

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

1. GENERAL INFORMATION ABOUT THE KVK**1.1. Name and address of KVK with phone, fax and e-mail**

| Address with PIN code | Telephone | | E mail | Website address & No. of visitors (hits) |
|---|-------------|-----|---|--|
| | Office | FAX | | |
| Krishi Vigyan Kendra Junagadh Agricultural University Adityana Road, Opp. Saint Joseph School, Khapat-360579 Dist. Porbandar, Gujarat | 94089 03062 | - | kvk_khpat@yahoo.co.in kvkkhapat@jau.in | - |

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 Motibaug, Junagadh-362001 Gujarat | (1)0285- 2671784 (2)0285-2672080-90 | (1) 0285- 2672004 (2) 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. R. K. Odedra | 94089 03062 | 9825280843 | rkodedra@jau.in |

1.4. Year of sanction: 2005**1.5. Staff Position (as on February, 2019)**

| Sl. No. | Sanctioned post | Name of the incumbent | If Permanent, Please indicate | | | | If Temporary, pl. indicate the consolidated amount paid (Rs/month) |
|---------|---------------------------------|-----------------------|-------------------------------|------------------|-------------------|-----------------|--|
| | | | Discipline | Current Pay Band | Current Grade Pay | Date of joining | |
| 1 | Senior Scientist and Head (I/C) | Dr. R.K.Odedra | Plant Breeding & Genetics | 15600-39100 | 8000 | 01-06-2009 | - |
| 2 | Subject Matter Specialist | Mrs. D. S. Thakar | Home Science | 15600-39100 | 8000 | 22-08-2006 | - |
| 3 | Subject Matter Specialist | Dr. H. A. Patel | Animal Husbandry | 15600-39100 | 6000 | 06-04-2015 | - |
| 4 | Subject Matter Specialist | V.M. Savaliya | Horticulture | 15600-39100 | 6000 | 20-01-2017 | - |
| 5 | Subject Matter Specialist | Vacant | - | - | - | - | - |
| 6 | Subject Matter Specialist | Vacant | - | - | - | - | - |
| 7 | Subject Matter Specialist | Vacant | - | - | - | - | - |

| | | | | | | | |
|----|----------------------------|-----------------|---|--------------|---|------------|---|
| 8 | Programme Assistant | D.N. Hadiya | - | 38090 (Fix) | - | 07-08-2018 | - |
| 9 | Computer Programmer | J J. Naliyapara | - | 39900-126600 | - | 12-06-2008 | - |
| 10 | Farm Manager | A.M. Gamit | - | 38090 (Fix) | - | 02-08-2018 | - |
| 11 | Accountant/ Superintendent | B. S. Bokhariya | - | 39900-126600 | - | 12-06-2008 | - |
| 12 | Stenographer | Vacant | - | - | - | - | - |
| 13 | Driver 1 | Vacant | - | - | - | - | - |
| 14 | Driver 2 | Vacant | - | - | - | - | - |

1.6. Total land with KVK (in ha):

| S. No. | Item | Area (ha) |
|--------------|---------------------------|--------------|
| 1 | Under Buildings | 2.451 |
| 2 | Under Demonstration Units | 0.337 |
| 3 | Under Crops | 14.66 |
| 4 | Horticulture | 2.798 |
| 5 | Pond | 0.344 |
| 6 | Others if any | - |
| Total | | 20.59 |

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

| S. No. | Name of building | Source of funding | Stage | | | | | |
|--------|------------------------------|-------------------|-----------------|--------------------|-------------------|---------------|--------------------|------------------------|
| | | | Completion Year | Complete | | Incomplete | | |
| | | | | Plinth area (Sq.m) | Expenditure (Rs.) | Starting year | Plinth area (Sq.m) | Status of construction |
| 1 | Administrative Building | ICAR | 2007 | 588 | 30,76,850 | - | - | - |
| 2 | Farmers Hostel | ICAR | 2008 | 288 | 21,02,300 | - | - | - |
| 3 | Staff Quarters (6) | ICAR | 2007 | 446 | 28,38,616 | - | - | - |
| 4 | Demonstration Units (2) | - | - | - | - | - | - | - |
| 5 | Fencing | ICAR | 2009 | 500 RM | - | - | - | - |
| 6 | Rain Water harvesting system | ICAR | 2008 | - | - | - | - | - |
| 7 | Threshing floor | ICAR | 2009 | 900 | - | - | - | - |
| 8 | Farm godown | ICAR | 2009 | 129 | - | - | - | - |
| 9 | ICT lab | - | - | - | - | - | - | - |
| 10 | Other | - | - | - | - | - | - | - |

B. Vehicles

| Type of vehicle | Year of purchase | Cost (Rs.) | Total kms. Run | Present status |
|----------------------------|------------------|------------|----------------|----------------|
| Tractor (Farmtrac) | 2005 | 3,80,000 | 62039 Hrs | Good |
| Scorpio Jeep | 2017 | 11,86,893 | 19,166 | Good |
| MotorCycle (Hero Splender) | 2010 | 47,000 | 20510 | Good |

C. Equipments & AV aids

| Name of the equipment / Implements | Year of purchase | Cost (Rs.) | Present status |
|---|------------------|------------|----------------|
| LCD projector | 2008-09 | 1,00,000 | Running |
| Zerox machine | 2008-09 | 1,24,000 | Running |
| R.O. plant | 2008-09 | 24,450 | Running |
| Hcl laptop computer | 2008-09 | 47,500 | Running |
| Food processor | 2008-09 | 5,495 | Running |
| Multipurpose bullock drawn pipe frame implement head peace | 2008-09 | 27,500 | Running |
| Rotavator tractor operated | 2008-09 | 96,000 | Running |
| Planter tractor operated | 2008-09 | 44,000 | Running |
| Tractor drawn harrow cum cultivator cum intercultivator frame 86" | 2008-09 | 37,500 | Running |
| Samsung double door refrigerator | 2008-09 | 17,650 | Running |
| Electrolux grill microwave / oven | 2008-09 | 9,580 | Running |
| Panasonic LCD projector | 2008-09 | 1,03,912 | Running |
| Multi purpose groundnut cum wheat thresher | 2008-09 | 1,14,000 | Running |
| Cotton shredder | 2008-09 | 2,42,000 | Running |
| Solar street light | 2008-09 | 28,000 | Running |
| Solar lanterns | 2008-09 | 4,800 | Running |
| Solar cooker | 2008-09 | 3,300 | Running |
| Mobile seed grading unit | 2008-09 | 16,85,000 | Running |
| Decorticators | 2008-09 | 95,850 | Running |
| Winnowing fan | 2008-09 | 8,500 | Running |
| Chaff cutter | 2008-09 | 30,188 | Running |
| High tech sprayer pump | 2008-09 | 1,850 | Running |

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

| Sl. No. | Date |
|----------------------------------|------|
| 1. Scientific Advisory Committee | - |

2. DETAILS OF DISTRICT

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

| S. No | Farming system/enterprise |
|-------|---------------------------|
| 1 | Rainfed Farming System |
| 2 | Cattle/ Buffalos |

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

a. Agro-Climatic Zone

| Sl. No. | Agro-climatic Zone | Characteristics |
|---------|--------------------|--|
| 1 | South Saurashtra | <p>Porbandar district is located between 21° to 22° N latitude and 69° to 70° E longitude. Khapat- N 21° 40' 12" and E 69° 37' 14"</p> <p>Soil: medium black & silty loam with calcareous in nature</p> <p>pH: of the soil is ranging from 8.01 to 8.58</p> <p>Water: Ec value up to 8.1 mm / cm</p> <p>Average Rainfall: 668.mm</p> <p>Temperature Range: 41.0° C to 12.0 °C</p> |

b. Topography

| S. No. | Agro ecological situation | Characteristics |
|--------|---|---|
| 1 | Shallow black soil with low rainfall | Soil: Sandy clay loam to clay with Rainfall: <750 mm |
| 2 | Hilly soil with low rainfall | Soil: Sandy clay loam to sandy clay with Rainfall: <750 mm |
| 3 | Medium black soil with low rainfall | Soil: Sandy clay to clay with Rainfall: <750 mm |
| 4 | Deep black soil with low rainfall (Ghed) | Soil: clay with Rainfall: <750 mm |
| 5 | Mix red & black soil with medium rainfall | Soil: Sandy clay loam to clay loam with Rainfall: 750-1000 mm |

2.3. Soil Types

| S. No | Soil type | Characteristics | Area in ha |
|-------|-------------------------------|-----------------------|------------|
| 1 | Sandy clay loam to clay | Rainfall: <750 mm | 34241 |
| 2 | Sandy clay loam to sandy clay | Rainfall: <750 mm | 46080 |
| 3 | Sandy clay to clay | Rainfall: <750 mm | 86627 |
| 4 | Clay | Rainfall: <750 mm | 56880 |
| 5 | Sandy clay loam to clay loam | Rainfall: 750-1000 mm | 5707 |

2.4. Area, Production and Productivity of major crops cultivated in the district (2017-18)

| S. No | Crop | Area (ha) | Production (MT) | Productivity (Qt/ha) |
|-------|---------------|-----------|-----------------|----------------------|
| 1 | Groundnut | 76,200 | 1,31,978 | 17.32 |
| 2 | Cotton | 10,700 | 7169 | 6.70 (lint) |
| 3 | Wheat | 8100 | 25,450 | 31.42 |
| 4 | Cumin | 23,613 | 25,974 | 11.00 |
| 5 | Coriander | 19,280 | 28,920 | 15.00 |
| 6 | Gram | 20,000 | 30,720 | 15.36 |
| 7 | Green gram | 2500 | 2288 | 9.15 |
| 8 | Black gram | 200 | 245 | 12.25 |
| 9 | Castor (Rabi) | 300 | 647 | 21.55 |
| 10 | Forage crops | 12,000 | 13,56,996 | 1130.83 |

Source: District agriculture department.

