

**ICAR-ATARI, Pune**  
**DETAILS OF ANNUAL PROGRESS REPORT OF KVKs DURING 2020**  
**(1<sup>st</sup> January 2020 to 31<sup>st</sup> 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)   |
|---|-----------------------------|-------------------------|---------------------|--|
|   | Office                      | FAX                     |                     |  |
| Krishi Vigyan Kendra,<br>Junagadh Agricultural University,<br>Targhadia, (Dist.: Rajkot)<br>(Gujarat) - 360 003 | Office<br>(0281)<br>2784170 | FAX<br>0281)<br>2784170 | kvkrajkot@gmail.com | <a href="http://www.jau.in">www.jau.in</a> |

**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,<br>Junagadh (Gujarat) | (0285)<br>2672080 | (0285)<br>2672653 | <a href="mailto:dee@jau.in">dee@jau.in</a> | <a href="http://www.jau.in">www.jau.in</a> |

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

| Name              | Telephone / Contact |            |  |
|-------------------|---------------------|------------|--|
|                   | Office              | Mobile     | Email  |
| Dr. B. B. Kabaria | (0281) 2784170      | 9374202518 | <a href="mailto:drbbkabaria@gmail.com">drbbkabaria@gmail.com</a> |

**1.4. Year of sanction: September – 2004**

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

| Sr. No. | Sanctioned post           | Name of the incumbent | Discipline      | Current Pay Band | Date of joining | If Temporary, pl. indicate the consolidated amount paid (Rs./month) |
|---------|---------------------------|-----------------------|-----------------|------------------|-----------------|---|
| 1       | Senior Scientist and Head | Dr. B. B. Kabaria     | Agril. Ento.    | -                | 16-10-2016      | -   |
| 2       | SMS                       | Dr. M. M. Tajpara     | Animal Science. | 89900/-          | 04-08-2015      | 1,19,522/-  |
| 3       | SMS                       | Dr. J. H. Chaudhary   | Agron.          | 64900/-          | 01-08-2017      | 78,525/-  |
| 4       | SMS                       | Dr. M. K. jadeja      | Agri. Extension | 92500/           | 05-10-2019      | -   |
| 5       | SMS                       | <b>Vacant</b>         | Horti.          | -                | -               | -   |
| 6       | SMS                       | Shri D. P. Sanepara   | Agril. Engg.    | 98300/-          | 01-11-2016      | 1,19,107/-  |
| 7       | SMS                       | Mrs. H. H. Padsumbiya | Home Science    | 89900/-          | 17-08-2006      | 1,08,994/-  |

|    |                     |                      |                |         |            |          |
|----|---------------------|----------------------|----------------|---------|------------|----------|
| 8  | Farm manager        | Shri S. R. Rathva    | Plant breeding | 38090/- | 30-7-2018  | 38,090/- |
| 9  | Programme Assistant | Shri A. B. Dabhi     | Agron.         | 63600/- | 07-08-2014 | 52,976/- |
| 10 | Computer Programmer | Miss. R. T. Padaliya | -              | 47600/- | 03-01-2009 | 57,811/- |
| 11 | Acc. / Sup.         | <b>Vacant</b>        | -              | -       | -          | -        |
| 12 | Steno-grapher       | <b>Vacant</b>        | -              | -       | -          | -        |
| 13 | Driver              | <b>Vacant</b>        | -              | -       | -          | -        |
| 14 | Driver              | <b>Vacant</b>        | -              | -       | -          | -        |
| 15 | Supporting staff    | Smt.U.G.. Zala       | -              | 28800/- | 16-09-2004 | 35,157/- |
| 16 | Supporting staff    | <b>Vacant</b>        | -              | -       | -          | -        |

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

| Sr. No. | Item                      | Area (ha)    |
|---------|---------------------------|--------------|
| 1       | Under Buildings           | 2.87         |
| 2.      | Under Demonstration Units | 0.50         |
| 3.      | Under Crops               | 13.80        |
| 4.      | Horticulture              | 0.50         |
| 5.      | Farm Pond                 | 0.48         |
| 6.      | Others (Road & drainage)  | 1.85         |
|         | <b>Total</b>              | <b>20.00</b> |

