ICAR-ATARI, Pune
DETAILS OF ANNUAL PROGRESS REPORT OF KVKs DURING 2020
(January 2020 to December 2020)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address with PIN code	Telephone		E mail	Website address & No. of visitors (hits)
Krishi Vigyan Kendra, Junagadh Agricultural University, Pipalia (Dhoraji)-360410, Dist: Rajkot, Gujarat	Office	FAX	kvkpipalia@jau.in	www.jau.in
	02824-292584			18869453

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

Address	Telephone		E mail	Website address
	Office	FAX		
Junagadh Agricultural University, Junagadh (Gujarat)	0285-2672080	0285-2672653	-	www.jau.in

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

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. N. B. Jadav	02824-292584	09924012649	dr_nbjadav@jau.in

1.4. Year of sanction: 16 Mar, 2012

1.5. Staff Position (as on 31 December, 2020)

				If Permanent, Please indicate			
Sl. No.	Sanctioned post	Name of the incumbent	Discipline	Current Pay Band	Current Grade Pay	Date of joining	If Temporary, pl. indicate the consolidated amount paid (Rs./month)
1.	Senior Scientist and Head	Dr. N. B. Jadav	Extension Education	37400-67000	9000	18.08.06	
2.	Subject Matter Specialist	S. V. Undhad	Plant Protection	15600-39100	6000	27.03.15	
3.	Subject Matter Specialist	Dr. V. S. Prajapati	Animal Husbandry	15600-39100	6000	01.04.15	
4.	Subject Matter Specialist	A.R Parmar	Horticulture	15600-39100	6000	17.01.17	
5.	Subject Matter Specialist	Dr. Mamta Kumari	Home Science	15600-39100	6000	01.04.13	
6.	Subject Matter Specialist	-	-	-	-	-	-
7.	Subject Matter Specialist	-	-	-	-	-	-
8.	Programme Assistant	P.D. Choudhry	M.Sc (Agri)	-	-	04.08.18	9300-34800 (38090)
9.	Computer Programmer	R. G. Panseriya	Com. Operator	9300-34800	4400	31.12.13	
10.	Farm Manager	K. D Choudhry	B.Sc.(Agri)	-	-	27.07.18	9300-34800 (38090)
11.	Accountant/Superintendent	K. G. Dhaduk	Accounting & Admins.	9300-34800	4400	12.06.13	
12.	Stenographer	K. R. Yadav	Steno	5200-20200	2400	01.12.14	

13.	Driver 1	Vacant	-	-	-	-	
14.	Driver 2	Vacant	-	-	-	-	
15.	Supporting staff 1	Vacant	-	-	-	-	
16.	Supporting staff 2	L.B. Chavda	-	5200-20200	1650	13.12.89	

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	-
2.	Under Demonstration Units	-
3.	Under Crops	16.00
4.	Horticulture	-
5.	Pond	-
6.	Others if any	4.00
	Total	**20.00**

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	-	-	-	-	-	-	-
2.	Farmers Hostel	-		-		-	-	-
3.	Staff Quarters (6)	-	-	-	-	-	-	-
4.	Demonstration Units (2)	-	-	-	-	-	-	-
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	-	-	-	-	-	-	-
9	ICT lab	-	-	-	-	-	-	-
10	Other	-	-	-	-	-	-	-
		-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep (Bolero)	2013	661107	70820	Working
Mahindra Tractor	2013	565000	-	Working
Mini Tractor (Mahindra)	2016	248000	-	Working

C) Equipments & AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
Cultivator (9 tine)	2013	19000	Working
Blade Harrow	2013	11500	Working
Automatic seed drill	2016-17	37619	Working
Mini tractor drawn spray pump	2016-17	69500	Working
Rotavator	2016-17	91245	Working
Reversible MB Plough	2016-17	37500	Working
Pusa STFR meter kit (WST-312P)	2016-17	80600	Working
Mrida parikshak soil testing mini lab	2016-17	90300	Working

1.8. Details of SAC meetings conducted in the year 2020

Date	Name and Designation of Participants	Salient Recommendations	Action taken
12/03/20	1) Dr. V.P. Chovatia, VC, JAU, Junagadh 2) Dr. B.K. Sagarka, DEE, JAU, Junagadh 3) Dr. D.S. Hirpara, Research Scientist, DFRS, JAU, Targhadia 4) Dr. H.C. Chhodvadia, Assoc. Ext Edn. JAU, Junagadh 5) Sh. P.T. Shiyani, DCF, Forest Deptt., Rajkot 6) Sh. M.B> Nashit, Deputy PD, ATMA, Rajkot 7) Sh. A.J. Chovatia, ADA, Dist Panchayat, Rajkot 8) Dr. Amit H. Patel, Deputy Manager, Rajkot dairy, Rajkot 9) Smt. Vasant Joshi, AIR, Rajkot 10) Sh. Atul Sharma, AIR, Rajkot 11) Nilesh M. Kaneria, ADH, Rajkot 12) Dr. G.K. Vora, Vet. Officer, Kuvavdva, Rajkot 13) Rita B. Vora, CEE, Jasdan, Rajkot 14) Dr. G.R. Sharma, Principal, Polytechnic Agri. Engg., Targhadia 15) Dr. B.B. Kabaria, Senior Scientist & Head, KVK, JAU, Targhadia 16) Dr. D.A. Saradava, Senior Scientist & Head, KVK, JAU, Morbi 17) Dr. J.H. Choudhary, SMS, KVK, JAU, Targhadia 18) Sh, D.P. Sanepara, SMS, KVK, JAU, Targhadia 19) Dr. M.M. Tajpara, SMS, KVK, JAU, Targhadia 20) Smt. H.A. Manvar, SMS (Home Science), KVK, JAU, Targhadia 21) Dr. M.K. Jadeja, SMS, KVK, JAU, Targhadia 22) Sh. S.R. Rathwa, A.O., KVK, JAU, Targhadia 23) Ms. Pinki Sharma, SMS, KVK, JAU, Pipalia 24) Sh. A.R. Parmar, SMS, KVK, JAU, Pipalia 25) Dr. V.S. Prajapati, SMS, KVK, JAU, Pipalia 26) Sh. S.V. Undhad, SMS, KVK, JAU, Pipalia 27) Leelaben Chaganbhai Lakhtaria, Progressive Farmer, Morbi 28) Babaria Bharatbhai Laljibhai, Progressive Farmer, Jetpur, Rajkot 29) Rameshbhai B. Amipara, Progressive Farmer, Jashapar, Rajkot 30) Donga Dhirubhai Gobarbhai, Progressive Farmer, Jashapar, Rajkot 31) Ashwinbhai Trada, Progressive Farmer, Jamkandorna, Rajkot 32) Dr. N.B. Jadav, Senior Scientist & Head, KVK, JAU, Pipalia	1. Month-wise training should be shown clearly in Action Plan instead of quarterly	Suggestion accepted and incorporated in next action plan report
		2. To measure horizontal spread of the training given and accountability of frontline demonstrations in terms of money	Suggestion accepted and frontline demonstration results shown in terms of money
		3. Find out effect and impact of training / campaign in KVK operational village	Suggestions accepted and training / campaign impact study incorporated in SAC report
		4. Increase number of Agro Advisory Services (Text message)	Suggestions accepted and incorporated
		5. Soil and water sample testing is compulsory to at least all FLD beneficiaries in all subject. Increase soil and water samples in KVK operational villages	Suggestions accepted
		6. To involve cotton ginners in training on pink bollworm management	Suggestions accepted, online training conducted with cotton ginners
		7. Increase number of good research paper with high NAAS rated journal for ICAR ranking	Four research paper published in above 5 NAAS rated journals
		8. To create awareness and encourage farmers for registration of local variety under PPV&FRA	Suggestions accepted and incorporated
		9. To organize a special training programme to selected progressive farmers from different villages for effective horizontal spread of the technology.	Suggestions accepted and three training (Plant protection, Horticulture and Animal husbandry) conducted

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	Groundnut-Wheat/Coriander, Cumin, Garlic, Cotton-Summer Groundnut/Pulse crop/Sesame
2	Live stock
3	Farm waste management specially cotton stalk
4	Fruit and vegetable preservation