2.5. Weather data (2018-19)

| Month | Rainfall (mm) | Temperature °C | | Relative Humidity (%) | |
|--------------|---------------|----------------|--------------|-----------------------|-------------|
| | | Maximum | Minimum | Maximum | Minimum |
| Apr-18 | - | 31.9 | 16.6 | 92.0 | 54.0 |
| May-18 | - | 33.6 | 18.5 | 89.0 | 46.0 |
| Jun-18 | - | 33.4 | 20.2 | 88.0 | 51.0 |
| July-18 | 407.0 | 29.7 | 16.7 | 96.0 | 62.0 |
| Aug-18 | 18.7 | 29.5 | 15.1 | 96.0 | 65.0 |
| Sep-18 | 35.0 | 31.4 | 16.7 | 94.0 | 58.0 |
| Oct-18 | - | 32.5 | 17.2 | 88.0 | 48.0 |
| Nov-18 | - | 31.1 | 15.5 | 81.0 | 37.0 |
| Dec-18 | - | 29.8 | 13.0 | 75.0 | 42.0 |
| Jan-19 | - | 25.0 | 11.0 | 79.0 | 29.0 |
| Feb-19 | - | 28.5 | 12.5 | 82.0 | 31.0 |
| Total | 460.7 | 30.58 | 15.72 | 87.2 | 47.5 |

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

| Category | Population | Production | Productivity |
|------------------|--------------------|------------------------|---------------------|
| Cattle | | | |
| Crossbred | - | - | - |
| Indigenous | 84,711 | - | - |
| Buffalo | 1,44,573 | - | - |
| Sheep | 21,675 | - | - |
| Goats | 17,891 | - | - |
| Poultry | | | |
| Hens | 2069 | - | - |
| Desi | - | - | - |
| Category | | Production (Q.) | Productivity |
| Fish (Reservoir) | 11,748 (Fisherman) | 9,65,100 | - |

2.7. Details of Operational area / Villages

| Taluka | Name of the block | Name of the village | Major crops & enterprises | Major problem identified | Identified Thrust Areas |
|-----------|-------------------|---|--|---|---|
| Porbandar | Cluster I | Khapat Palkhada Rinavala Kuchhadi Degam | Groundnut Wheat Cumin Coriander Sorghum Gram Fenugreek | <ul style="list-style-type: none"> White grub & stem rot in groundnut Wilt & blight in cumin Powdery mildew in coriander | <ul style="list-style-type: none"> IPM (Management of white grub in groundnut) INM Improved package of practices IDM (Management of stem rot in groundnut) Poor quality water |
| Ranavav | Cluster II | Ramgadh Aaditpara Doltgadh Daiyar Pipliya | Groundnut Cotton Sorghum Wheat Cumin Pearl millet | <ul style="list-style-type: none"> White grub & stem rot in groundnut Pink ball worm & sucking pest in cotton Wilt & blight in cumin | <ul style="list-style-type: none"> IPM (Management of white grub in groundnut; pink ball worm in cotton) INM Improved package of practices IDM (Management of stem rot in groundnut) INM in Horticulture |
| Kutiyana | Cluster III | Choliyana Sindhpur Frer Gokran Hamadpara | Groundnut Cotton Castor Sorghum Wheat Cumin Gram | <ul style="list-style-type: none"> White grub & stem rot in groundnut Pink ball worm & sucking pest in cotton Wilt & blight in cumin | <ul style="list-style-type: none"> IPM (Management of white grub in groundnut; pink ball worm in cotton) INM Improved package of practices IDM (Management of stem rot in groundnut) Problematic soil Poor quality irrigation water |

2.8. Priority thrust areas

| Crop/Enterprise | Thrust area |
|-----------------|---|
| Groundnut | Integrated Nutrient Management, Integrated Pest & Disease Management (White grub & stem rot), Soil moisture conservation, Improved variety, organic farming |
| Cotton | Integrated Pest Management (Pink bollworm & sucking pests), Integrated Nutrient Management |
| Wheat | Integrated Nutrient Management, Soil moisture conservation |
| Cumin | Integrated disease management (Wilt & blight), irrigation management, organic farming |
| Coriander | Improved variety, IDM (Powdery mildew) |
| Chick pea | Improved variety, INM(<i>Rhizobium</i> & PSB), organic farming |
| Sorghum | Soil moisture conservation |
| Horticulture | Improved package of practices of spices, PHT in fruits & vegetables |
| Fisheries | Integrated fish farming, freshwater aquaculture, seaweed cultivation |
| Farm women | Income generating activities, Value addition in agricultural produce, women & child care |

3. TECHNICAL PROGRAMME

3.1. A. Details of targeted mandatory activities by KVK

| OFT (1) | | FLD (2) | |
|----------------|-------------------|------------|-------------------|
| Number of OFTs | Number of Farmers | Area (ha) | Number of Farmers |
| 4 | 20 | 75.0 | 330 |

| Training (3) | | Extension Activities (4) | |
|-------------------|------------------------|-----------------------------|------------------------|
| Number of Courses | Number of Participants | Number of activities | Number of participants |
| 41 | 1050 | 1245 | 2085 |

| Seed Production (Qtl.) (5) | Planting material (Nos.) (6) | Fish seed prod. (No's) (7) | Soil Samples (8) |
|-------------------------------|------------------------------------|-------------------------------|---------------------|
| 220 | 14000 | - | 200 |

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

| S. No. | Major crops & enterprises being practiced in cluster villages | Prioritized problems in these crops/ enterprise | Extent of area (Ha/No.) affected by the problem in the district | Names of Cluster Villages identified for intervention | Proposed Intervention (OFT, FLD, Training, ext. activity etc.)* |
|--------|---|---|---|---|---|
| 1 | Groundnut | • White grub & stem rot in groundnut | 6990 | Khapat Palkhada Rinavala Kuchhadi Degam | OFTs Training Ext. Activities |
| | Cumin | • Wilt & blight in cumin | 1022 | | FLDs Training Ext. Activities |
| | Coriander | • Powdery mildew in coriander | 817 | | FLDs Training Ext. Activities |
| | Cattle/ Buffalos | • Milk Fever & Mastitis | 18845 | | OFTs Training Ext. Activities |

| | | | | | |
|---|---------------------|---|-------|---|-------------------------------------|
| 2 | Groundnut | • White grub & stem rot in groundnut | 6990 | Ramgadh Aaditpara Doltgadh Daiyar Pipliya | OFTs Training Ext. Activities |
| | Cotton | • Pink ball worm & sucking pest in cotton | 3124 | | FLDs Training Ext. Activities |
| | Cumin | • Wilt & blight in cumin | 1022 | | FLDs Training Ext. Activities |
| | Cattle/ Buffalos | • Milk Fever & Mastitis | 18845 | | OFTs Training Ext. Activities |
| 3 | Groundnut | • White grub & stem rot in groundnut | 6990 | Choliyana Sindhpur Gokran Farer Hamadpara | OFTs Training Ext. Activities |
| | Cotton | • Pink ball worm & sucking pest in cotton | 3124 | | FLDs Training Ext. Activities |
| | Cumin | • Wilt & blight in cumin | 1022 | | FLDs Training Ext. Activities |
| | Cattle/ Buffalos | • Milk Fever & Mastitis | 18845 | | OFTs Training Ext. Activities |

* Support with problem-cause and interventions diagram

3.2. Technologies to be assessed

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

| Thematic areas | Cereals | Oilseeds | Pulses | Commercial Crops | Vegetable | Fruits | Flower | Plantati on crops | Tuber Crops | TOTAL |
|---|---------|----------|--------|------------------|-----------|--------|--------|-------------------|-------------|----------|
| Varietal Evaluation | - | - | - | - | - | - | - | - | - | - |
| Seed / Plant production | - | - | - | - | - | - | - | - | - | - |
| Weed Management | - | - | - | - | - | - | - | - | - | - |
| Integrated Crop Management | - | - | - | - | - | - | - | - | - | - |
| Integrated Nutrient Management | - | - | - | - | 1 | - | - | - | - | 1 |
| Integrated Farming System | - | - | - | - | - | - | - | - | - | - |
| Mushroom cultivation | - | - | - | - | - | - | - | - | - | - |
| Drudgery reduction | - | - | - | - | - | - | - | - | - | 1 |
| Farm machineries | - | - | - | - | - | - | - | - | - | - |
| Value addition | - | - | - | - | - | - | - | - | - | - |
| Integrated Pest Management | - | 1 | - | - | - | - | - | - | - | 1 |
| Integrated Disease Management | - | - | - | - | - | - | - | - | - | - |
| Resource conservation technology | - | - | - | - | - | - | - | - | - | - |
| Small Scale income generating enterprises | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | 1 | - | - | 1 | - | - | - | - | 3 |

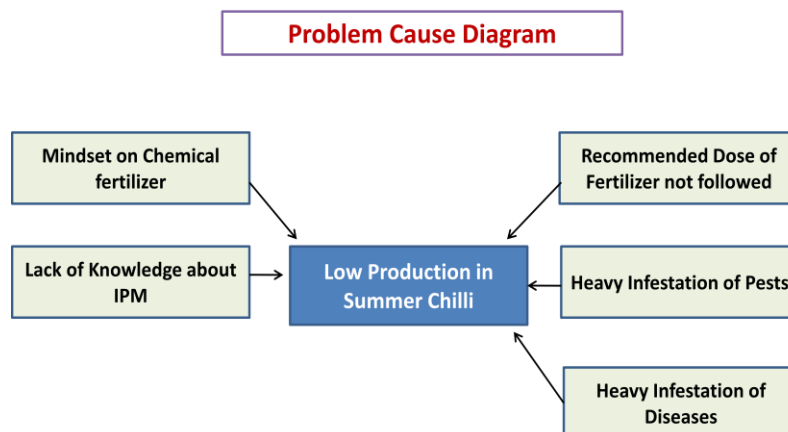
A.2. Abstract on the number of technologies to be assessed in respect of livestock / enterprises

| Thematic areas | Cattle | Poultry | Sheep | Goat | Piggery | Wormi culture | Fisheries | TOTAL |
|---|----------|----------|----------|----------|----------|---------------|-----------|----------|
| Evaluation of Breeds | - | - | - | - | - | - | - | - |
| Nutrition Management | 1 | - | - | - | - | - | - | 1 |
| Disease Management | - | - | - | - | - | - | - | - |
| Value Addition | - | - | - | - | - | - | - | - |
| Production and Management | - | - | - | - | - | - | - | - |
| Feed and Fodder | - | - | - | - | - | - | - | - |
| Small Scale income generating enterprises | - | - | - | - | - | - | - | - |
| TOTAL | 1 | - | - | - | - | - | - | 1 |

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

| S No | Crop/ enterprise | Prioritized problem | Title of intervention | Technology options | Source of Tech. | Name of critical input | Qty per trial | Cost per trial | No. of trials | Total cost for the Intervention (Rs.) | Parameters to be studied | Team members |
|------|------------------|--|---|------------------------------------|--|--|---------------------|----------------|---------------|---------------------------------------|--|--------------|
| 1 | Groundnut | Low yield due to white grub attack | Management of white grub in groundnut | IPM | JAU, Junagadh | Beauveria bassiana & Metarhizium anisopliae Chloropyrifos | 1 kg each 1 Lit. | 700/- | 3 | 2100/- | Yield (kg/ha) White Grub population/m2 Net Profit (Rs./ha) | 3 |
| 2 | Farm women | Physiological and muscular stresses in farmwoman during milking. | Evaluation and minimization of physiological & muscular stress of farmwomen | Revolving milking stool with Stand | MPUAT, Udaipur | Revolving milking stool with Stand | 1 | 960/- | 5 | 4800/- | Physical stress, Tool Factor | 3 |
| 3 | Cattle | Low Milk Yield | Effect of Balanced feeding in Gir Cow | Nutrient Management | Animal Nutrition and Feeding Practice, ICAR, New-Delhi | Balanced feeding – 4kg/day | 3 animal per trail | 1000/- | 3 | 2500/- | Milk yield & Income | 3 |
| 4 | Chilli | Low production in Summer chilli | Integrated Nutrient Management in Summer chilli | INM | NAU, Navsari | Banana pseudostem sap | 3 lit. | 500/- | 3 | 1500/- | Yield, Economics | 3 |