### 1.7. Infrastructural Development:

#### A) Buildings

| Sr. No | Name of building        | Source of funding | Stage           |                    |                   |               |                    |                        |
|--------|-------------------------|-------------------|-----------------|--------------------|-------------------|---------------|--------------------|------------------------|
|        |                         |                   | Complete        |                    |                   | Incomplete    |                    |                        |
|        |                         |                   | Completion Date | Plinth area (Sq.m) | Expenditure (Rs.) | Starting Date | Plinth area (Sq.m) | Status of construction |
| 1.     | Administrative Building | KVK               | 31-3-2011       | 550                | 5500000           | -             | -                  | -                      |
| 2.     | Farmers Hostel          | KVK               | 31-3-2011       | 305                | 3000000           | -             | -                  | -                      |
| 3.     | Staff Quarters (6)      | KVK               | 31-3-2011       | 400                | 4000000           | -             | -                  | -                      |
| 4.     | Poly House              | RKVY              | 31-3-09         | 320                | 281602            | -             | -                  | -                      |
| 5      | Net House               | RKVY              | 31-3-09         | 150                | 64498             | -             | -                  | -                      |
| 6.     | Store room              | RKVY              | 9-2-10          | 70.61              | 454500            | -             | -                  | -                      |
| 7.     | Training hall           | RKVY              | 11-2-10         | 190.99             | 1395800           | -             | -                  | -                      |
| 8.     | Processing plant        | RKVY              | 11-2-10         | 197.31             | 1536400           | -             | -                  | -                      |
| 9.     | Implement shed          | RKVY              | 9-2-10          | 77.33              | 297800            | -             | -                  | -                      |
| 10     | Farm Godown             | KVK               | 2012            | -                  | 400000            | -             | -                  | -                      |
| 11     | Processing Unit         | ICAR              | 2019            | 196.80             | 3500000           | -             | -                  | -                      |

**B) Vehicles**

| Type of vehicle | Year of purchase | Cost (Rs.) | Total kms. Run | Present status                      |
|-----------------|------------------|------------|----------------|-------------------------------------|
| Toyota Qualis   | 2004             | 590000     | 369162         | Working                             |
| Tata Sumo       | 2008             | 600000     | 250365         | Not Working, Purchase from MP grant |
| Motorcycle      | 2010             | 50000      | 49409          | Working                             |

**C) Equipments & AV aids**

| Name of the equipment   | Year of purchase | Cost (Rs.) | Present status |
|---|------------------|------------|----------------|
| 1   | 2                | 3          | 4              |
| Generator set   | 2002             | 24900      | Working        |
| Color TV (Akai) with Remote   | 2002             | 13850      | Working        |
| Panasonic PT LC 50 LCD Project  | 2002             | 164368     | Working        |
| PA Audio Vision System  | 2002             | 20000      | Working        |
| Computer System Intel Pentium IV                                      | 2003             | 32000      | Working        |
| Computer Wipro Super Genius Desktop                                   | 2006             | -          | Working        |
| Electronic Kelvinator Refrigerator                                    | 2006             | 10,500     | Working        |
| Solar steel digital water plant                                       | 2006             | 45000      | Working        |
| Balaji Bio Gas Plant  | 2007             | 32000      | Working        |
| Aspee Tractor Mounted Sprayer   | 2007             | 32000      | Working        |
| Laptop Computer (HCL)   | 2008             | 47500      | Working        |
| Air Assisted Blower type sprayer                                      | 2009             | 98750      | Working        |
| Photo copier Machine (Richo)  | 2009             | 115300     | Working        |
| LCD Projector with ceiling mount kit Model-PT-CB50NTE-2GA (Panasonic) | 2009             | 92155      | Working        |
| DVD Home theater system with Speaker (HCL)                            | 2009             | 28000      | Working        |
| LCD TV 22" Model- 22LG30 (L. G.)                                      | 2009             | 27287      | Working        |
| Cotton stalk Shredder   | 2009             | 121000     | Working        |
| Groundnut Digger-Tractor Operated                                     | 2009             | 78500      | Working        |
| Cultivator cum Rotavator  | 2009             | 90000      | Working        |
| Groundnut Decorticator  | 2009             | 95850      | Working        |
| Multi crop Thresher   | 2009             | 114000     | Working        |
| Processing Unit   | 2009             | 1685000    | Working        |
| Plantar – tractor operator  | 2009             | 44000      | Working        |
| Digital Camera (Nikon) P- 90 12.1                                     | 2010             | 24300      | Working        |
| Acer desktop veriten PC   | 2016             | 46032      | Working        |
| Digital Xerox machine with printer                                    | 2016             | 144391     | Working        |
| K-yan pro standerd  | 2016             | 110644     | Working        |
| Home UPS inverters system   | 2016             | 79000      | Working        |