5	Value addition in Groundnut and wheat

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
Zone– VI	North Saurashtra	The influence area of North Saurashtra Agro climatic Zone is spread among five districts (35.2 lakh Ha). Out of total area 73.40 per cent area falls under arid and semi-arid region. The soils of this zone are shallow to moderately deep. The soils of Rajkot district are medium black and low in their availability of nitrogen while medium phosphorus and high in available potash. Monsoon commences usually by the end of June and withdraws by middle of September. Average annual rainfall of districts is 1141.2 mm.
Zone-VII	South Saurashtra	The influence area of South Saurashtra Agroclimatic Zone is spread among four districts. (Part of Rajkot, Bhavnagar, Amreli and whole district of Junagadh). Type of soil is shallow medium black calcareous soils. Soil are medium to high in nitrogen content, phosphorus low and potash high. Average annual rainfall of the zone is 625-750 mm.

b) Topography

S. No.	Agro ecological situation	Characteristics
1	Situation No. 2	Medium Black Soil with 500-600 mm Rainfall
2	Situation No.4	Shallow Black Soil with 500-600 mm Rainfall
3	-	Shallow medium black soil with 620-750 mm Rainfall

2.3 Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Clay to clay loam	Medium black calcareous soil	
2	Sandy clay loam to clayey	Well drained soil with rapid permeability	
3	Sandy to sandy 10 cm calcareous	Well drained soils	

2.4. Area, Production and Productivity of major crops cultivated in the area of jurisdiction of KVK (2019)

S. No	Crop	Area (ha)	Production (MT)	Productivity (q/ha)
1	Groundnut (Kharif + summer)	150591	592346	39.33
2	Sesamum	908	850	9.36
3	Castor	5365	13966	26.03
4	Cotton	167990	308507	18.36
5	Wheat	87807	347010	39.52
6	Green gram	765	680	8.89
7	Coriander	9098	13206	14.52
8	Cumin	14189	13787	9.72
9	Garlic	3856	26420	68.52
10	Onion	6070	165147	272.07
11	Chickpea	18494	42856	23.17

Source: District agriculture department.

2.5. Weather data (2020)

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
April	28	-	-	-	-
May	9	-	-	-	-
June	107	-	-	-	-
July	236	-	-	-	-
August	831	-	-	-	-
September	226	-	-	-	-
October	64.3	-	-	-	-
November	-	-	-	-	-
December	-	-	-	-	-
Total	**1501.3**	-	-	-	-

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

Category	Population	Production	Productivity
Cattle			
Crossbred			
Indigenous	515003	1150 lit /lactation	4.60 lit / day
Buffalo	430795	1390	5.26 lit/day
Sheep	192994	-	-
Goats	171515	-	-
Pigs	-	-	-
Crossbred	-	-	-
Indigenous	-	-	-
Rabbits	212	-	-
Poultry			
Hens	9988	100 eggs /year	-
Desi	13527	140 eggs /year	-
Category			
Fish (Reservoir)			

2.7. Details of Operational area / Villages

Taluka / Block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Dhoraji	Nani Parabadi	Groundnut, Cotton, Sesamum, Wheat, Cumin, Coriander, Chickpea, Garlic and onion. Enterprise are dairy business, vermi composting	- Infestation of pink bollworm in cotton -Sucking pest in all crops - Stem rot disease in groundnut -Coriander & Chickpea wilt - Less area under horticultural crops -Infertility in livestock	- IPM, IDM and INM in major crops - Motivate the farmers for horticulture crop - To create awareness for value addition - Popularization of MIS - Create awareness of artificial insemination
	Patanvav			
Jetpur	Amrapur			
	Mandlikpur			
Jamkadorana	Jasapar			
	Nani Dhudhivadar			
	Sanala			
Upleta	Nagvadar			
	Talangana			
Gondal	Daliya			
	Shemla			
	Bhojpara			

2.8. Priority thrust areas:

S. No.	Crop/Enterprise	Thrust Area
1.	Groundnut, Sesame etc.	Increase productivity of crops by adopting recommended practices in integrated pest management & IDM (Management of white grub and stem rot)
2.	Cotton	-Integrated pest management (management of pink bollworm in Bt. cotton) & INM in cotton -Recycling of cotton stalk (Popularizing of cotton shredder)
3.	Coriander, Sesame, etc.	Increasing the productivity of major crops by adopting recommended technologies, newly release variety and to create awareness of value addition
4.	Cumin	Integrated disease and pest management
5.	Farm waste	Recycling of farm waste through composting, Vermicomposting, green manuring, etc.
6.	Micro irrigation	Efficient use of water by micro irrigation system, water harvesting structure, and water conservation techniques
7.	Farm Women	Farm women empowerment by training in value addition, handicrafts, and small scale enterprises
8.	Horticulture(Papaya, Pomegranate, Chilly etc.)	Postharvest technology and value addition in fruit and vegetable, INM, canopy management in orchard
9.	Animal Husbandry	Increasing the productivity of livestock animals by adopting scientific practices and to create awareness about clean milk production

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
5	5	15 (30 Animals)	15 (30 Animals)	65	65	215 (30 animals)	215 (50 animals)

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
61	63	1755	2016	2823	3791	8567	7067

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
230	95.321 (excluding wheat)	1000	Nil

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
Nil	Nil	2000	860

3.1. B. Operational areas details during the year 2020

S.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Intervention (OFT, FLD, Training, extension activity etc.)*
1	Groundnut	White grub infestation	1500 ha	Nani Parabadi Patanvav Amrapur Mandlikpur Jasapar Nani Dhudhivadar Sanala Nagvadar	OFT conducted -1 FLDs – 10 No. Training and, Diagnostic visit
2	Groundnut	Low yield and infestation of stem rot	700 ha		FLDs-10 (GJG-22) CFLD FLDs : 25 No. (GJG-22) Training, Advisory service
3	Groundnut	Stem rot infestation	1200 ha		FLDs : 10 Training, Diagnostic visit
4	Cotton	Pink Bollworm Infestation	4000 ha		FLDs : 10 (MDP Tube) Training, Diagnostic visit, Campaign
5	Cotton	Nutrient deficiency	1300 ha		FLDs : 10 6Training, Advisory service
6	Wheat	Lack of knowledge about INM and Biofert.	2200 ha		OFT-1, FLDs:10

				Talangana	Training, Advisory service
7	Cumin	Wilt incidence in cumin		Daliya	FLDs : 10 Training, Advisory service
8	Chick pea	Low yield of chick pea		Shemla	FLDs : 10 (GG-5) Training, Advisory Service
9	Tomato	Low Yield	700ha	Bhojpara	OFT -1 Training, Diagnostic visit
10	Brinjal	Low Yield	600ha		FLD-10 Brinjal (GRB-5) Training, Advisory service
11	Tomato	Low Yield	300ha		FLD-10 Training, Advisory Service
12	Brinjal	Low yield	450ha		FLD-10 Training and advisory service
13	Nutritional security	Unaware about the concept of kitchen gardening to combat balanced Nutrition with easy availability	0.5 ha		FLDs : 50 Training
14	Nutritional Security	Less knowledge regarding the importance of solar cooker	-		OFT :1 Training
15	Cattle	Lack of knowledge about nutrition management in cattle	-		OFT:1 Training, Diagnostic visit Advisory Service
16	Cattle	Lack of knowledge about nutrition management in cattle	-		FLDs: 30 (calcium supplement, Bypass protein & fat), Training

* Support with problem-cause and interventions diagram

3.2. Technology Assessment (Kharif 2020, Rabi 2019-20, Summer 2020)

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	1				1					2
Varietal Evaluation										
Integrated Pest Management		1			1					2
Integrated Crop Management										
Integrated Disease Management					1					1
Small Scale Income Generation Enterprises										
Weed Management										
Resource Conservation Technology										
Farm Machineries										
Integrated Farming System										
Seed / Plant production										
Value addition									1	1
Drudgery Reduction										
Storage Technique										
Mushroom cultivation										