➤ **Problem cause diagram of Low production in summer chilli**



3.3. Frontline Demonstrations

A. Details of FLDs to be organized -

| Sl No | Crop | Variety | Thematic area | Technology for demonstration | Critical inputs with cost (Rs.) | Season and year | Area (ha) | No. of farmers/demon. | Parameters identified |
|--------------|-------------------|----------------------------|---------------------|--|--|-------------------|-------------|-----------------------|---|
| 1 | Groundnut | GJG-22 | Varietal evaluation | Improved variety & bio fertilizer | Seed | Kharif 2019 | 4 | 10 | Low productivity of existing variety |
| 2 | Green gram | GAM-5 | Varietal evaluation | Imp. Variety & Bio fertilizer | Seed | Summer 2019-20 | 4 | 10 | Low productivity of existing variety |
| 3 | Wheat | Farmer's variety | INM | Zinc sulphate @ 20 kg/ha | Zinc sulphate @ 20 kg/ha | Rabi-2019-20 | 8 | 20 | Deficiency of micronutrient |
| 4 | Wheat | Farmer's variety | INM | Savaj Azotobacter & Phosphate culture | Savaj Azotobacter & Phosphate culture | Rabi-2019-20 | 4 | 10 | Higher dose of chemical fertilizer |
| 5 | Wheat | GJW-463 | Varietal evaluation | Improved variety | Seed | Rabi-2019-20 | 4 | 10 | Low productivity of existing variety |
| 6 | Onion | Pili patti | INM | Sulphur 90 % | Sulphur 90 % | Rabi-2019-20 | 4 | 10 | Low productivity |
| 7 | Mango | Kesar | IPM | Pheromone trap(Fruit fly) | Pheromone trap | Rabi-2019-20 | 4 | 10 | Heavy Infestation of fruit fly |
| 8 | Cotton | Bt. Variety | IPM | IPM | Beuveria, Phromone traps | Kharif-2019 | 10 | 25 | Heavy infestation of pink ball worm |
| 9 | Cotton | Bt. Variety | IPM | IPM for pink ballworm | MPD tech. | Kharif-2019 | 4 | 10 | Heavy infestation of pink ball worm |
| 10 | Vegetables | Available at JAU, Junagadh | Varietal evaluation | Improved variety of 5 crops | Seed | Kharif-2019 | 2.5 | 50 | - |
| 11 | Vegetables | Available at JAU, Junagadh | Varietal evaluation | Improved variety of 5 crops | Seed | Rabi-2019-20 | 2.5 | 50 | - |
| 12 | Chick pea | Farmer's variety (GG-1) | Bio-agent | HNPV & <i>Beuveria</i> | Bio-agent HNPV & <i>Beuveria</i> | Rabi-2019-20 | 4 | 10 | - |
| 13 | Groundnut | GG-20 | INM | Savaj <i>Rhizobium</i> & Phosphate culture | Savaj <i>Rhizobium</i> & Phosphate culture | Kharif-2019 | 10 | 25 | Higher dose of chemical fertilizer |
| 14 | Sorghum (Gundhri) | - | INM | Savaj <i>Azotobacter</i> & Phosphate culture | Savaj <i>Azotobacter</i> & Phosphate culture | Semi Rabi-2019-20 | 10 | 25 | Low productivity due to imbalance fertilizer appli. |
| 15 | Animal Husbandry | - | Nutrition | Nutrition management | Supplement of by Pass Fat in Gir cow | - | - | 20 | Low Milk productivity |
| 16 | Animal Husbandry | - | Nutrition | Nutrition management | Chelated mineral mixture | - | - | 20 | Low Milk productivity |
| 17 | Animal Husbandry | - | Disease management | Disease management | Mineral mixture+ Fenbendazole tablet | - | - | 10 | - |
| 18 | Home Science | - | Drudgery Reduction | Revolving milking Stool | Revolving Milking Stool | - | - | 5 | - |
| Total | | | | | | - | 75.0 | 330 | - |

Sponsored Demonstration

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

B. Extension and Training activities under FLDs

| S. No. | Activity | No. of activities | Month | Number of participants |
|--------|--------------------------------------|-------------------|-------|------------------------|
| 1 | Field days | 14 | - | 350 |
| 2 | Farmers Training | 8 | - | 240 |
| 3 | Media coverage | - | - | - |
| 4 | Training for extension functionaries | - | - | - |

C. Details of FLD on Enterprises

a. Farm Implements

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

b. Livestock Enterprises

| Enterprise | Breed | No. of farmers | No. of animals, poultry birds etc. | Critical inputs | Performance parameters / indicators |
|------------------|---------|----------------|------------------------------------|--------------------------------------|-------------------------------------|
| Animal Husbandry | Gir cow | 20 | - | Supplement of by Pass Fat in Gir cow | Fat % & milk yield |
| Animal Husbandry | Buffalo | 20 | - | Chelated mineral mixture | Fat % & milk yield |

c. FLD on Other enterprises

| Enterprise | Name of the technology demonstrated | No. of Farmer | No. of units | Critical inputs | Performance parameters / indicators |
|----------------------------|-------------------------------------|---------------|--------------|-----------------|-------------------------------------|
| Kitchen Gardening (Kharif) | Improved variety of 5 crops | 50 | 5 | Seed | Yield |
| Kitchen Gardening (Rabi) | Improved variety of 5 crops | 50 | 5 | Seed | Yield |

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

A. ON Campus

| Thematic Area | No. of Courses | No. of Participants | | | | | | | Grand Total |
|-------------------------------------|----------------|---------------------|---|----|-------|---|---|----|-------------|
| | | Others | | | SC/ST | | | | |
| | | M | F | T | M | F | T | | |
| (A) Farmers & Farm Women | | | | | | | | | |
| I Crop Production | | | | | | | | | |
| Weed Management | 1 | 15 | - | 15 | 5 | - | 5 | 20 | |
| Resource Conservation Technologies | - | - | - | - | - | - | - | - | |
| Cropping Systems | - | - | - | - | - | - | - | - | |
| Crop Diversification | - | - | - | - | - | - | - | - | |
| Integrated Farming | - | - | - | - | - | - | - | - | |
| Water management | - | - | - | - | - | - | - | - | |
| Seed production | - | - | - | - | - | - | - | - | |
| Nursery management | 1 | 15 | - | 15 | 5 | - | 5 | 20 | |

| | | | | | | | | |
|---|---|----|----|----|---|---|---|----|
| Integrated Crop Management | - | - | - | - | - | - | - | - |
| Fodder production | 1 | 15 | - | 15 | - | - | - | 15 |
| Production of organic inputs | 1 | 15 | - | 15 | 5 | - | 5 | 20 |
| II Horticulture | | | | | | | | |
| a) Vegetable Crops | | | | | | | | |
| Production of low volume and high value crops | - | - | - | - | - | - | - | - |
| Off-season vegetables | - | - | - | - | - | - | - | - |
| Nursery raising | 1 | 15 | - | 15 | - | - | - | 15 |
| Exotic vegetables like Broccoli | - | - | - | - | - | - | - | - |
| Export potential vegetables | - | - | - | - | - | - | - | - |
| Grading and standardization | - | - | - | - | - | - | - | - |
| Protective cultivation (Green Houses, Shade Net etc.) | 1 | 20 | - | 20 | - | - | - | 20 |
| b) Fruits | | | | | | | | |
| Training and Pruning | - | - | - | - | - | - | - | - |
| Layout and Management of Orchards | - | - | - | - | - | - | - | - |
| Cultivation of Fruit | - | - | - | - | - | - | - | - |
| Management of young plants/orchards | - | - | - | - | - | - | - | - |
| Rejuvenation of old orchards | - | - | - | - | - | - | - | - |
| Export potential fruits | - | - | - | - | - | - | - | - |
| Micro irrigation systems of orchards | - | - | - | - | - | - | - | - |
| Plant propagation techniques | - | - | - | - | - | - | - | - |
| PHT & value addition | 1 | - | 17 | 17 | - | 3 | 3 | 20 |
| c) Ornamental Plants | | | | | | | | |
| Nursery Management | - | - | - | - | - | - | - | - |
| Management of potted plants | - | - | - | - | - | - | - | - |
| Export potential of ornamental plants | - | - | - | - | - | - | - | - |
| Propagation techniques of Ornamental Plants | - | - | - | - | - | - | - | - |
| d) Plantation crops | | | | | | | | |
| Production and Management technology | - | - | - | - | - | - | - | - |
| Processing and value addition | - | - | - | - | - | - | - | - |
| e) Tuber crops | | | | | | | | |
| Production and Management technology | - | - | - | - | - | - | - | - |
| Processing and value addition | - | - | - | - | - | - | - | - |
| f) Spices | | | | | | | | |
| Production and Management technology | 1 | 20 | - | 20 | - | - | - | 20 |
| Processing and value addition | - | - | - | - | - | - | - | - |
| g) Medicinal and Aromatic Plants | | | | | | | | |
| Nursery management | - | - | - | - | - | - | - | - |
| Production and management technology | - | - | - | - | - | - | - | - |
| Post harvest technology and value addition | - | - | - | - | - | - | - | - |
| III Soil Health and Fertility Management | | | | | | | | |
| Soil fertility management | - | - | - | - | - | - | - | - |
| Soil and Water Conservation | - | - | - | - | - | - | - | - |
| Integrated Nutrient Management | - | - | - | - | - | - | - | - |
| Production and use of organic inputs | - | - | - | - | - | - | - | - |
| Management of Problematic soils | - | - | - | - | - | - | - | - |
| Micro nutrient deficiency in crops | - | - | - | - | - | - | - | - |
| Nutrient Use Efficiency | - | - | - | - | - | - | - | - |
| Soil and Water Testing | - | - | - | - | - | - | - | - |
| IV Livestock Production and Management | | | | | | | | |
| Dairy Management | 1 | 10 | 5 | 15 | 3 | 2 | 5 | 20 |
| Poultry Management | - | - | - | - | - | - | - | - |
| Piggery Management | - | - | - | - | - | - | - | - |
| Rabbit Management/goat | - | - | - | - | - | - | - | - |
| Disease Management | 1 | 16 | 4 | 20 | 4 | 1 | 5 | 25 |

| | | | | | | | | |
|--|---|----|----|----|---|---|---|----|
| Feed management | - | - | - | - | - | - | - | - |
| Production of quality animal products | 1 | 15 | 5 | 20 | 3 | 2 | 5 | 25 |
| 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 | - | 16 | 16 | - | 4 | 4 | 20 |
| Minimization of nutrient loss in processing | - | - | - | - | - | - | - | - |
| Gender mainstreaming through SHGs | - | - | - | - | - | - | - | - |
| Storage loss minimization techniques | - | - | - | - | - | - | - | - |
| Value addition | 1 | - | 17 | 17 | - | 3 | 3 | 20 |
| Income generation activities for empowerment of rural Women | - | - | - | - | - | - | - | - |
| Location specific drudgery reduction technologies | - | - | - | - | - | - | - | - |
| Rural Crafts | 1 | - | 16 | 16 | - | 4 | 4 | 20 |
| Women and child care | - | - | - | - | - | - | - | - |
| VI Agril. Engineering | | | | | | | | |
| Installation and maintenance of micro irrigation systems | - | - | - | - | - | - | - | - |
| Use of Plastics in farming practices | - | - | - | - | - | - | - | - |
| Production of small tools and implements | - | - | - | - | - | - | - | - |
| Repair and maintenance of farm machinery and implements | - | - | - | - | - | - | - | - |
| Small scale processing and value addition | - | - | - | - | - | - | - | - |
| Post Harvest Technology | - | - | - | - | - | - | - | - |
| VII Plant Protection | | | | | | | | |
| Integrated Pest Management | 1 | 12 | - | 12 | 8 | - | 8 | 20 |
| Integrated Disease Management | 1 | 18 | - | 18 | 2 | - | 2 | 20 |
| Bio-control of pests and diseases | - | - | - | - | - | - | - | - |
| Production of bio control agents and bio pesticides | - | - | - | - | - | - | - | - |
| VIII Fisheries | | | | | | | | |
| Integrated fish farming | - | - | - | - | - | - | - | - |
| Carp breeding and hatchery management | - | - | - | - | - | - | - | - |
| Carp fry and fingerling rearing | - | - | - | - | - | - | - | - |
| Composite fish culture | - | - | - | - | - | - | - | - |
| Hatchery management and culture of freshwater prawn | - | - | - | - | - | - | - | - |
| Breeding and culture of ornamental fishes | - | - | - | - | - | - | - | - |
| Portable plastic carp hatchery | - | - | - | - | - | - | - | - |
| Pen culture of fish and prawn | - | - | - | - | - | - | - | - |
| Shrimp farming | - | - | - | - | - | - | - | - |
| Edible oyster farming | - | - | - | - | - | - | - | - |
| Pearl culture | - | - | - | - | - | - | - | - |
| Fish processing and value addition | - | - | - | - | - | - | - | - |
| IX Production of Inputs at site | | | | | | | | |
| Seed Production | - | - | - | - | - | - | - | - |
| Planting material production | - | - | - | - | - | - | - | - |
| Bio-agents production | - | - | - | - | - | - | - | - |
| Bio-pesticides production | - | - | - | - | - | - | - | - |
| Bio-fertilizer production | - | - | - | - | - | - | - | - |
| Vermi-compost production | - | - | - | - | - | - | - | - |
| Organic manures production | - | - | - | - | - | - | - | - |
| Production of fry and fingerlings | - | - | - | - | - | - | - | - |