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

| Date       | Name & Designation of Participants   | Salient Recommendations   | Action taken            |
|------------|--|---|-------------------------|
| 1          | 2  | 3   | 4                       |
| 12/03/2020 | Dr. V.P. Chovatiya,<br>Honorable Vice Chancellor, JAU,<br>Junagadh.<br>Dr. B.K. Sagarka,<br>Directorate of Extension,<br>JAU, Junagadh | ➤ FLDs should be conducted with newly released varieties; correction should be made in wheat var. GW-451/GJW-463 instead of GW-361. | All Suggestion accepted |

|  |   |
|--|---|
| Dr. D. S. Hirpara,<br>Res. Sci. (DF), DFRS, JAU, Targhadia                           | <ul style="list-style-type: none"> <li>➤ New crops/plants i.e. <i>Jamun</i> and <i>Rayan</i> should be introduced in the area.</li> <li>➤ OFT should be conducted on newly released variety of brinjal crop.</li> <li>➤ Correction should be made monopodia instead of sympodia for side branches of cotton in OFT of “De-topping in cotton crop”. Also, treatment No. 3 should be taken as de-topping at 75 DAS with de-topping of monopodia branches at 90 DAS.</li> <li>➤ OFT should be conducted on Bypass protein, Bypass fat and Chelated mineral mixture with combine in single animal, if possible.</li> <li>➤ Large sample size should take for significances of results in OFT on “Fortified health management for reducing kid mortality of cow”.</li> <li>➤ Add one more treatment as a control and consult Entomology department, JAU, Junagadh for quantity per trial in OFT on “Preservation techniques of different pulses with organic methods”. Pro super bag should be provided as a input in this OFT.</li> <li>➤ More training should be planned on importance of organic farming with different crops.</li> <li>➤ To conduct training on waste management.</li> <li>➤ Publish success story of cloth stitch under vocational training conducted for SHG.</li> <li>➤ Newspaper coverage and HRD during the year should be included in presentation.</li> <li>➤ Tree plantation should be done in NICRA village.</li> </ul> |
| Dr. G. R. Sharma, Principal, Polytechnic in Agril. Engg., JAU, Targhadia             |   |
| Dr. B. B. Kabaria, Senior Scientist & Head, KVK, JAU, Targhadia, Dist: Rajkot        |   |
| Dr. N. B. Jadav, Scientist & Head, KVK, JAU, Pipalia (Dhoraji), Dist. Rajkot         |   |
| Shri. D. A. Saradava, Scientist & Head, KVK, JAU, Morbi, Dist. Morbi                 |   |
| Shri A.J. Chovatia, Asstt. Director of Agriculture, District Panchayat, Rajkot       |   |
| Shri. N. M. Kamariya, Asstt. Director of Horticulture, Dept. of Horticulture, Rajkot |   |
| Shri M. B. Nasit, Dy. Project Director, ATMA, Rajkot                                 |   |
| Dr. G. K. Vora, Veterinary Officer, Dept. of Animal Husbandry, Kuvadava, Dist:Rajkot |   |
| Dr. Amit H. Patel, Rajkot Dairy (Gopal Dairy), Rajkot                                |   |
| Shri. Vasantbhai Joshi, All India Radio, Rajkot                                      |   |
| Dr. H. C. Chhodvadia, Asstt. Directorate of Extension, JAU, Junagadh                 |   |
| Ritaben Vora, Centre for Environment Education, Jasdan, Dist: Rajkot                 |   |
| Shree Hiteshbhai P. Kyada<br>Village : Rafala,<br>Tal: Rajkot, Dist.: Rajkot         |   |
| Shree Kalyanbhai C. Ramani<br>Village : Lilapur, Tal: Jasdan,<br>Dist.: Rajkot       |   |
| Shree Vinubhai R. Hirpara<br>Village : Lilapur, Tal: Jasdan,<br>Dist.: Rajkot        |   |
| Lilaben Lakhataria<br>Village : Lalavadar,<br>Tal: Vinchhiya, Dist.: Rajkot          |   |
|  |   |

## 2. DETAILS OF DISTRICT

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

| Sr. No | Farming system/enterprise  |
|--------|--|
| 1      | Groundnut – Wheat/ Cumin, Cotton – Summer Groundnut/ Pulses/sesame |
| 2      | Dairy product  |
| 3      | Farm Waste Management specially for cotton stalk                   |
| 4      | Fruit and Vegetable Preservation                                   |
| 5      | Value addition in Groundnut, Til ,Gram etc.                        |

### 2.2 Description of Agro-climatic Zone & major agro ecological situations

#### a) Soil type

| Sr. No | Agro-climatic Zone                       | Characteristics  |
|--------|--|--|
| 1.     | North Saurashtra Agro Climatic Zone (VI) | The total geographical area of North Saurashtra Agro Climatic Zone is 35.2 Lacs 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 is low in their availability of nitrogen while medium in phosphorus and high in available potash except the available phosphorus and potash is in medium category in adopted villages. Monsoon commences usually by the end of June and withdraws by middle of September. Average annual rainfall of districts is 648 mm while 1160.4mm during 2020. |