Total	1	1			3				1	6

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

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

B. Achievements on technologies Assessed

B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Integrated Nutrient Management	Wheat	Use of Biofertilizer	3	3	1.5
		Integrated Nutrient Management	3	3	1.2
	Garlic	Integrated Nutrient Management	3	3	1.2
Varietal Evaluation					
Integrated Pest Management	Groundnut	Integrated Pest Management	3	3	1.5
Integrated Crop Management					
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries					

Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction		Solar cooker	3	3	
Storage Technique					
Mushroom cultivation					
Total			12	12	4.2

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				
Disease management				
Value addition				
Production and management				
Feed and fodder	Gir cattle & Buffalo	Nutritional management of milch animals	30	30 (animals)
Small scale income generating enterprises				
Total			30	30

C.1. Results of Technologies Assessed

1) Results of On Farm Trial-1

Crop/ enterprise	Farming situation	**Problem definition**	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Groundnut	Irrigated	Low yield from groundnut cultivation	Assessment of management of white grub in groundnut	3		Yield & white grub infestation, B:C ratio, farmer's perception	Yield	18 % of yield increase compare to farmers practices	Less incidence of white grub compare to control	nil	nil

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18

Technology option 1 (Farmer's practice): Chloropyriphos @ 4 lit./ha at the time of attack	Junagadh Agricultural University, Junagadh	2292	Kg/ha	53773	1:1.81
Technology option 2: Seed treatment with Chloropyriphos @ 25 ml/kg; Application of Chloropyriphos @ 4 lit./ha; Spraying the trees on bund with lambda cyalothrin 1.5 ml/1 lit water		2708	Kg/ha	76385	1:2.16
Technology option 3: Application of carbofuran 3G@ 40kg/ha at time of sowing; Application of UREA @ 50 kg/ha with irrigation water at time of infestation.		2500	Kg/ha	65710	1:2.00

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

1. Title of Technology Assessed: - Management of white grub in groundnut
2. Problem Definition: - Low yield due to white grub infestation in groundnut
3. Details of technologies selected for assessment: - 1. Seed treatment with Chloropyriphos @ 25 ml/kg; 2. Application of Chloropyriphos @ 4 lit./ha; 3. Spraying the trees on bund with lambda cyalothrin 1.5 ml/1 lit water
4. Source of technology; - Junagadh Agricultural university
5. Production system and thematic area: - Integrated pest management
6. Performance of the Technology with performance indicators: - Reduce incidence of white grub pest infestation with higher yield
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: - Low incidence of white grub infestation and higher yield with good quality pod and lower cost technology
8. Final recommendation for micro level situation: - Seed of groundnut treated with Chlorpyriphos @ 25 ml/kg seed at the time of sowing was maximum reduce white grub infestation and gave higher yield
9. Constraints identified and feedback for research and developmental departments: - nil
10. Process of farmer's participation and their reaction: - white grub infestation was serious problem from 3 to 5 years in area. The farmers already search about how to manage this pest in groundnut

2) Results of On Farm Trial - 2

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Wheat	Irrigated	Less use of bio fertilizer and more production cost	Response of Bio fertilizers to wheat yield	3		Yield & white grub infestation, B:C ratio, farmer's perception	Yield	6.78% of yield increase compare to farmers practices	Reduce cost of cultivation with reduce chemical fertilizers	nil	nil

Contd...

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Application of only DAP & Urea in different doses **(Farmers Practice)**	Junagadh Agricultural University, Junagadh	4250	Qt/ha	12251	1:1.22
120-60-0 NPK kg/ha **(Recommended Practice)**		4625	Qt/ha	19694	1:1.36
Application of Azatobacter& PSB culture (250g/10kg) + 75% of RDF **(Intervention)**		4833	Qt/ha	24030	1:1.44

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

1 Title of Technology Assessed :- Response of Bio fertilizers to wheat yield

2 Problem Definition :- Less use of bio fertilizer and more production cost

3 Details of technologies selected for assessment :- Application of Azatobacter & PSB culture (250g/10kg) + 75% of RDF

4 Source of technology ;- Junagadh Agricultural university

5 Production system and thematic area :- Integrated nutrient management

6 Performance of the Technology with performance indicators :- Reduce cost of chemical fertilizer and increase fertility level of soil

7 Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques :- Less cost of production through use of Bio fertilizers and increase fertility of soil

8 Final recommendation for micro level situation :- Use of Bio fertilizers in wheat crop which reduce cost of chemical fertilizers and increase soil fertility

9 Constraints identified and feedback for research and developmental departments :- need of heat and chemical resistant Bio fertilizers for future

10 Process of farmers participation and their reaction :- we have selected those farmers whose already use only chemical fertilizers in high rate. They are very well satisfied after use of Bio fertilizers.

3) Results of On Farm Trial - 3

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Animal Husbandry	-	Lack of knowledge about bypass fat feeding technology and more production cost	Effect of Concentrate and bypass fat feeding on milk production in Gir cattle	1	1	Milk production, B:C ratio, farmer's perception	Milk production	10.66% of yield increase compare to farmers practices	Reduce post calving problem and increase the milk production	nil	nil

Contd….

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio

13	14	15	16	17	18
T1=Routine Farmer Practice (10 kg dry fodder+15 kg green fodder+Groundnut cake)	Navsari Agricultural University, Junagadh	1803	Milk prod./lactation	10891	1:1.09
T2= T1+Concentrate (5 Kg/animal/day) (Recommended practice)		2195	Milk prod./lactation	14342	1:2.56
T3=T1+T2+Bypass Fat (50 gm/cow/day) (Intervention)		2403	Milk prod./lactation	16356	1:2.90

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

1. Title of Technology Assessed :- Effect of Concentrate and bypass fat feeding on milk production in Gir cattle
2. Problem Definition :- Lack of knowledge about bypass fat feeding technology and more production cost
3. Details of technologies selected for assessment :- Bypass fat feeding
4. Source of technology ;- Navsari Agricultural university
5. Production system and thematic area :- Nutrition management
6. Performance of the Technology with performance indicators :- Farmers aware about bypass fat feeding to minimize the post calving problem and increase milk production
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques :- low cost of bypass fat feeding and increase milk production by nutrition management
8. Final recommendation for micro level situation :- More uses of bypass fat feeding in dairy animal to help increase milk production and finally farmers get more net return.
9. Constraints identified and feedback for research and developmental departments :- Nil
10. Process of farmers participation and their reaction :- Farmers had benefitted via more use of bypass fat feeding and spread the knowledge surrounding farmers who actively engage the animal husbandry practices.

4) Results of On Farm Trial - 4

Crop/ enterprise	Farming situation	**Problem definition**	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Garlic	Irrigated	Less use of micronutrients and more production cost	Assessment of micro nutrient in Garlic crop	3		Yield & B:C ratio, farmer's perception	Yield	21 % of yield increase compare to farmers practices	Reduce cost of cultivation with reduce chemical fertilizers	nil	Nil

Contd...

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Application of only DAP & Urea in different doses ***(Farmers Practice)***	Junagadh Agricultural University, Junagadh	7750	Qt/ha	128750	1:2.72
RDF 50-50-50 N-P-Kkg/ha ***(Recommended Practice)***		8125	Qt/ha	151250	1:3.16
Application of micronutrient Grade-IV @1% at 60,75,90 DAS with RDF		9375	Qt/ha	200643	1:3.84

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

1. Title of Technology Assessed :- Assessment of micronutrient in garlic
2. Problem Definition :- Low yield due to micronutrient deficiency
3. Details of technologies selected for assessment :- Apply foliar spray of multi-micronutrient formulation Grade-IV @1% at 60,75 and 90DAS with RDF
4. Source of technology ;- Junagadh Agricultural university
5. Production system and thematic area :- Integrated nutrient management
6. Performance of the Technology with performance indicators :- Reduce cost of chemical fertilizer and increase fertility level of soil
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques :- Less cost of production through use of micronutrient and increase fertility of soil
8. Final recommendation for micro level situation :- Use of micronutrient in garlic crop with RDF which reduce cost of chemical fertilizers and increase soil fertility
9. Constraints identified and feedback for research and developmental departments :- need awareness about use of mix micronutrients
10. Process of farmers participation and their reaction :- we have selected those farmers whose already use only chemical fertilizers in high rate. They are very well satisfied after use of mix micronutrients.