| | | | | | | | | |
|---|-----------|------------|-----------|------------|-----------|-----------|-----------|------------|
| Production of Bee-colonies and wax sheets | - | - | - | - | - | - | - | - |
| Small tools and implements | - | - | - | - | - | - | - | - |
| Production of livestock feed and fodder | - | - | - | - | - | - | - | - |
| Production of Fish feed | - | - | - | - | - | - | - | - |
| X Capacity Building and Group Dynamics | | | | | | | | |
| Leadership development | - | - | - | - | - | - | - | - |
| Group dynamics | - | - | - | - | - | - | - | - |
| Formation and Management of SHGs | - | - | - | - | - | - | - | - |
| Mobilization of social capital | - | - | - | - | - | - | - | - |
| Entrepreneurial development of farmers/youths | - | - | - | - | - | - | - | - |
| WTO and IPR issues | - | - | - | - | - | - | - | - |
| XI Agro-forestry | | | | | | | | |
| Production technologies | - | - | - | - | - | - | - | - |
| Nursery management | - | - | - | - | - | - | - | - |
| Integrated Farming Systems | - | - | - | - | - | - | - | - |
| XII Others (Pl. Specify) | | | | | | | | |
| TOTAL | 16 | 186 | 80 | 266 | 35 | 19 | 54 | 320 |
| (B) RURAL YOUTH | | | | | | | | |
| Mushroom Production | - | - | - | - | - | - | - | - |
| Bee-keeping | - | - | - | - | - | - | - | - |
| Integrated farming | 1 | 15 | 5 | 20 | 3 | 2 | 5 | 25 |
| Seed production | - | - | - | - | - | - | - | - |
| Production of organic inputs | - | - | - | - | - | - | - | - |
| Integrated Farming (Medicinal) | - | - | - | - | - | - | - | - |
| Planting material production | - | - | - | - | - | - | - | - |
| Vermi-culture | - | - | - | - | - | - | - | - |
| Sericulture | - | - | - | - | - | - | - | - |
| Protected cultivation of vegetable crops | - | - | - | - | - | - | - | - |
| Commercial fruit production | - | - | - | - | - | - | - | - |
| Repair and maintenance of farm machinery and implements | - | - | - | - | - | - | - | - |
| Nursery Management of Horticulture crops | - | - | - | - | - | - | - | - |
| Training and pruning of orchards | - | - | - | - | - | - | - | - |
| Value addition | - | - | - | - | - | - | - | - |
| Production of quality animal products | - | - | - | - | - | - | - | - |
| Dairying | - | - | - | - | - | - | - | - |
| Sheep and goat rearing | - | - | - | - | - | - | - | - |
| Quail farming | - | - | - | - | - | - | - | - |
| Piggery | - | - | - | - | - | - | - | - |
| Rabbit farming | - | - | - | - | - | - | - | - |
| Poultry production | - | - | - | - | - | - | - | - |
| Ornamental fisheries | - | - | - | - | - | - | - | - |
| Para vets | - | - | - | - | - | - | - | - |
| Para extension workers | - | - | - | - | - | - | - | - |
| Composite fish culture | - | - | - | - | - | - | - | - |
| Freshwater prawn culture | - | - | - | - | - | - | - | - |
| Shrimp farming | - | - | - | - | - | - | - | - |
| Pearl culture | - | - | - | - | - | - | - | - |
| Cold water fisheries | - | - | - | - | - | - | - | - |
| Fish harvest and processing technology | - | - | - | - | - | - | - | - |
| Fry and fingerling rearing | - | - | - | - | - | - | - | - |
| Small scale processing | - | - | - | - | - | - | - | - |
| Post Harvest Technology | - | - | - | - | - | - | - | - |
| Tailoring and Stitching | - | - | - | - | - | - | - | - |
| Rural Crafts | - | - | - | - | - | - | - | - |
| TOTAL | 1 | 15 | 5 | 20 | 3 | 2 | 5 | 25 |

| (C) Extension Personnel | | | | | | | | |
|---|-----------|------------|-----------|------------|-----------|-----------|-----------|------------|
| Productivity enhancement in field crops | 1 | 21 | - | 21 | 4 | - | 4 | 25 |
| Integrated Pest Management | - | - | - | - | - | - | - | - |
| Integrated Nutrient management | - | - | - | - | - | - | - | - |
| Rejuvenation of old orchards | - | - | - | - | - | - | - | - |
| Protected cultivation technology | - | - | - | - | - | - | - | - |
| Formation and Management of SHGs | - | - | - | - | - | - | - | - |
| Group Dynamics and farmers organization | - | - | - | - | - | - | - | - |
| Information networking among farmers | - | - | - | - | - | - | - | - |
| Capacity building for ICT application | - | - | - | - | - | - | - | - |
| Care and maintenance of farm machinery and implements | - | - | - | - | - | - | - | - |
| WTO and IPR issues | - | - | - | - | - | - | - | - |
| Management in farm animals | - | - | - | - | - | - | - | - |
| Livestock feed and fodder production | - | - | - | - | - | - | - | - |
| Household food security | - | - | - | - | - | - | - | - |
| Women and Child care | - | - | - | - | - | - | - | - |
| Low cost and nutrient efficient diet designing | - | - | - | - | - | - | - | - |
| Production and use of organic inputs | - | - | - | - | - | - | - | - |
| Gender mainstreaming through SHGs | - | - | - | - | - | - | - | - |
| Any other (Pl. Specify) | - | - | - | - | - | - | - | - |
| TOTAL | 1 | 21 | - | 21 | 4 | - | 4 | 25 |
| Grand Total (A+B+C) | 18 | 222 | 85 | 307 | 42 | 21 | 63 | 370 |

B. OFF Campus

| Thematic Area | No. of Courses | No. of Participants | | | | | | Grand Total |
|---|----------------|---------------------|--------|-------|-------|--------|-------|-------------|
| | | Others | | | SC/ST | | | |
| | | Male | Female | Total | Male | Female | Total | |
| (A) Farmers & Farm Women | | | | | | | | |
| I Crop Production | | | | | | | | |
| Weed Management | - | - | - | - | - | - | - | - |
| Resource Conservation Technologies | 1 | 31 | - | 31 | 4 | - | 4 | 35 |
| Cropping Systems | - | - | - | - | - | - | - | - |
| Crop Diversification | - | - | - | - | - | - | - | - |
| Integrated Farming | 1 | 20 | - | 20 | 5 | - | 5 | 25 |
| Water management | - | - | - | - | - | - | - | - |
| Seed production | - | - | - | - | - | - | - | - |
| Nursery management | - | - | - | - | - | - | - | - |
| Integrated Crop Management | 1 | 30 | - | 30 | 5 | - | 5 | 35 |
| Fodder production | - | - | - | - | - | - | - | - |
| Production of organic inputs | - | - | - | - | - | - | - | - |
| II Horticulture | | | | | | | | |
| a) Vegetable Crops | | | | | | | | |
| Production of low volume and high value crops | - | - | - | - | - | - | - | - |
| Off-season vegetables | - | - | - | - | - | - | - | - |
| Nursery raising | - | - | - | - | - | - | - | - |
| Exotic vegetables like Broccoli | - | - | - | - | - | - | - | - |
| Export potential vegetables | - | - | - | - | - | - | - | - |
| Grading and standardization | - | - | - | - | - | - | - | - |
| Protective cultivation (Green Houses, Shade Net etc.) | - | - | - | - | - | - | - | - |
| b) Fruits | | | | | | | | |
| Training and Pruning | - | - | - | - | - | - | - | - |

| | | | | | | | | |
|--|---|----|---|----|---|----|----|----|
| Layout and Management of Orchards | 1 | 25 | - | 25 | - | - | - | 25 |
| Cultivation of Fruit | - | - | - | - | - | - | - | - |
| Management of young plants/orchards | - | - | - | - | - | - | - | - |
| Rejuvenation of old orchards | - | - | - | - | - | - | - | - |
| Export potential fruits | - | - | - | - | - | - | - | - |
| Micro irrigation systems of orchards | - | - | - | - | - | - | - | - |
| Plant propagation techniques | - | - | - | - | - | - | - | - |
| c) Ornamental Plants | | | | | | | | |
| Nursery Management | - | - | - | - | - | - | - | - |
| Management of potted plants | - | - | - | - | - | - | - | - |
| Export potential of ornamental plants | - | - | - | - | - | - | - | - |
| Propagation techniques of Ornamental Plants | - | - | - | - | - | - | - | - |
| d) Plantation crops | | | | | | | | |
| Production and Management technology | 1 | 25 | 2 | 27 | 3 | - | 3 | 30 |
| Processing and value addition | - | - | - | - | - | - | - | - |
| e) Tuber crops | | | | | | | | |
| Production and Management technology | - | - | - | - | - | - | - | - |
| Processing and value addition | - | - | - | - | - | - | - | - |
| f) Spices | | | | | | | | |
| Production and Management technology | 2 | 48 | - | 48 | 2 | - | 2 | 50 |
| Processing and value addition | - | - | - | - | - | - | - | - |
| g) Medicinal and Aromatic Plants | | | | | | | | |
| Nursery management | - | - | - | - | - | - | - | - |
| Production and management technology | - | - | - | - | - | - | - | - |
| Post harvest technology and value addition | - | - | - | - | - | - | - | - |
| III Soil Health and Fertility Management | | | | | | | | |
| Soil fertility management | 1 | 40 | - | 40 | - | - | - | 40 |
| Soil and Water Conservation | - | - | - | - | - | - | - | - |
| Integrated Nutrient Management | - | - | - | - | - | - | - | - |
| Production and use of organic inputs | - | - | - | - | - | - | - | - |
| Management of Problematic soils | - | - | - | - | - | - | - | - |
| Micro nutrient deficiency in crops | - | - | - | - | - | - | - | - |
| Nutrient Use Efficiency | - | - | - | - | - | - | - | - |
| Soil and Water Testing | - | - | - | - | - | - | - | - |
| IV Livestock Production and Management | | | | | | | | |
| Dairy Management | - | - | - | - | - | - | - | - |
| Poultry Management | - | - | - | - | - | - | - | - |
| Piggery Management | - | - | - | - | - | - | - | - |
| Rabbit Management /goat | - | - | - | - | - | - | - | - |
| Disease Management | 3 | 65 | 5 | 70 | 5 | 10 | 15 | 85 |
| Feed management | 1 | 30 | - | 30 | 5 | - | 5 | 35 |
| Production of quality animal products | - | - | - | - | - | - | - | - |
| 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 | - | 30 | 30 | - | 5 | 5 | 35 |
| Minimization of nutrient loss in processing | - | - | - | - | - | - | - | - |
| Gender mainstreaming through SHGs | - | - | - | - | - | - | - | - |
| Storage loss minimization techniques | - | - | - | - | - | - | - | - |
| Value addition | 1 | - | 30 | 30 | - | 5 | 5 | 35 |
| Income generation activities for empowerment of rural Women | - | - | - | - | - | - | - | - |
| Location specific drudgery reduction technologies | 2 | - | 55 | 55 | - | 5 | 5 | 60 |
| Rural Crafts | - | - | - | - | - | - | - | - |
| Women and child care | - | - | - | - | - | - | - | - |
| VI Agril. Engineering | | | | | | | | |
| Installation and maintenance of micro irrigation systems | - | - | - | - | - | - | - | - |
| Use of Plastics in farming practices | - | - | - | - | - | - | - | - |
| Production of small tools and implements | - | - | - | - | - | - | - | - |
| Repair and maintenance of farm machinery and implements | - | - | - | - | - | - | - | - |
| Small scale processing and value addition | - | - | - | - | - | - | - | - |
| Post Harvest Technology | - | - | - | - | - | - | - | - |
| VII Plant Protection | | | | | | | | |
| Integrated Pest Management | 2 | 55 | - | 55 | 10 | - | 10 | 65 |
| Integrated Disease Management | 1 | 25 | - | 25 | - | - | - | 25 |
| Bio-control of pests and diseases | - | - | - | - | - | - | - | - |
| Production of bio control agents and bio pesticides | - | - | - | - | - | - | - | - |
| VIII Fisheries | | | | | | | | |
| Integrated fish farming | - | - | - | - | - | - | - | - |
| Carp breeding and hatchery management | - | - | - | - | - | - | - | - |
| Carp fry and fingerling rearing | - | - | - | - | - | - | - | - |
| Composite fish culture | - | - | - | - | - | - | - | - |
| Hatchery management and culture of freshwater prawn | - | - | - | - | - | - | - | - |
| Breeding and culture of ornamental fishes | - | - | - | - | - | - | - | - |
| Portable plastic carp hatchery | - | - | - | - | - | - | - | - |
| Pen culture of fish and prawn | - | - | - | - | - | - | - | - |
| Shrimp farming | - | - | - | - | - | - | - | - |
| Edible oyster farming | - | - | - | - | - | - | - | - |
| Pearl culture | - | - | - | - | - | - | - | - |
| Fish processing and value addition | - | - | - | - | - | - | - | - |
| IX Production of Inputs at site | | | | | | | | |
| Seed Production | - | - | - | - | - | - | - | - |
| Planting material production (Horti.) | - | - | - | - | - | - | - | - |
| Bio-agents production | - | - | - | - | - | - | - | - |
| Bio-pesticides production | - | - | - | - | - | - | - | - |
| Bio-fertilizer production | - | - | - | - | - | - | - | - |
| Vermi-compost production (Horti.) | - | - | - | - | - | - | - | - |
| Organic manures production (A.S.) | - | - | - | - | - | - | - | - |
| Production of fry and fingerlings | - | - | - | - | - | - | - | - |

| | | | | | | | | |
|---|-----------|------------|------------|------------|-----------|-----------|-----------|------------|
| Production of Bee-colonies and wax sheets | - | - | - | - | - | - | - | - |
| Small tools and implements | - | - | - | - | - | - | - | - |
| Production of livestock feed and fodder | - | - | - | - | - | - | - | - |
| Production of Fish feed | - | - | - | - | - | - | - | - |
| X Capacity Building and Group Dynamics | | | | | | | | |
| Leadership development | - | - | - | - | - | - | - | - |
| Group dynamics | - | - | - | - | - | - | - | - |
| Formation and Management of SHGs(HS) | - | - | - | - | - | - | - | - |
| Mobilization of social capital | - | - | - | - | - | - | - | - |
| Entrepreneurial development of farmers/youths (Agro.) | - | - | - | - | - | - | - | - |
| WTO and IPR issues | - | - | - | - | - | - | - | - |
| XI Agro-forestry | | | | | | | | |
| Production technologies | - | - | - | - | - | - | - | - |
| Nursery management | - | - | - | - | - | - | - | - |
| Integrated Farming Systems (Agro) | - | - | - | - | - | - | - | - |
| TOTAL | 19 | 394 | 122 | 516 | 39 | 25 | 64 | 580 |
| XII Others (RY) | | | | | | | | |
| Value addition | 1 | 5 | 20 | 25 | 5 | 5 | 10 | 35 |
| Integrated Farming | 1 | 30 | - | 30 | 5 | - | 5 | 35 |
| TOTAL | 2 | 35 | 20 | 55 | 10 | 5 | 15 | 70 |
| TOTAL | 21 | 429 | 142 | 571 | 49 | 30 | 79 | 650 |

C. Consolidated table (ON and OFF Campus)

| Thematic Area | No. of Courses | No. of Participants | | | | | | Grand Total |
|---|----------------|---------------------|---|----|-------|---|---|-------------|
| | | Others | | | SC/ST | | | |
| | | M | F | T | M | F | T | |
| (A) Farmers & Farm Women | | | | | | | | |
| I Crop Production | | | | | | | | |
| Weed Management | 1 | 15 | - | 15 | 5 | - | 5 | 20 |
| Resource Conservation Technologies | 1 | 31 | - | 31 | 4 | - | 4 | 35 |
| Cropping Systems | - | - | - | - | - | - | - | - |
| Crop Diversification | - | - | - | - | - | - | - | - |
| Integrated Farming | 1 | 20 | - | 20 | 5 | - | 5 | 25 |
| Water management | - | - | - | - | - | - | - | - |
| Seed production | - | - | - | - | - | - | - | - |
| Nursery management | 1 | 15 | - | 15 | 5 | - | 5 | 20 |
| Integrated Crop Management | 1 | 30 | - | 30 | 5 | - | 5 | 35 |
| Fodder production | 1 | 15 | - | 15 | - | - | - | 15 |
| Production of organic inputs | 1 | 15 | - | 15 | 5 | - | 5 | 20 |
| II Horticulture | | | | | | | | |
| a) Vegetable Crops | | | | | | | | |
| Production of low volume and high value crops | - | - | - | - | - | - | - | - |
| Off-season vegetables | - | - | - | - | - | - | - | - |
| Nursery raising | 1 | 15 | - | 15 | - | - | - | 15 |
| Exotic vegetables like Broccoli | - | - | - | - | - | - | - | - |
| Export potential vegetables | - | - | - | - | - | - | - | - |
| Grading and standardization | - | - | - | - | - | - | - | - |
| Protective cultivation (Green Houses, Shade Net etc.) | 1 | 20 | - | 20 | - | - | - | 20 |

| | | | | | | | | |
|--|---|----|----|----|---|----|----|-----|
| b) Fruits | | | | | | | | |
| Training and Pruning | - | - | - | - | - | - | - | - |
| Layout and Management of Orchards | 1 | 25 | - | 25 | - | - | - | 25 |
| Cultivation of Fruit | - | - | - | - | - | - | - | - |
| Management of young plants/orchards | - | - | - | - | - | - | - | - |
| Rejuvenation of old orchards | - | - | - | - | - | - | - | - |
| Export potential fruits | - | - | - | - | - | - | - | - |
| Micro irrigation systems of orchards | - | - | - | - | - | - | - | - |
| Plant propagation techniques | - | - | - | - | - | - | - | - |
| PHT & Value addition | 1 | - | 17 | 17 | - | 3 | 3 | 20 |
| c) Ornamental Plants | | | | | | | | |
| Nursery Management | - | - | - | - | - | - | - | - |
| Management of potted plants | - | - | - | - | - | - | - | - |
| Export potential of ornamental plants | - | - | - | - | - | - | - | - |
| Propagation techniques of Ornamental Plants | - | - | - | - | - | - | - | - |
| d) Plantation crops | | | | | | | | |
| Production and Management technology | 1 | 25 | 2 | 27 | 3 | - | 3 | 30 |
| Processing and value addition | - | - | - | - | - | - | - | - |
| e) Tuber crops | | | | | | | | |
| Production and Management technology | - | - | - | - | - | - | - | - |
| Processing and value addition | - | - | - | - | - | - | - | - |
| f) Spices | | | | | | | | |
| Production and Management technology | 3 | 68 | - | 68 | 2 | - | 2 | 70 |
| Processing and value addition | - | - | - | - | - | - | - | - |
| g) Medicinal and Aromatic Plants | | | | | | | | |
| Nursery management | - | - | - | - | - | - | - | - |
| Production and management technology | - | - | - | - | - | - | - | - |
| Post harvest technology and value addition | - | - | - | - | - | - | - | - |
| III Soil Health and Fertility Management | | | | | | | | |
| Soil fertility management | - | - | - | - | - | - | - | - |
| Soil and Water Conservation | 1 | 40 | - | 40 | - | - | - | 40 |
| Integrated Nutrient Management | - | - | - | - | - | - | - | - |
| Production and use of organic inputs | - | - | - | - | - | - | - | - |
| Management of Problematic soils | - | - | - | - | - | - | - | - |
| Micro nutrient deficiency in crops | - | - | - | - | - | - | - | - |
| Nutrient Use Efficiency | - | - | - | - | - | - | - | - |
| Soil and Water Testing | - | - | - | - | - | - | - | - |
| IV Livestock Production and Management | | | | | | | | |
| Dairy Management | 1 | 10 | 5 | 15 | 3 | 2 | 5 | 20 |
| Poultry Management | - | - | - | - | - | - | - | - |
| Piggery Management | - | - | - | - | - | - | - | - |
| Rabbit Management/goat | - | - | - | - | - | - | - | - |
| Disease Management | 4 | 81 | 9 | 90 | 9 | 11 | 20 | 110 |
| Feed management | 1 | 30 | - | 30 | 5 | - | 5 | 35 |
| Production of quality animal products | 1 | 15 | 5 | 20 | 3 | 2 | 5 | 25 |
| 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 | 2 | - | 46 | 46 | - | 9 | 9 | 55 |
| Minimization of nutrient loss in processing | - | - | - | - | - | - | - | - |
| Gender mainstreaming through SHGs | - | - | - | - | - | - | - | - |
| Storage loss minimization techniques | - | - | - | - | - | - | - | - |