5) Results of On Farm Trial - 5

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Nutritional Security	-	Less knowledge regarding the importance of solar cooker	Comparison of solar Cooker with traditional cooking system	3	-	Time consumption, fuel consumption, cost saving & sensory evaluation	See table below	0% fuel consumption with highest cost efficiency	Effective in saving cost & fuel with nutritious food	nil	nil

Contd...

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Preparation through traditional method (firewood)	-	-	-	-	-
Preparation by LPG gas		-	-	-	-
Preparation by solar cooker		-	-	-	-

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

1 Title of Technology Assessed: Comparison of solar Cooker with traditional cooking system

2 Problem Definition: Lack of knowledge about solar cooker and its advantages

3 Details of technologies selected for assessment:

Three Technologies Assessed were:1) Preparation of selected food items through traditional method (firewood)

2) Preparation by LPG gas

3) Preparation by solar cooker

4 Source of technology:

5 Production system and thematic area: Drudgery Reduction

6 Performance of the Technology with performance indicators

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

Sr. No.	Item	Boiled Rice			Salted Groundnut			Sweet Potato		
	Observation	**Traditional Method (Firewood)**	**Preparation by Roasting (Gas)**	**Solar Cooker**	**Traditional Method (Firewood)**	**Preparation by Roasting (Gas)**	**Solar Cooker**	**Traditional Method (Firewood)**	**Preparation by Roasting (Gas)**	**Solar Cooker**
1	Time Consumption (minute)	35	15	50	60	30	180	20	60	120
2	Fuel Consumption (g)	190	60.	-	410	100	-	350	210	-
3	Cost Saving (%)	-	1.86	7.01	-	10.4	26.9	-	43.70	73.9
4	Organo-leptic test									
a	Taste	5	5	6	4	6	7	4	4	6
b	Consistency	4	5	7	3	5	8	3	4	6
d	Overall Acceptance	-	-	√	-	-	√	-	-	√

8 Final recommendations for micro level situation: Solar cooker could be an important tool in reducing drudgery and also helps in nutritional security as it retains the nutrients intact within the food due to natural way of cooking food with zero fuel consumption and cost effective.

9 Constraints identified and feedback for research and developmental departments: Its function limits during cloudy and rainy season.

10 Process of farmers' participation and their reaction: The overall testing were conducted at their household/farm level. They will be doing all the preparations and instructions were given by the SMS/Scientist. In this way they will learn how to operate the technology. The farm women had shown positive attitude towards solar cooker and they find it a convenient and beneficial product from drudgery and economic point of view.

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 2020 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	Groundnut*	IPM	IPM	FLDs, Field days, Group discussion, Extension lit	16	80	56
2	Groundnut	IDM	Trichoderma	FLDs, Field days, Group discussion, Extension lit	25	247	87
3.	Sesame	Varietal	GT-5	FLDs, Field days, Group discussion	12	65	70
4.	Chick pea	Varietal	GG-5	FLDs, Personal visit, Training,	20	180	105
5.	Wheat	INM	Azoto + PSB	FLDs, Extension literature, Training	11	34	17
6.	Cumin	IDM	Trichoderma	FLDs, Training	9	46	19
7.	Cotton	INM	INM	FLDs, Field days, Group discussion	22	187	112
8.	Cotton	IPM	IPM	FLDs, Personal visit, Training, Extension lit.	5	45	10
9	Onion	Varietal	GJRO-11	FLDs, Personal visit, Training, Extension lit.	4	4	1.6
10	Brinjal	Varietal	GJLB-4	FLDs, Field days, Group discussion	5	5	2
11	Brinjal	Varietal	GJHB-4	FLDs, Field days, Group discussion	5	5	2
12	Okra	Varietal	GJOH-4	FLDs, Personal visit, Training,	3	3	1.2
13	Papaya	Varietal	GJP-1	FLDs, Personal visit, Training,	3	3	1.2
14	Animal Husbandry	Feed Management	Calcium supplement	FLDs, Personal visit, Training,	16	128	5
15	Kitchen Gardening	Household food security	Kitchen Gardening	FLDs, Personal visit, Training,	6	48	4

B. Details of FLDs implemented during 2020 **(Kharif 2020, Rabi 2019-20, Summer 2020)** (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops**.)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Groundnut	Variety	GG-22	Kharif2020	1.5	1.5	2	8	10	-
2	Groundnut	IDM	Trichoderma	Kharif 2020	4	4	2	8	10	-
3	Groundnut	IPM	IPM	Kharif 2020	4	4	2	8	10	
4	Sesame	Variety	GT-5	Summer 20	4	4	2	8	10	-
5	Chickpea	Varietal	GG-5	Rabi 2020	4	4	2	8	10	-
6	Wheat	INM	Lok - 1	Rabi 2020	5	5	3	7	10	-
7	Tomato	INM	Local	Kharif-20	4	4	2	8	10	-
8	Brinjal	IPM	Local	Kharif-20	4	4	2	8	10	-
9	Tomato	INM	Local	Rabi-20	4	4	2	8	10	-

10	Brinjal	Varietal	GRB-5	Rabi-20	4	4	2	8	10	
11	Cumin	IDM	GC-4	Rabi 2020	4	4	2	8	10	-
12	Cotton	INM	INM	Kharif 2020	4	4	2	8	10	-
13	Cotton	IPM	IPM	Kharif 2020	10	10	2	8	10	
14	Cattle	Feed Management	Calcium	2020	10	10	4	6	10	-
15	Cattle	Nutrient mgt.	Bypass Protein	2020	-	-	4	16	20	
16	Cattle	Nutrient mgt.	Bypass fat	2020	-	-	5	15	20	
17	Vegetable Crops	Household food security	Kitchen Gardening	Kharif2020	0.5	0.5	10	40	50	-

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					
Groundnut	Kharif 20	Rainfed	MB	M	M	H	Cotton	5-10/6/20	15-25/11/20	1501	44
Groundnut	Kharif 20	Rainfed	MB	M	M	H	Wheat	5-10/6/20	15-25/11/20	1501	44
Groundnut	Kharif 20	Rainfed	MB	M	M	H	Wheat	5-10/6/20	15-25/11/20	1501	44
Sesame	Summer 20	Irrigated	MB	M	M	H	Cotton	15-20/2/21	20-25/5/21	1501	44
Chickpea	Rabi 20	Irrigated	MB	M	M	H	Groundnut	10-15/11/20	10-20/1/21	1501	44
Wheat	Rabi 20	Irrigated	MB	M	M	H	Groundnut	10-15/11/20	10-20/1/21	1501	44
Tomato	Kharif-20	Irrigated	MB	M	M	H	Wheat	15/7/20	15/11/20	1501	44
Brinjal	Kharif-20	Irrigated	MB	M	M	H	Wheat	11/7/20	12/11/20	1501	44
Tomato	Rabi-20	Irrigated	MB	M	M	H	Groundnut	12/9-12/10/20	15/11-15/12/20	1501	44
Brinjal	Rabi-20	Irrigated	MB	M	M	H	Groundnut	12/9-12/10/20	15/11-15/12/20	1501	44
Cumin	Rabi 20	Irrigated	MB	M	M	H	Groundnut	10-15/11/20	10-20/1/21	1501	44
Cotton	Kharif 20	Rainfed	MB	M	M	H	Cotton	5-10/6/20	15/1/21-15/2/21	1501	44
Cotton	Kharif 20	Rainfed	MB	M	M	H	Cotton	5-10/6/20	15/1/21-15/2/21	1501	44
Vegetable Crops	Kharif 20	Irrigated	MB	M	M	H	-	15/7/20	17/11/20	1501	44