| | | | | | | | | |
|---|---|----|----|----|----|---|----|----|
| Value addition | 2 | - | 47 | 47 | - | 8 | 8 | 55 |
| Income generation activities for empowerment of rural Women | - | - | - | - | - | - | - | - |
| Location specific drudgery reduction technologies | 2 | - | 55 | 55 | - | 5 | 5 | 60 |
| Rural Crafts | 1 | - | 16 | 16 | - | 4 | 4 | 20 |
| Women and child care | - | - | - | - | - | - | - | - |
| VI Agril. Engineering | | | | | | | | |
| Installation and maintenance of micro irrigation systems | - | - | - | - | - | - | - | - |
| Use of Plastics in farming practices | - | - | - | - | - | - | - | - |
| Production of small tools and implements | - | - | - | - | - | - | - | - |
| Repair and maintenance of farm machinery and implements | - | - | - | - | - | - | - | - |
| Small scale processing and value addition | - | - | - | - | - | - | - | - |
| Post Harvest Technology | - | - | - | - | - | - | - | - |
| VII Plant Protection | | | | | | | | |
| Integrated Pest Management | 3 | 67 | - | 67 | 18 | - | 18 | 85 |
| Integrated Disease Management | 2 | 43 | - | 43 | 2 | - | 2 | 45 |
| Bio-control of pests and diseases | - | - | - | - | - | - | - | - |
| Production of bio control agents and bio pesticides | - | - | - | - | - | - | - | - |
| VIII Fisheries | | | | | | | | |
| Integrated fish farming | - | - | - | - | - | - | - | - |
| Carp breeding and hatchery management | - | - | - | - | - | - | - | - |
| Carp fry and fingerling rearing | - | - | - | - | - | - | - | - |
| Composite fish culture | - | - | - | - | - | - | - | - |
| Hatchery management and culture of freshwater prawn | - | - | - | - | - | - | - | - |
| Breeding and culture of ornamental fishes | - | - | - | - | - | - | - | - |
| Portable plastic carp hatchery | - | - | - | - | - | - | - | - |
| Pen culture of fish and prawn | - | - | - | - | - | - | - | - |
| Shrimp farming | - | - | - | - | - | - | - | - |
| Edible oyster farming | - | - | - | - | - | - | - | - |
| Pearl culture | - | - | - | - | - | - | - | - |
| Fish processing and value addition | - | - | - | - | - | - | - | - |
| IX Production of Inputs at site | | | | | | | | |
| Seed Production | - | - | - | - | - | - | - | - |
| Planting material production | - | - | - | - | - | - | - | - |
| Bio-agents production | - | - | - | - | - | - | - | - |
| Bio-pesticides production | - | - | - | - | - | - | - | - |
| Bio-fertilizer production | - | - | - | - | - | - | - | - |
| Vermi-compost production | - | - | - | - | - | - | - | - |
| Organic manures production | - | - | - | - | - | - | - | - |
| Production of fry and fingerlings | - | - | - | - | - | - | - | - |
| Production of Bee-colonies and wax sheets | - | - | - | - | - | - | - | - |
| Small tools and implements | - | - | - | - | - | - | - | - |
| Production of livestock feed and fodder | - | - | - | - | - | - | - | - |
| Production of Fish feed | - | - | - | - | - | - | - | - |
| X Capacity Building and Group Dynamics | | | | | | | | |
| Leadership development | - | - | - | - | - | - | - | - |
| Group dynamics | - | - | - | - | - | - | - | - |
| Formation and Management of SHGs | - | - | - | - | - | - | - | - |
| Mobilization of social capital | - | - | - | - | - | - | - | - |
| Entrepreneurial development of farmers/youths | - | - | - | - | - | - | - | - |
| WTO and IPR issues | - | - | - | - | - | - | - | - |

| | | | | | | | | |
|---|-----------|------------|------------|------------|-----------|-----------|------------|------------|
| XI Agro-forestry | | | | | | | | |
| Production technologies | - | - | - | - | - | - | - | - |
| Nursery management | - | - | - | - | - | - | - | - |
| Integrated Farming Systems | - | - | - | - | - | - | - | - |
| Sponsored training | - | - | - | - | - | - | - | - |
| TOTAL | 35 | 580 | 202 | 782 | 74 | 44 | 118 | 900 |
| (B) RURAL YOUTH | | | | | | | | |
| Mushroom Production | - | - | - | - | - | - | - | - |
| Bee-keeping | - | - | - | - | - | - | - | - |
| Integrated farming | 2 | 45 | 5 | 50 | 8 | 2 | 10 | 60 |
| Seed production | - | - | - | - | - | - | - | - |
| Production of organic inputs | - | - | - | - | - | - | - | - |
| Integrated Farming | - | - | - | - | - | - | - | - |
| Planting material production | - | - | - | - | - | - | - | - |
| Vermi-culture | - | - | - | - | - | - | - | - |
| Sericulture | - | - | - | - | - | - | - | - |
| Protected cultivation of vegetable crops | - | - | - | - | - | - | - | - |
| Commercial fruit production | - | - | - | - | - | - | - | - |
| Repair and maintenance of farm machinery and implements | - | - | - | - | - | - | - | - |
| Nursery Management of Horticulture crops | - | - | - | - | - | - | - | - |
| Training and pruning of orchards | - | - | - | - | - | - | - | - |
| Value addition | 1 | 5 | 20 | 25 | 5 | 5 | 10 | 35 |
| Production of quality animal products | - | - | - | - | - | - | - | - |
| Dairying | - | - | - | - | - | - | - | - |
| Sheep and goat rearing | - | - | - | - | - | - | - | - |
| Quail farming | - | - | - | - | - | - | - | - |
| Piggery | - | - | - | - | - | - | - | - |
| Rabbit farming | - | - | - | - | - | - | - | - |
| Poultry production | - | - | - | - | - | - | - | - |
| Ornamental fisheries | - | - | - | - | - | - | - | - |
| Para vets | - | - | - | - | - | - | - | - |
| Para extension workers | - | - | - | - | - | - | - | - |
| Composite fish culture | - | - | - | - | - | - | - | - |
| Freshwater prawn culture | - | - | - | - | - | - | - | - |
| Shrimp farming | - | - | - | - | - | - | - | - |
| Pearl culture | - | - | - | - | - | - | - | - |
| Cold water fisheries | - | - | - | - | - | - | - | - |
| Fish harvest and processing technology | - | - | - | - | - | - | - | - |
| Fry and fingerling rearing | - | - | - | - | - | - | - | - |
| Small scale processing | - | - | - | - | - | - | - | - |
| Post Harvest Technology | - | - | - | - | - | - | - | - |
| Tailoring and Stitching | - | - | - | - | - | - | - | - |
| Rural Crafts | - | - | - | - | - | - | - | - |
| TOTAL | 3 | 50 | 25 | 75 | 13 | 7 | 20 | 95 |
| (C) Extension Personnel | | | | | | | | |
| Productivity enhancement in field crops | 1 | 21 | - | 21 | 4 | - | 4 | 25 |
| Integrated Pest Management | - | - | - | - | - | - | - | - |
| Integrated Nutrient management | - | - | - | - | - | - | - | - |
| Rejuvenation of old orchards | - | - | - | - | - | - | - | - |
| Protected cultivation technology | - | - | - | - | - | - | - | - |
| Formation and Management of SHGs | - | - | - | - | - | - | - | - |
| Group Dynamics and farmers organization | - | - | - | - | - | - | - | - |
| Information networking among farmers | - | - | - | - | - | - | - | - |
| Capacity building for ICT application | - | - | - | - | - | - | - | - |

| | | | | | | | | | |
|---|-----------|------------|------------|------------|-----------|-----------|------------|-------------|---|
| Care and maintenance of farm machinery and implements | - | - | - | - | - | - | - | - | - |
| WTO and IPR issues | - | - | - | - | - | - | - | - | - |
| Management in farm animals | - | - | - | - | - | - | - | - | - |
| Livestock feed and fodder production | - | - | - | - | - | - | - | - | - |
| Household food security | - | - | - | - | - | - | - | - | - |
| Women and Child care | - | - | - | - | - | - | - | - | - |
| Low cost and nutrient efficient diet designing | - | - | - | - | - | - | - | - | - |
| Production and use of organic inputs | - | - | - | - | - | - | - | - | - |
| Gender mainstreaming through SHGs | - | - | - | - | - | - | - | - | - |
| Any other (Pl. Specify) | - | - | - | - | - | - | - | - | - |
| Total | 1 | 21 | - | 21 | 4 | - | 4 | 25 | |
| GRAND TOTAL | 39 | 651 | 227 | 878 | 91 | 51 | 142 | 1020 | |

Details of training programmes attached in **Annexure - I**

3.5. Extension Activities (including activities of FLD programmes)

| Nature of Extension Activity | No. of activities | Farmers | | | Extension Officials | | | Total | | |
|--|-------------------|---------|--------|-------|---------------------|--------|-------|-------|--------|-------|
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Field Day | 20 | 350 | 150 | 500 | 5 | - | 5 | 355 | 150 | 505 |
| Kisan Mela | 1 | 300 | 100 | 400 | 10 | - | 10 | 310 | 100 | 410 |
| Kisan Ghosthi | 20 | 200 | 50 | 250 | - | - | - | 200 | 50 | 250 |
| Exhibition | 5 | 250 | 125 | 375 | - | - | - | 250 | 125 | 375 |
| Film Show | 15 | 150 | 50 | 200 | - | - | - | 150 | 50 | 200 |
| Farmers Seminar | 5 | 100 | 50 | 150 | - | - | - | 100 | 50 | 150 |
| Workshop | 1 | 50 | 20 | 70 | - | - | - | 50 | 20 | 70 |
| Group meetings | 4 | 100 | 25 | 125 | - | - | - | 100 | 25 | 125 |
| Lectures delivered as resource persons | 10 | - | - | - | - | - | - | - | - | - |
| Newspaper coverage | 5 | - | - | - | - | - | - | - | - | - |
| Radio talks | - | - | - | - | - | - | - | - | - | - |
| TV talks | - | - | - | - | - | - | - | - | - | - |
| Popular articles | 10 | - | - | - | - | - | - | - | - | - |
| Extension Literature | 10 | - | - | - | - | - | - | - | - | - |
| Advisory Services | | | | | | | | | | |
| Scientific visit to farmers field | 100 | - | - | - | - | - | - | - | - | - |
| Farmers visit to KVK | 1000 | - | - | - | - | - | - | - | - | - |
| Diagnostic visits | 20 | - | - | - | - | - | - | - | - | - |
| Exposure visits | | | | | | | | | | |
| Ex-trainees Sammelan | 2 | - | - | - | - | - | - | - | - | - |
| Soil health Camp | 2 | - | - | - | - | - | - | - | - | - |
| Animal Health Camp | 2 | - | - | - | - | - | - | - | - | - |
| Agri mobile clinic | - | - | - | - | - | - | - | - | - | - |
| Soil test campaigns | 2 | - | - | - | - | - | - | - | - | - |
| Farm Science Club Conveners meet | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | |
|---|-------------|-------------|------------|-------------|-----------|----------|-----------|-------------|------------|-------------|
| Self Help Group Conveners meetings | - | - | - | - | - | - | - | - | - | - |
| Mahila Mandals Conveners meetings | 1 | - | - | - | - | - | - | - | - | - |
| Celebration of important days (specify) | 5 | - | - | - | - | - | - | - | - | - |
| Krishi Mohostva | 1 | - | - | - | - | - | - | - | - | - |
| Krishi Rath | 1 | - | - | - | - | - | - | - | - | - |
| Pre Kharif workshop | 1 | - | - | - | - | - | - | - | - | - |
| Pre Rabi workshop | 1 | - | - | - | - | - | - | - | - | - |
| PPVFRA workshop | 1 | - | - | - | - | - | - | - | - | - |
| Any Other (Specify) | - | - | - | - | - | - | - | - | - | - |
| Total | 1245 | 1500 | 570 | 2070 | 15 | - | 15 | 1515 | 570 | 2085 |