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Application of chlorpyriphos 20-25 ml /kg as a seed treatment of groundnut seed reduce infestation of white grub (Very less white grub infestation)
2	GJG-22 variety gives higher yield as compare to GG-20 and less infestation of stem rot as compare to other variety in kharif season
3	Application of Trichoderma in Groundnut crop reduce infestation of stem rot and increase yield
4	Integrated approach for management of pink boll worm i.e. MDP tube and two or three spray of Beauveria reduce incidence of pink boll worm
5	Application of Azotobactor and PSB culture reduce cost of chemical fertilizer and increase yield
6	Application of biofertilizer reduce the cost of chemical fertilizer and increase yield
7	Application of Azotobactor and PSB culture reduced the cost of chemical fertilizers and increase yield
8	Application of trichoderma with castor cake reduce wilt in cumin and increase yield
9	Less incidence of wilt in GG-5 var of chick pea and higher yield as compare to other variety
10	G.T-5 var. Bold and white seeded and higher yield
11	Application of micro nutrient Grade -4 reduce nutrient deficiency and increase yield
12	MDP tube in Brinjal field control the shoot and fruit borer
13	GRB-5 Variety tolerant against little leaf disease and higher yield

Farmers' reactions on specific technologies

S. No	Feed Back
1	Application of micro nutrient Grade -4 and good crop health
2	Application of Trichoderma in Groundnut crop was control stem rot with less cost
3	Application of trichoderma with castor cake in cumin gave better result in wilt of cumin with less cost
4	G.T-5 var. of chickpea give higher yield
5	Increase milk production of animal and overall improve animal health
6	Increase milk production of animal and reduction of inter calving period
7	Increase milk production of animal and reduce the metabolic disorder in animal
8	Nutritional enrichment with high nutritious and tasty low cost diet with reducing drudgery of women

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	12	-	283	-
2	Farmers Training	16	-	480	-
3	Media coverage	-	-	-	-
4	Training for extension functionaries	-	-	-	-

C. Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)	% Increase in yield	Economics of demonstration (Rs./ha)	Economics of check (Rs./ha)

						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Groundnut	Variety Introduction		GG-22	10	4	31.3	21.3	26.1	23.3	12.37	68365	137809	69444	2.015	65940	122643	56703	1.85
Groundnut	IDM		GG-20	10	4	37.5	17.5	23.6	20.0	18.13	65652	124621	58969	1.89	65840	105500	39660	1.602
Groundnut	IPM	Chlorpyriphos = 1.5 lit	GG-20	10	4	31.3	17.5	23.5	19.6	19.75	65052	123962	58910	1.90	66240	103521	37281	1.56
Sesamum	Variety Introduction	GT-5=2 Kg	GT-5	10	4			11.1	9.4	18.09	51716	97344	45628	1.88	51226	82031	30805	1.60

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Frontline demonstration on pulse crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Chickpea	Variety Introduction	GG-5=25 Kg	GG-5	10	4			26.5	21.8	21.56	41482	129850	88368	3.13	39732	106575	66843	2.68

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

FLD on Other crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average												
Cereals																			
Wheat	INM	Azotobacter = 1.0 lit, PSB Culture = 1.0 lit	10	4			47.9	44.1	8.62			57032	83781	26749	1.46	58432	77218	18786	1.32
Wheat Timely sown																			
Wheat Late Sown																			
Vegetables																			
Tomato (Kharif-20)	**INM**		10	4	287	256.3	272	248.8	9.35			61202	216937	155330	1:3.33	65000	200062	135062	1:2.87
Brinjal (Kharif-20)	IPM		10	4	143.8	125	134.8	113	19.25			52750	140250	87500	1:2.55	55000	124500	69500 2.66	1:2.05

Brinjal (Rabi-19)		IPM	10	4	393.8	360	380	331.3	18.84			52750	134750	82000	1:2.55	55000	113000	58000	1:2.05
Tomato (Rabi-19)	INM		10	4	96.3	75.0	85.8	77.5	21.20			61202	204000	142797	1:3.33	65000	186562	121562	1:2.94
Coriander	IDM	Trichoderma = 2.0 kg, Castor cake = 50 kg	10	4			10.5	8.6	22.09			54562	147000	92438	2.69	55712	120750	65038	2.167
Flower crops																			
Marigold																			
Bela																			
Tuberose																			
Gladiolus																			
Fruit crops																			
Mango																			
Strawberry																			
Guava																			
Banana																			
Papaya																			
Muskmelon																			
Watermelon																			
Any other (Pl. specify)																			
Spices & condiments																			
Ginger																			
Garlic																			
Turmeric																			
Commercial Crops																			
Cotton	IPM	MDP Pheromone tube = 200 gm	10	4			23.9	21.9	9.13			84769	137281	52512	1.62	85059	125781	40722	1.478
Cotton	INM	Azotobacter = 1.0 lit, PSB	10	4			24.4	22.6	7.96			82859	140156	57297	1.69	84359	130093	45734	1.54

		Culture = 1.0 lit																	
Medicinal & aromatic plants																			
Mentholmen t																			
Fodder Crops																			
Sorghum (F)																			
Cowpea (F)																			

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Frontline Demonstration on Nutri cereals

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

FLD on Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of Units (Animal/ Poultry/ Birds, etc)	Major parameters		% 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)
Cattle	Feed management	Bypass Protein	10	10	7.12	6.25	4.85	-	-	53987	77529	23542	1.43	51267	70320	19053	1.37
	Feed management	Bypass Fat	10	10	6.45	6.21	5.34	-	-	58132	79231	21099	1.36	54245	71456	17211	1.31
Buffalo	Feed management	Calcium supplementation	10	10	6.79	6.50	3.78	-	-	54733	74890	20157	1.36	50987	66354	15367	1.30

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

FLD on Fisheries

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

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

FLD on Other enterprises

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

FLD on Women Empowerment

Category	Name of technology	No. of demonstrations	Name of observations	Demonstration	Check
Drudgery Reduction	Milking revolving stool	5	3	Awaited	awaited

FLD on Farm Implements and Machinery

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

FLD on Other Enterprise: Kitchen Gardening

Category and Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units	Yield (Kg)		% change in yield	Other parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Kitchen gardening	Nutrition Security	Household food security	50		214	207.2	3.87	-	-	115070	202340	95870	1.75	118450	210380	86930	1.79

FLD on Demonstration details on crop hybrids

Crop				Area	Yield (q/ha)		Economics of demonstration (Rs./ha)

	technology demonstrated	Hybrid Variety	No. of Farmers	(ha)	Demo			Check	% Increase in yield	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average						
Oilseed crop													
Pulse crop													
Cereal crop													
Vegetable crop													
Fruit crop													
Other (specify)													

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

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

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservatioin										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
II Horticulture										
a) Vegetable Crops										
Production of low value and high volume crops										
Off-season vegetables	1	24	4	28	1	1	2	25	5	30
Nursery raising	1	25	5	30	0	0	0	25	5	30
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)	**2**	**49**	**9**	**58**	**1**	**1**	**2**	**50**	**10**	**60**
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	1	23	5	28	2	0	2	25	5	30
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards	1	26	3	29	0	2	2	26	5	31
Plant propagation techniques										
Others (pl specify)										
Total (b)	**2**	**49**	**8**	**57**	**2**	**2**	**4**	**51**	**10**	**61**
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices										
Production and Management technology	1	25	5	30	0	0	0	25	5	30
Processing and value addition										
Others (pl specify)										
Total (f)	**1**	**25**	**5**	**30**	**0**	**0**	**0**	**25**	**5**	**30**

g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GT (a-g)	**5**	**123**	**22**	**145**	**3**	**3**	**6**	**126**	**25**	**151**
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IV Livestock Production and Management										
Dairy Management	2	30	17	47	0	2	2	30	19	49
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management	2	32	20	52	2	0	2	34	20	54
Feed & fodder technology	2	30	29	59	1	0	1	31	29	60
Production of quality animal products										
Others (pl specify)										
Total	**6**	**92**	**66**	**158**	**3**	**2**	**5**	**95**	**68**	**163**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet	1	0	19	19	0	1	1	0	20	20
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	2	15	38	53	0	4	4	15	42	57
Women empowerment	1	0	23	23	0	2	2	0	25	25
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)										
Total	**4**	**15**	**61**	**76**	**0**	**6**	**6**	**15**	**67**	**82**
VI Agril. Engineering										
Farm Machinary and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
VII Plant Protection										
Integrated Pest Management	3	111	22	133	2	1	3	113	23	136
Integrated Disease Management	2	89	18	107	1	1	2	90	19	109
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl specify)										