3.6. Target for Production and supply of Technological products

SEED MATERIALS

| Sl. No. | Crop | Variety | Quantity (q) |
|---------------------|-----------|----------------|--------------|
| CEREALS | | | |
| | Wheat | GJW-463 | 100 |
| OILSEEDS | | | |
| | Groundnut | GG-20 Breeder | 80 |
| | Groundnut | GJG-17 Breeder | 25 |
| | Groundnut | GJG-22 Breeder | 15 |
| PULSES | - | - | - |
| VEGETABLES | - | - | - |
| OTHERS (Sp.) | - | - | - |

PLANTING MATERIALS

| Sl. No. | Crop | Variety | Quantity (Nos.) |
|-------------------------|---------|----------------|-----------------|
| FRUITS | | | |
| | Coconut | DXT | 4000 |
| SPICES | | | |
| VEGETABLES | | | |
| | Brinjal | GJLB-4 ; GJB-2 | 5000 |
| | Tomato | GT-1; JT - 3 | 5000 |
| FOREST SPECIES | | | |
| | - | - | - |
| ORNAMENTAL CROPS | | | |
| | - | - | - |
| Total | | | 14000 |

Bio-products

| Sl. No. | Product Name | Species | Quantity | |
|-----------------------|--------------|---------|----------|------|
| | | | No | (kg) |
| BIO PESTICIDES | | | | |
| 1 | - | - | - | - |

LIVESTOCK

| Sl. No. | Type | Breed | Quantity | |
|-------------|------|-------|----------|------|
| | | | (Nos) | Unit |
| Cattle | - | - | - | - |
| Goat | - | - | - | - |
| Sheep | - | - | - | - |
| Poultry | - | - | - | - |
| Pig farming | - | - | - | - |
| Fisheries | - | - | - | - |

4. Literature to be Developed/Published**A. KVK News Letter**

Date of start : 01/04/2019
 Number of copies to be published : e-News Letter

B. Literature developed/published

| S.No. | Topic | Number |
|--------------|--------------------------------|-----------|
| 1 | Research paper each scientist | 2 |
| 2 | Technical reports | 6 |
| 3 | News letters | 4 |
| 4 | Training manual all discipline | - |
| 5 | Popular article | 5 |
| 6 | Extension literature | 10 |
| Total | | 27 |

C. Details of Electronic Media to be produced

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

D. Success stories/Case studies identified for development as a case**1. Value Addition in wheat through cleaning and grading****1. Introduction**

Name - Smt. Hansaben Ramjibhai Dhokia
 Address - Village: Choliyana Tal. Kutiyana, Dist.: Porbandar, Gujarat
 Contact No. - 94272 27273

2. Achievement

She started the activity of value addition in wheat by cleaning & grading. Smt. Hansaben and her husband Shri Ramjibhai procured 150 quintal wheat from other farmers of the surrounding area. Smt. Hansaben has owned grading machine for cleaning and grading of the seeds. The quantity of wheat were cleaned and graded at her farm and packed. She sold the value added wheat at APMC, Gondal. Thus by value addition through primary processing, Smt. Hansaben could earn additional profit of ` 56000.

She procured 150 quintals of wheat @ ` 1550 per quintal from surrounding farmers. Cost of primary processing of cleaning, grading and packing was ` 200 per quintal. Thus the cost of value added wheat was ` 1750 per quintal. She sold the wheat @ ` 2125 per quintal at APMC Gondal, Gujarat and earned additional profit of ` 375 per quintal. Her total profit was ` 56000.

A farmers can secure better profitability through value addition and processing of their agricultural produces.

3. Importance for fallow farmers

Smt. Hansaben has set an example for other farm women of the district to start the value addition of agricultural produce to maximize income and profitability.

4. Photographs



2. Entrepreneurship Development through Value Addition of Mango

1. Introduction

- Name - Shri Satishbhai Gadhvi
- Address - Village: Segaras Tal. Kutiyana, Dist.: Porbandar, Gujarat
- Age of Farmer - 32 yr

2. Achievement

Shri Satishbhai Gadhavi of Segras village of Porbandar district is a very enthusiastic and business oriented person. Home Scientist of KVK had imparted trainings on preparation of mango pickles by using solar cooker in the village. Shri Satishbhai also provided solar cooker to conduct OFT on mango pickles by KVK. He was imparted skill for preparation of mango pickles in solar cooker and motivated for preparation of mango pickles and start as business. Shri Satishbhai was inspired through the training programme and OFT conducted on preparation of mango pickles and started preparation of mango pickles in solar cooker on large scale and started business since last three years. He is preparing 200 kg pickle every day in the mango season.

In a season he is preparing approximately 4000 kg of mango pickle and selling it in the domestic market. The cost of preparation of pickle is very less due to use of solar cooker as compared to traditional method of preparation. From this business he is earning approximately Rs. 2.0 lakh every year. He is fetching more profit due to use of solar cooker.

A considerable income can be secured by preparation of mango pickles specially by using solar cooker.

3. Importance for fallow farmers

Shri Satishbhai motivated many farmers of the district to start entrepreneurship in the field of value addition and processing of the agricultural produce.

4. Photographs



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

A. Practicing Farmers

B. Rural Youth

C. In-service personnel

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) -

| Name of the village | Name of the block | Taluka | Year |
|---|-------------------|-----------|------|
| Khapat Palkhada Rinavala Kuchhadi Degam | Cluster I | Porbandar | 2018 |
| Ramgadh Aaditpara Doltgadh Daiyar Pipliya | Cluster II | Ranavav | 2018 |
| Choliyana Sindhpur Gokran Farer Hamadpara | Cluster III | Kutiyana | 2018 |

- ii. No. of farm families selected per village :
- iii. No. of survey/PRA conducted : 15
- iv. No. of technologies taken to the adopted villages - 54
- v. Name of the technologies found suitable by the farmers of the adopted villages:
- vi. Impact (production, income, employment, area/technological– horizontal/vertical)
- vii. Constraints if any in the continued application of these improved technologies

6. LINKAGES**6.1. Functional linkage with different organizations**

| S. No | Name of organization | Nature of Linkage |
|-------|-------------------------------|--|
| 1 | ATMA | Propagation of modern agricultural technology as a resource person and through various extension activities. |
| 2 | District Agricultural Officer | Propagation of modern agricultural technology as a resource person and through various extension activities. |
| 3 | Jilla Panchyat | Propagation of modern agricultural technology as a resource person and through various extension activities. |
| 4 | State Fisheries Department | Propagation of modern agricultural technology as a resource person and through various extension activities. |
| 5 | DRDA | Propagation of modern agricultural technology as a resource person and through various extension activities. |
| 6 | DWDU | Propagation of modern agricultural technology as a resource person and through various extension activities. |

6.2. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

| S. No. | Programme | Nature of linkage |
|--------|------------------------------|------------------------------------|
| 1 | Training | KVK Scientist as a resource person |
| 2 | Farmer Field school | KVK Scientist as a resource person |
| 3 | Kishan Gosthi | KVK Scientist as a resource person |
| 4 | Farmer Scientist Interaction | KVK Scientist as a resource person |

6.3. E-linkage during 2019-20

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

6.4. Give details of programmes under National Horticultural Mission

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

6.5. Nature of linkage with National Fisheries Development Board

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

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

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

7.0 Convergence with other agencies and departments: -

8. Innovator Farmer's Meet 2019- 2020

| S.No. | Particulars | Details |
|-------|--|-----------|
| 1 | Are you planning for conducting Farm Innovators meet in your district? | Yes |
| | If Yes likely month of the meet | September |
| | Brief action plan in this regard | |

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

| S. No | Thematic area | Title of the FFS | Budget proposed in Rs. |
|-------|---|--|------------------------|
| 1 | Integrated Nutrient management | Integrated Nutrient management in Major <i>Kharif</i> crops | 20000/- |
| 2 | Integrated Pest and Diseases management | Integrated Pest and Diseases management in Major <i>Kharif</i> crops | 20000/- |

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

| Name of KVK | Feedback | | | |
|-------------|--|--|--|---|
| | Technology appropriations | Methodology used | Benefits of OFT/FLD | Future Adoption |
| Porbandar | INM in groundnut <i>Trichoderma</i> in groundnut INM in cotton Pink boll worm in cotton Improved variety of cumin (GC-4) | Trainings FLDs, field days and Advisory services | Yield, quality and net return increased as the cost of cultivation reduced | Improved variety of chick pea (GJG-3) INM in groundnut and cotton Use of Biofertilizers MISs |

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

| Name of KVK | Subject | Feedback basic of OFT on Technology Tested |
|-------------|------------------|--|
| Porbandar | Crop Production | <ul style="list-style-type: none"> Soil configuration and MISs for cumin may be tested. |
| | Horticulture | <ul style="list-style-type: none"> Techno economical feasibility of poly house for costal belt of South Saurashtra Agro climatic Zone should be tested. |
| | Plant Protection | <ul style="list-style-type: none"> Reasons for resurgence of white grub and control measures based on may be suggested. Package for fruit fly management may be modified Efficacy of newer technical of pesticides, fungicides and herbicides should be tested and recommended if possible. Effective Management Package of Pink Ball Worm in Bt cotton should be developed. |
| | Home Science | <ul style="list-style-type: none"> Effect of sprouted pulses in regular diet may be studied in detail. Quality of meal prepared in solar cooker may be studied in detail. |
| | Fisheries | <ul style="list-style-type: none"> Land availability is the main constraint in the promotion of brackish water aquaculture & demarcation of potential land needs to be done for farmers. Technology / practices developed by institute may be made available to farmers at no cost. |
| | Animal Husbandry | <ul style="list-style-type: none"> Study of inbreeding in milch animals |

11. Utilization of hostel facilities

| S. No. | Programme | No. of days |
|--------|--------------|-------------|
| 1 | | |
| 2 | | |
| | Total | |