Total	**5**	**200**	**40**	**240**	**3**	**2**	**5**	**203**	**42**	**245**
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
X CapacityBuilding and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs	1	38	0	38	0	0	0	38	0	38
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GRAND TOTAL	**21**	**468**	**208**	**676**	**9**	**14**	**23**	**477**	**222**	**699**

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservatioin										

Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	1	20	0	20	1	0	1	21	0	21
Others (pl specify)										
Total (a)	**1**	**20**	**0**	**20**	**1**	**0**	**1**	**21**	**0**	**21**
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards	1	15	5	20	0	0	0	15	5	20
Rejuvenation of old orchards	1	19	2	21	0	2	2	19	4	23
Export potential fruits										
Micro irrigation systems of orchards	1	22	0	22	1	0	1	23	0	23
Plant propagation techniques										
Others (pl specify)										
Total (b)	**3**	**56**	**7**	**63**	**1**	**2**	**3**	**57**	**9**	**66**
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
d) Plantation crops										
Production and Management technology	1	17	4	21	0	1	1	17	5	22
Processing and value addition										
Others (pl specify)										
Total (d)	**1**	**17**	**4**	**21**	**0**	**1**	**1**	**17**	**5**	**22**
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition	1	17	6	23	0	0	0	17	6	23
Others (pl specify)										
Total (g)	**1**	**17**	**6**	**23**	**0**	**0**	**0**	**17**	**6**	**23**
GT (a-g)										
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

IV Livestock Production and Management										
Dairy Management	2	26	28	54	1	2	3	27	30	57
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management	2	26	25	51	1	0	1	27	25	52
Feed & fodder technology	2	25	24	49	3	1	4	28	25	53
Production of quality animal products	1	24	24	48	1	1	2	25	25	50
Others (pl specify)										
Total	**7**	**101**	**101**	**202**	**6**	**4**	**10**	**107**	**105**	**212**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	0	30	30	0	0	0	0	30	30
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing	1	0	23	23	0	1	1	0	24	24
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	2	12	47	59	0	3	3	12	50	62
Women empowerment										
Location specific drudgery reduction technologies	1	5	29	34	0	1	1	5	30	35
Rural Crafts										
Women and child care										
Others (pl specify)										
Total	**5**	**17**	**129**	**146**	**0**	**5**	**5**	**17**	**134**	**151**
VI Agril. Engineering										
Farm Machinary and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
VII Plant Protection										
Integrated Pest Management	4	106	27	133	4	1	5	110	28	138
Integrated Disease Management	3	48	19	67	2	0	2	50	19	69
Bio-control of pests and diseases	1	30	4	34	0	1	1	30	5	35
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	**8**	**184**	**50**	**234**	**6**	**2**	**8**	**190**	**52**	**242**
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IX Production of Inputs at site										
Seed Production										

Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths	1	25	4	29	0	0	0	25	4	29
WTO and IPR issues										
Others (pl specify)										
Total	**1**	**25**	**4**	**29**	**0**	**0**	**0**	**25**	**4**	**29**
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GRAND TOTAL	**27**	**437**	**301**	**738**	**14**	**14**	**28**	**451**	**315**	**766**

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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservatioin										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
II Horticulture										
a) Vegetable Crops										
Production of low value and high volume crops										
Off-season vegetables	1	24	4	28	1	1	2	25	5	30
Nursery raising	1	25	5	30	0	0	0	25	5	30
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	1	20	0	20	1	0	1	21	0	21
Others (pl specify)										
Total (a)	**3**	**69**	**9**	**78**	**2**	**1**	**3**	**71**	**10**	**81**
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	1	23	5	28	2	0	2	25	5	30
Management of young plants/orchards	1	15	5	20	0	0	0	15	5	20

Rejuvenation of old orchards	1	19	2	21	0	2	2	19	4	23
Export potential fruits										
Micro irrigation systems of orchards	2	48	3	51	1	2	3	49	5	54
Plant propagation techniques										
Others (pl specify)										
Total (b)	**5**	**105**	**15**	**120**	**3**	**4**	**7**	**108**	**19**	**127**
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
d) Plantation crops										
Production and Management technology	1	17	4	21	0	1	1	17	5	22
Processing and value addition										
Others (pl specify)										
Total (d)	**1**	**17**	**4**	**21**	**0**	**1**	**1**	**17**	**5**	**22**
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices										
Production and Management technology	1	25	5	30	0	0	0	25	5	30
Processing and value addition										
Others (pl specify)										
Total (f)	**1**	**25**	**5**	**30**	**0**	**0**	**0**	**25**	**5**	**30**
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post-harvest technology and value addition	1	17	6	23	0	0	0	17	6	23
Others (pl specify)										
Total (g)	**1**	**17**	**6**	**23**	**0**	**0**	**0**	**17**	**6**	**23**
GT (a-g)	**11**	**233**	**39**	**272**	**5**	**6**	**11**	**238**	**45**	**283**
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IV Livestock Production and Management										
Dairy Management	4	56	45	101	1	4	5	57	49	106
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management	4	32	20	52	2	0	2	34	20	54
Feed & fodder technology	4	55	53	108	4	1	5	59	54	113
Production of quality animal products	1	24	24	48	1	1	2	25	25	50
Others (pl specify)										
Total	**13**	**167**	**142**	**309**	**8**	**6**	**14**	**175**	**148**	**323**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	0	30	30	0	0	0	0	30	30
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet	1	0	19	19	0	1	1	0	20	20
Minimization of nutrient loss in processing	1	0	23	23	0	1	1	0	24	24
Processing and cooking										
Gender mainstreaming through SHGs										

Storage loss minimization techniques										
Value addition	4	27	85	112	0	7	7	27	92	119
Women empowerment	1	0	23	23	0	2	2	0	25	25
Location specific drudgery reduction technologies	1	5	29	34	0	1	1	5	30	35
Rural Crafts										
Women and child care										
Others (pl specify)										
Total	**9**	**32**	**209**	**241**	**0**	**12**	**12**	**32**	**221**	**253**
VI Agril. Engineering										
Farm Machinary and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
VII Plant Protection										
Integrated Pest Management	7	217	49	266	6	2	8	223	51	274
Integrated Disease Management	5	137	37	174	3	1	4	140	38	178
Bio-control of pests and diseases	1	30	4	34	0	1	1	30	5	35
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	**13**	**384**	**90**	**474**	**9**	**4**	**13**	**393**	**94**	**487**
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
X CapacityBuilding and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs	1	38	0	38	0	0	0	38	0	38
Mobilization of social capital										
Entrepreneurial development of farmers/youths	1	25	4	29	0	0	0	25	4	29

WTO and IPR issues										
Others (pl specify)										
Total	**2**	**63**	**4**	**67**	**0**	**0**	**0**	**63**	**4**	**67**
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GRAND TOTAL	**48**	**905**	**509**	**1414**	**23**	**28**	**51**	**928**	**537**	**1465**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										

Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										

Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
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)										
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										

Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
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)										
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops	**6**	**194**	**22**	**216**	**36**	**5**	**41**	**230**	**27**	**257**
Commercial production of vegetables										
Production and value addition										
Fruit Plants	**2**	**60**	**0**	**60**	**0**	**0**	**0**	**60**	**0**	**60**
Ornamental plants										
Spices crops										
Soil health and fertility management										
Production of Inputs at site										
Methods of protective cultivation	**2**	**67**	**5**	**72**	**0**	**0**	**0**	**67**	**5**	**72**
Others (pl. specify)										
Total	**10**	**321**	**27**	**348**	**36**	**5**	**41**	**357**	**32**	**389**
Post harvest technology and value addition										
Processing and value addition										
Others (pl. specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Farm machinery										
Farm machinery, tools and implements										
Others (pl. specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Livestock and fisheries										
Livestock production and management	**2**	**65**	**0**	**65**	**9**	**0**	**9**	**74**	**0**	**74**
Animal Nutrition Management										
Animal Disease Management										
Fisheries Nutrition										
Fisheries Management										
Others (pl. specify) Feed/Fodder Management	**3**	**35**	**43**	**78**	**3**	**8**	**11**	**38**	**51**	**89**
Total	**5**	**100**	**43**	**143**	**12**	**8**	**20**	**112**	**51**	**163**
Home Science										

Household nutritional security										
Economic empowerment of women										
Drudgery reduction of women										
Others (pl. specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Agricultural Extension										
CapacityBuilding and Group Dynamics										
Others (pl. specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GRAND TOTAL	**15**	**421**	**70**	**501**	**48**	**13**	**61**	**468**	**83**	**551**

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			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Commercial floriculture										
Commercial fruit production										
Commercial vegetable production										
Integrated crop management										
Organic farming										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Value addition										
Others (pl. specify)										
Total										
Livestock and fisheries										
Dairy farming										
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming										
Others (pl. specify)										
Total										
Income generation activities										
Vermicomposting										
Production of bio-agents, bio-pesticides,										
bio-fertilizers etc.										
Repair and maintenance of farm machinery										
and implements										
Rural Crafts										
Seed production										
Sericulture										
Mushroom cultivation										
Nursery, grafting etc.										
Tailoring, stitching, embroidery, dying etc.										
Agril. para-workers, para-vet training										
Others (pl. specify)										
Total										
Agricultural Extension										
Capacity building and group dynamics										
Others (pl. specify)										
Total										
Grand Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

3.5. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services (Other than KMAS)	2213	2213		2213
Diagnostic visits	31	69		69
Field Day	12	73		73
Group discussions	3	53		53
KisanGhosthi	4	113		113
Film Show	15	312		312
Self -help groups				
KisanMela				
Exhibition				
Scientists' visit to farmers field	93	253		253
Plant/animal health camps	4	62		62
Farm Science Club				
Ex-trainees Sammelan				
Farmers' seminar/workshop	37	791		791
Method Demonstrations	17	240		240
Celebration of important days	5	273		273
Special day celebration	1	175		175
Exposure visits				
Others (pl. specify)				
1) Swachhta hi seva	15	223		223
2) Poshan Maah celebration	25	342		342
3) Farmers act training	9	302		302
4) PM live programme	2	89		89
5) Training to college students	15	138		138
6) Farmers visit to KVK	403	403		403
7) Krishi Shibir	3	78		78
8) Extn Literature distribution	865	865		865
Total	**3772**	**7067**		**7067**

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

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	
Extension Literature	
Newspaper coverage	8
Popular articles	
Radio Talks	
TV Talks	9
Animal health amps (Number of animals treated)	50
Social Media (No. of platforms Used)	
Others (pl. specify)	
Total	**67**

3.6 Online activities during year 2020

S. No.	Activity Type	Mode of implementation (Video conferencing / Audio Conferencing / Facebook Live / YouTube Live/ Zoom/ Google meet/ Webexetc)	Title of Program	No. of Prog.	No. of Parti /Views
A	Farmers training				
1		Google meet	Integrated pest and disease management in kharif and rabi crops	3	57
2		Google meet	Integrated Nutrient Management on Different vegetable crops	2	60
	Total			**5**	**117**
B	Farmers scientist's interaction programme				
1					
	Total				
C	Farmers seminars				
1					
	Total				
D	Expert lectures				
1		Google meet	Pink bollworm management training with ginners association	1	25
	Total			**1**	**25**
E	Any other (Pl. specify)				
1					
	Total				
	Grand Total (A+B+C+D+E)			**6**	**142**

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)/Kg	Value (Rs)	Number of farmers
Cereals	Wheat	GW-496	-	Not yet harvested		
	Wheat	GW-451	-			
Oilseeds	Groundnut	GJG-31	-	1020	Grading continues	
	Groundnut	GJG-32	-	2394		
	Groundnut	GJG-17	-	3542		
	Groundnut	GAUG-10	-	2556		
	Groundnut	GJG-22	-	19.5		
Total			-	**9531.5**		

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
Commercial						

Vegetable seedlings						
Fruits						
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others						
Total						

Production of Bio-Products

Bio Products	**Name of the bio-product**	**Quantity**	**Value (Rs.)**	**No. of Farmers**
		Kg		
Bio Fertilizers	Azotobacter culture	12	720	3
	PSB Culture	4	480	1
	Rhizobium Culture	22	1320	7
Bio-pesticide	Trichoderma	105	7350	23
Bio-fungicide	Beauveria Bassiana	76	3900	14
Bio Agents				
Others	Pheromone Trap	51	1020	9
	Pink bollworm Lure	558	5580	
	Vegetable Packets	31	310	4
Total			**20680**	

Production of livestock materials

Particulars of Live stock	**Name of the breed**	**Number**	**Value (Rs.)**	**No. of Farmers**
Dairy animals				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)				
Poultry				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl.specify)				
Fisheries				
Indian carp				
Exotic carp				
Others (Pl. specify)				
Total				

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

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

B. Literature developed/published

Item	Title	Authors name	Number
Research papers	1) Impact Assessment of Frotline Demonstration on Integrated Nutrient Management in Tomato Crop in Rajkot District of Gujarat.	1) A.R. Parmar., S.V. Undhad, V.S. Prajapati and N.B. Jadav	5
	2) ICT utilization of Extension Personnel in Saurashtra Region of Gujarat State.	2) Rose Mathews and N.B. Jadav	
	3) Attitude of farmers regarding "Gir Sawaj" brand bio fertilizer in Saurashtra region of Gujarat state	3) Vanpariya J.P., Jadav N.B. and Kapuriya T.D.	
	4) Relationship between characteristics of extension personnel and their extent of ICT utilization	4) Rose Mathews and N.B. Jadav	
	5) Adoption of Agricultural Information Disseminated Through Mobile	5) Meghwal Pankaj Kumar, Jadav N.B and Kapuriya T.D.	
Technical reports	1) Scientific Advisory Committee Report 2) Annual Action Plan for AAP Workshop Gujarat 3) Annual Progress Report 4) Agresco (Agricultural Research Council) Report 5) ZREAC (Zonal Research & Extension Action Committee) Report	Mrs. Pinki Sharma, SMS (Home Science)	5
News letters			
Technical bulletins			
Popular articles			
Extension literature			
Others (Pl. specify)			
TOTAL			**10**

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		
2	Facebook page/ Account		
3	Mobile Apps		
4	WhatsApp groups	KVK, JAU, Pipalia – 1 KVK, JAU, Pipalia - 2	200 205
5	Twitter Account		
6	Any other (Pl. Specify)		

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).

The Broad outline for the case study may be

Title

Background

Interventions

Process

Technology

Impact

Horizontal Spread
Economic gains
Employment Generation

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

F. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1.	Chilly	Use castor as a trap crop	For controlling thrips and jassids
2	Crop husbandry	Crop rotation and mixed cropping	Control weed
3	Fertility Management	Application of *tach / morum*	To improve soil physical condition
4	Fertility Management	Sheep and goat penning	To improve soil fertility
5	Harvesting	Harvest pulse crop in the morning hours	To reduce shattering

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

A. Practicing Farmers

a) Interview
b) Observation
c) According to their need

B. Rural Youth

a)
b)
c)
d)

C. In-service personnel

a)
b)
c)

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) – Refer 2.7
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
Junagadh Agricultural University	
College of Agriculture, Junagadh.	Impart training on Agril. aspects.
College of Agril. Engg, Junagadh	Impart training on Engg. aspects
Pulse Research Station, Junagadh	Supply of seeds for FLDs
Oilseeds Research Station, Junagadh	Supply of seeds for crop museum