TRAINING PROGRAMME

i) Farmers & Farm women (On Campus)

| Date | Clientele | Title of the training programme | Duration in days | Number of participants | | | Number of SC/ST | | | G. Total |
|------------------------|-----------|--|------------------|------------------------|----|----|-----------------|---|---|----------|
| | | | | M | F | T | M | F | T | |
| Crop Production | | | | | | | | | | |
| | PF | Weed Management practices in important <i>Kharif</i> crops | 1 | 15 | - | 15 | 5 | - | 5 | 20 |
| | PF | Nursery Management techniques for various crops | 1 | 15 | - | 15 | 5 | - | 5 | 20 |
| | PF | Recent advances in production technology Fodder Crops | 1 | 15 | - | 15 | - | - | - | 15 |
| | PF | Production of Organic inputs (Vermicompost, FYM etc.) | 1 | 15 | - | 15 | 5 | - | 5 | 20 |
| Horticulture | | | | | | | | | | |
| | PF | Nursery Raising techniques for vegetables | 1 | 15 | - | 15 | - | - | - | 15 |
| | PF | Protected cultivation (Green house, Net house, tunnels) | 1 | 20 | - | 20 | - | - | - | 20 |
| | FW | Value addition in flowers & fruits | 1 | - | 17 | 17 | - | 3 | 3 | 20 |
| | PF | Recent advances in production technologies of spices and vegetables | 1 | 20 | - | 20 | - | - | - | 20 |
| Livestock prod. | | | | | | | | | | |
| | PF/FW | ITK practices in disease management of farm animals | 1 | 16 | 4 | 20 | 4 | 1 | 5 | 25 |
| | PF/FW | Management of Farm animals | 1 | 10 | 5 | 15 | 3 | 2 | 5 | 20 |
| | PF/FW | Hygienic milk production and management of mastitis in milch animals | 1 | 15 | 5 | 20 | 3 | 2 | 5 | 25 |
| Agril. Engg. | | | | | | | | | | |
| | PF | | | | | | | | | |
| Home Sc. | | | | | | | | | | |
| | FW | Designing & development for high nutrient efficiency diet | 1 | - | 16 | 16 | - | 4 | 4 | 20 |
| | FW | Value Addition in agriculture produce | 1 | - | 17 | 17 | - | 3 | 3 | 20 |
| | FW | Rural Craft | 1 | - | 16 | 16 | - | 4 | 4 | 20 |
| Plan prot. | | | | | | | | | | |
| | PF | Integrated Pest & Diseases Management in major <i>Kharif</i> crops | 1 | 12 | - | 12 | 8 | - | 8 | 20 |
| | PF | Integrated Pest & Diseases Management in major <i>Rabi</i> crops | 1 | 18 | - | 18 | 2 | - | 2 | 20 |
| | RY | Integrated Pest & Diseases Management in vegetable crops | 1 | 15 | 5 | 20 | 3 | 2 | 5 | 25 |
| Fisheries | | | | | | | | | | |
| | PF | | | | | | | | | |
| Soil Health | | | | | | | | | | |
| | PF | | | | | | | | | |

i) Farmers & Farm women (Off Campus)

| Date | Clientele | Title of the training programme | Duration in days | No. of participants | | | Number of SC/ST | | | G. Total |
|-------------------------------|-----------|---|------------------|---------------------|----|----|-----------------|---|----|----------|
| | | | | M | F | T | M | F | T | |
| Crop Production | | | | | | | | | | |
| | PF | Advances in production technology of groundnut, cotton and INM | 1 | 31 | - | 31 | 4 | - | 4 | 35 |
| | PF | Crop diversification, soil health management, Soil sampling techniques & importance of soil analysis | 1 | 20 | - | 20 | 5 | - | 5 | 25 |
| | PF | Advances in production technologies of rabi crops, INM and organic farming | 1 | 30 | - | 30 | 5 | - | 5 | 35 |
| Horticulture | | | | | | | | | | |
| | PF | Layout and Management of mango orchards | 1 | 25 | - | 25 | - | - | - | 25 |
| | PF/FW | Production Technology of Plantation Crops (Date Palm, Coconut) | 1 | 25 | 2 | 27 | 3 | - | 3 | 30 |
| | PF | Production & Management Technology of Spices (cumin, coriander) | 1 | 25 | - | 25 | - | - | - | 25 |
| | PF | Cultivation of spices, onion and garlic | 1 | 23 | - | 23 | 2 | - | 2 | 25 |
| Live Stock Production. | | | | | | | | | | |
| | PF | Disease, nutrition management & ITK practices in livestock | 1 | 25 | - | 25 | - | 5 | 5 | 30 |
| | PF/FW | Care of pregnant animals and Care after calving | 1 | 20 | 5 | 25 | - | 5 | 5 | 30 |
| | PF | Fodder management | 1 | 30 | - | 30 | 5 | - | 5 | 35 |
| | PF | Deworming programme, control of parasites and artificial insemination in farm animals | 1 | 20 | - | 20 | 5 | - | 5 | 25 |
| Agril. Engg. | | | | | | | | | | |
| | PF | | | | | | | | | |
| Home Sc. | | | | | | | | | | |
| | FW | Drudgery reducing technologies for farm women in agriculture and kitchen gardening | 1 | - | 20 | 20 | - | 5 | 5 | 25 |
| | FW | Nutritional diet for farm women, pregnant women, children & adolescent girls and Importance of vaccination and health care for infant | 1 | - | 30 | 30 | - | 5 | 5 | 35 |
| | RY | Preservation of fruits, vegetables & preparation of different types of masala | 1 | 5 | 20 | 25 | 5 | 5 | 10 | 35 |
| | FW | Drudgery reduction technologies | 1 | - | 35 | 35 | - | - | - | 35 |
| | FW | Preparation of bakery products | 1 | - | 30 | 30 | - | 5 | 5 | 35 |
| Plant Protection | | | | | | | | | | |
| | PF | IPDM in major <i>kharif</i> crops | 1 | 30 | - | 30 | 5 | - | 5 | 35 |

| | | | | | | | | | | |
|--------------------|----|---|---|----|---|----|---|---|---|----|
| | PF | Management of white grub in groundnut & pink ballworm in cotton | 1 | 25 | - | 25 | 5 | - | 5 | 30 |
| | PF | IPDM in major <i>rabi</i> crops | 1 | 25 | - | 25 | - | - | - | 25 |
| | RY | Biological control of pest & diseases in major crops | 1 | 30 | - | 30 | 5 | - | 5 | 35 |
| Fisheries | | | | | | | | | | |
| | PF | | | | | | | | | |
| Soil health | | | | | | | | | | |
| | PF | Soil Fertility Management | 2 | 40 | - | 40 | - | - | - | 40 |

ii) Vocational training programmes for Rural Youth

| Crop / Enterprise | Identified Thrust Area | Training title* | Month | Duration (days) | No. of Participants | | | SC/ST participants | | | G. Total |
|-------------------|------------------------|--|-------|-----------------|---------------------|---|----|--------------------|---|---|----------|
| | | | | | M | F | T | M | F | T | |
| - | PIS | Production of organic inputs (vermicomposting) | - | 21 | 15 | - | 15 | - | - | - | 15 |
| Vegetables | HOV | Plug Nursery raising technique for business | - | 21 | 15 | - | 15 | - | - | - | 15 |

iii) Training programme for extension functionaries

| Date | Clientele | Title of the training programme | Duration in days | No. of participants | | | Number of SC/ST | | | G. Total |
|------------------|-------------------------|--|------------------|---------------------|---|----|-----------------|---|---|----------|
| | | | | M | F | T | M | F | T | |
| On Campus | | | | | | | | | | |
| - | Extension functionaries | Integrated crop management-major crops | 3 | 21 | 0 | 21 | 4 | - | 4 | 25 |

iv) Sponsored programmes

| Discipline | Sponsoring agency | Clientele | Title of the training programme | No. of course | No. of participants | | | Number of SC/ST | | | G. Total |
|--|-------------------|-----------|---|---------------|---------------------|-----------|------------|-----------------|-----------|-----------|------------|
| | | | | | M | F | T | M | F | T | |
| a) Sponsored training programme | | | | | | | | | | | |
| Crop Production | ATMA | PF | Soil health management | 2 | 40 | 5 | 45 | 8 | 2 | 10 | 55 |
| Horticulture | ATMA | PF | Production of organic spices | 2 | 42 | 8 | 50 | 6 | 4 | 10 | 60 |
| Plant Protection | ATMA | PF | Integrated management of pink ball worm in cotton | 2 | 40 | 15 | 55 | 5 | 4 | 9 | 64 |
| Plant Protection | ATMA | PF | Management of white grub in groundnut | 2 | 50 | 14 | 64 | 2 | 2 | 4 | 68 |
| Animal Husbandry | ATMA | PF | Artificial insemination | 2 | 45 | 20 | 65 | 8 | 7 | 15 | 80 |
| Fisheries | ATMA | PF | Aquaculture Practices | 2 | 50 | 10 | 60 | - | - | - | 60 |
| Total | | | | 12 | 267 | 72 | 339 | 29 | 19 | 48 | 387 |
| b) Sponsored research programme | | | | | | | | | | | |
| Total | | | | - | - | - | - | - | - | - | - |
| c) Any special programmes | | | | | | | | | | | |
| Total | | | | - | - | - | - | - | - | - | - |

Budget - Details of budget utilization (2018-19) up to 31 March 2019 (14th February, 2019)

| S. No. | Particulars | Sanctioned | Released | Expenditure |
|---------------------|---|-------------------|-----------------|--------------------|
| 24.1 | Recurring Contingencies | | | |
| 24.1.1 | Pay & Allowances | 9000000 | 6900000 | 4716817 |
| 24.1.2 | Traveling allowances | 100000 | 50000 | 32453 |
| 24.1.3 | Contingencies | 950000 | 850000 | 730932 |
| 24.1.4. <i>I</i> | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance | 300000 | - | - |
| <i>B</i> | POL, repair of vehicles, tractor and equipments | 300000 | - | - |
| <i>C</i> | Meals/refreshment for trainees | 100000 | - | - |
| <i>D</i> | Training material | 50000 | - | - |
| <i>E</i> | Frontline demonstration except oilseeds and pulses | 80000 | - | - |
| <i>F</i> | On farm testing | 50000 | - | - |
| <i>G</i> | Training of extension functionaries | 70000 | - | - |
| <i>H</i> | Maintenance of buildings | - | - | - |
| <i>I</i> | Establishment of Soil, Plant & Water Testing Laboratory | - | - | - |
| <i>J</i> | Library | - | - | - |
| 24.1 | Total Recurring | 950000 | - | - |
| 24.2 | Non-Recurring Contingencies | - | - | - |
| 24.2.1 | Works | - | - | - |
| 24.2.2 | Equipments including SWTL & Furniture | - | - | - |
| 24.2.3 | Vehicle (Four wheeler/Two wheeler, please specify) | - | - | - |
| 24.2.4 | Library | - | - | - |
| 24.2 | Total Non Recurring | - | - | - |
| 24.3 | REVOLVING FUND | - | - | - |
| 24.4 | GRAND TOTAL (A+B+C) | 10050000 | 7800000 | 5480202 |

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

| S. No. | Particulars | BE 2019-20 proposed (Rs.) |
|-------------|--|---------------------------|
| 25.1 | Recurring Contingencies | |
| 25.1.1 | Pay & Allowances | 8000000 |
| 25.1.2 | Traveling allowances | 100000 |
| 25.1.3 | Contingencies | 1000000 |
| A | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 300000 |
| B | POL, repair of vehicles, tractor and equipments | 300000 |
| C | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained) | 150000 |
| D | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | 50000 |
| E | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | 80000 |
| F | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | 50000 |
| G | Training of extension functionaries | 70000 |
| H | Maintenance of buildings | - |
| I | Establishment of Soil, Plant & Water Testing Laboratory | - |
| J | Library | - |
| 25.1 | TOTAL Recurring Contingencies | 9100000 |
| 25.2 | Non-Recurring Contingencies | - |
| 25.2.1 | Works | - |
| 25.2.2 | Equipments including SWTL & Furniture | - |
| 25.2.3 | Vehicle (Four wheeler/Two wheeler, please specify) | - |
| 25.2.4 | Library (Purchase of assets like books & journals) | - |
| 25.2 | TOTAL Non-Recurring Contingencies | - |
| 25.3 | REVOLVING FUND | - |
| 25.4 | GRAND TOTAL | 9100000 |