Oilseeds Research Station, Amreli	Supply of seeds for crop museum
Director, DGR, Ivnagar, Junagadh	Training & exposure visit
Bio-control Lab, Dept of Ento. JAU. Junagadh	Supply of Beauveria, P. Trap, Lure etc.
Dept. of Plant Pathology, JAU, Junagadh	Supply of Bio fertilizer and Trichoderma
Vegetable Research Station, JAU, Junagadh	Supply of Vegetable Seeds
Cattle Breeding Farm, JAU, Junagadh	Training & exposure visit
State Corporation and State Deptt.	
District Agricultural Officer, Deptt. of Agriculture, District Panchayat, Rajkot	➢ Joint diagnostic team visit at farmers' field ➢ Organizing collaborative training to farmers ➢ For collaborative off campus training ➢ For collaborative training and demonstration Programme ➢ Collaborative on campus training programme ➢ For providing hostel facilities to participants and organizing collaborative Mahila Krishi Mela
District Rural Development Agency, Rajkot	
Deputy Director of Veterinary, Deptt. of Veterinary &Ani. Husbandry, Rajkot	
Deputy Director of Horticulture, Rajkot	
Deputy Director of Agriculture (Training), Farmer Training Centre, Rajkot	
Deputy Director of Agriculture (Extension), Rajkot	
Estate Engineer, Department of Irrigation, Dhoraji	
All Taluka Development Officers, and their team at Taluka level	
ATMA, Rajkot	

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.)
CLFDs (Oil seeds)	2018-19	GOI	120000
Evaluation of Bioefficacy and Phytotoxicity of PII 301 (10) % SC against Chillithrips sponsored by PI Industries Ltd.	-	PI Industries Ltd.	-

C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/No: **Yes**

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

Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	**Meetings**				
02	**Research projects**				
03	**Training programmes**	**On/Off Campus trainings**		**2**	
04	**Demonstrations**				
05	**Extension Programmes**				
	KisanMela				
	Technology Week				
	Exposure visit				
	Exhibition				
	Soil health camps				
	Animal Health Campaigns				

	Others (Pl. specify)				
06	**Publications**				
	Video Films				
	Books				
	Extension Literature				
	Pamphlets				
	Others (Pl. specify)				
07	**Other Activities** (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
	Nil				

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
	Nil				

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
	Nil				

G. Details of linkage with PKVY (Paramparagat Krishi VikasYojana)

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

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
	Cluster frontline demonstration in oilseed		120000	120000	Provide demonstration in groundnut crop

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
	Nil				

7. Convergence with other agencies and departments:

8. Innovator Farmer's Meet

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

9. Farmers Field School (FFS)

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

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

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

Plant protection: -

1. Majority of field crops in all season are suffered from thrips pest infestation. So, their integrated management technology will be needed.
2. Chilli crop was highly infected with wilt disease. The new integrated technology will be needed for their management
3. Groundnut crop in kharif was suffering from yellowish and they not manage easily.

11. Technology Week celebration during2020: Yes/No, If Yes : No

Period of observing Technology Week: From to
Online / Offline:
Total number of farmers visited :
Total number of agencies involved :
Number of demonstrations visited by the farmers within KVK campus:

Other Details

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

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Supply of Livestock specimen (No.)			
Total number of farmers visited the technology week			

12. 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)
Nil				

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

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

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

13. 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 2020			
Feb 2020			
March 2020			
April 2020			
May 2020			
Jun 2020			
Jul 2020			
Aug 2020			
Sept 2020			
Oct 2020			
Nov. 2020			
Dec. 2020			

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
Rajkot-II	Text only	15	600					615
	Voice only	150						150
	Voice & Text both	10						10
	Total Messages	**175**	**600**					**775**
	Total farmers Benefitted	**135**	**120**					**255**

14. 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	
	Nil								

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

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Wheat	11/12/20 to 24/12/20	24/3/21 to 26/3/21	16.5	GW496 GW-451	Mega seed	-	20000/ha approx	-	
Pulses									
Oilseeds									
Groundnut	25/6/20 to 26/6/20	27/10/20 to 22/11/20	17.5	GJG-31 GJG-32 GJG-17 GAUG-10 GJG-22	Breeder Breeder Breeder Breeder Mega	1020 Kg 2394 Kg 3542 Kg 2556 Kg 19.5 Kg	28000/ha approx.	-	
Fibers									
Spices & Plantation crops									
Floriculture									
Fruits									
Vegetables									
Others (specify)									

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

Sl. No.	Bio Products	Name of the Product	Qty (kg)	Amount (Rs.)		Remarks
				Cost of inputs	Gross income	
	Bio- Fertilizers	Nil				
	Bio- Fungicides	Nil				
	Bio- pesticides	Nil				
	Bio-Agents	Nil				

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	
	Nil						

E. Utilization of hostel facilities

Accommodation available (No. of beds): Nil

Months	**No. of trainees stayed**	**Trainee days (days stayed)**	**Reason for short fall (if any)**
January 2020			
February 2020			
March 2020			
April 2020			
May 2020			
June 2020			
July 2020			
August 2020			
September 2020			

October 2020			
November 2020			
December 2020			

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 Demonstration s	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		
Nil									

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
Nil	Vegetable crops		
	Fruit crops		
	Others if any		

Nutritional Garden developed at Village Level

No. of Villages covered	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers covered
Nil	Vegetable crops		
	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
	Nil								

15.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	Galaxy chowk, Dhoraji	060072	Programme Coordinator	32586636847	360002082	SBIN0060072

B. Utilization of KVK funds during the year 2020-21 (Rs. in lakh)(Till Dec, 2020)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	91.00	29.50	62.97
2	**Traveling allowances**	1.50		
3	**Contingencies**	10.80	3.44	6.14
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)		0.40	0.80
B	POL, repair of vehicles, tractor and equipments		0.15	0.30
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)		0.83	1.60
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)		0.26	0.52
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)		0.70	1.10
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)		0.60	1.00
G	Training of extension functionaries		0.50	0.82
H	Maintenance of buildings		0	0
I	Establishment of Soil, Plant & Water Testing Laboratory		0	0
J	Library		0	0
TOTAL (A)				
B. Non-Recurring Contingencies				
1	**Works**	-	-	-
2	**Equipment including SWTL & Furniture**	-	-	-
3	**Vehicle** (Four wheeler/Two wheeler, please specify)	-	-	-
4	**Library** (Purchase of assets like books & journals)	-	-	-
TOTAL (B)			-	-
C. REVOLVING FUND		-	-	-
GRAND TOTAL (A+B+C)		103.30	32.94	69.11

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2018 to March 2019	788950	3661217	2552946	1897221
April 2019 to March 2020	1897221	1332199	2344761	884659
April 2020 to December, 2020	884659	3926552	1706923	3104288

16. 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
1) S. V. Undhad 2) A. R. Parmar 3) V. S. Prajapati 4) P. S. Sharma	Subject Matter Specialist (SMS)	Recent extension approaches for effective transfer of technology	Junagadh Agricultural University, Junagadh	Offline	06-01-2020
5) S. V. Undhad	Subject Matter Specialist (SMS)	National conference of KVK - 2020	NASC Complex, New Delhi	Offline	28-01-20 to 30-01-2020

17. 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	After
Nil					

18. 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
	Nil				

19. 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	
Nil								

20. 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**	15	223
2	**Agricultural Waste Management by Vermicomposting**	5	50

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

APR SUMMARY

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

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	48	928	537	1465
Rural youths				
Extension functionaries				
Sponsored Training	15	468	83	551
Vocational Training				
Total	63	1396	620	2016

2. Frontline demonstrations

Enterprise	No. of Farmers	Area(ha)	Units/Animals
Oilseeds	40	13.5	
Pulses	10	4	
Cereals	10	5	
Vegetables	40	16	
Other crops	10	4	
Hybrid crops/cotton	20	14	
Total	**130**	**56.5**	
Livestock & Fisheries	25	10	50
Other enterprises	50	0.5	
Total	**75**	**10.5**	**50**
Grand Total	**205**	**66.0**	**50**

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	Nil		
Livestock			
Various enterprises			
Total			
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total			
Grand Total			

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	3772	7067
Other extension activities	22	0
Total	3794	7067

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
Rajkot-II	Text only	15	600					615
	Voice only	150						150
	Voice & Text both	10						10
	Total Messages	**175**	**600**					**775**
	Total farmers Benefitted	**135**	**120**					**255**

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	95.315	Grading continues….
Planting material (No.)		
Bio-Products (kg)	777	19350
Livestock Production (No.)		
Fishery production (No.)		

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	65	-
Water		
Plant		
Total	**65**	**-**

8. HRD and Publications

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