#### b) Topography

| Sr. No | Agro ecological situation | Characteristics                             |
|--------|---------------------------|---|
| 1.     | Situation No. 4           | Shallow black soil with 500-600 mm Rainfall |
| 2.     | Situation No. 14          | Hilly Soils with 500-600 mm Rainfall        |

### 2.3 Soil types

| Sr. No | Soil type                             | Characteristics                           | Area in ('000) ha |
|--------|---------------------------------------|---|-------------------|
| 1.     | Clay to clay loam                     | Medium black calcareous soil              | 258               |
| 2.     | Sandy Clay Loam to Clayey             | Well drained soil with rapid permeability | 301               |
| 3.     | Sandy to Sandy loam 10 cm, Calcareous | Well drained soils                        |                   |

### 2.4. Area, Production and Productivity of major crops cultivated in the district (2019-20)

| Sr. No. | Crop               | Area (ha) | Production (Tone) | Productivity (Kg. /ha) |
|---------|--------------------|-----------|-------------------|------------------------|
| 1.      | Groundnut          | 233895    | 894862            | 3782                   |
| 2.      | Cotton             | 264430    | 504053            | 1906                   |
| 4.      | Sesamum            | 1676      | 1671              | 997                    |
| 5.      | Castor             | 5551      | 14322             | 2580                   |
| 6.      | Millet             | 589       | 778               | 1321                   |
| 7.      | Green gram         | 1319      | 1260              | 955                    |
| 8.      | Black gram         | 1111      | 1199              | 1079                   |
| 9       | Pigeon pea         | 1746      | 3148              | 1803                   |
| 10      | Wheat              | 139257    | 517887            | 3719                   |
| 11      | Gram               | 36850     | 74880             | 2032                   |
| 12      | Cumin              | 29812     | 23438             | 786                    |
| 13      | Groundnut (Summer) | 3685      | 8276              | 2246                   |
| 14      | Millet (Summer)    | 1453      | 3473              | 2390                   |

## 2.4 Weather data (2020)

| Month     | Rainfall (mm) | Temperature ° C |         | Relative Humidity (%) |         |
|-----------|---------------|-----------------|---------|-----------------------|---------|
|           |               | Maximum         | Minimum | Maximum               | Minimum |
| January   | 0             | 25.6            | 9.6     | 73.5                  | 40.6    |
| February  | 0             | 30.9            | 13.2    | 62.0                  | 31.2    |
| March     | 0             | 33.3            | 16.9    | 69.2                  | 27.5    |
| April     | 0             | 39.6            | 22.3    | 71.1                  | 25.5    |
| May       | 0             | 41.5            | 25.1    | 74.4                  | 27.8    |
| June      | 85.9          | 37.4            | 25.2    | 81.2                  | 53.0    |
| July      | 276.0         | 33.6            | 25.1    | 86.3                  | 67.5    |
| August    | 674.1         | 30.9            | 23.8    | 92.5                  | 81.1    |
| September | 84.7          | 33.4            | 24.0    | 87.5                  | 67.0    |
| October   | 39.7          | 35.1            | 21.6    | 78.7                  | 51.7    |
| November  | 0             | 32.2            | 14.9    | 57.2                  | 34.4    |
| December  | 0             | 29.8            | 12.4    | 62.5                  | 41.4    |
|           | <b>1160.4</b> |                 |         |                       |         |

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

| Category   | Population ('000 Nos.) | Production ('000 tone)     | Productivity |
|--|------------------------|----------------------------|--------------|
| <b>Cattle</b>                                    |                        |                            |              |
| Cows   | 452                    | 3326.90                    |              |
| <b>Buffalo</b>                                   | 362                    | 5284.70                    |              |
| <b>Sheep</b>                                     | 263.40                 | 266.81(Production of wool) |              |
| <b>Goats</b>                                     | 197                    | 231.24                     |              |
| <b>Pigs</b>                                      | 1                      |                            |              |
| Crossbred  |                        |                            |              |
| Indigenous                                       |                        |                            |              |
| <b>Poultry (Production of eggs in Lakh Nos.)</b> |                        |                            |              |
| Hens   |                        |                            |              |
| Desi   | 7.8                    | 3.92                       |              |
| Improved   | 13.4                   | 32.52                      |              |
| Ducks  |                        |                            |              |
| <b>Others</b>                                    |                        |                            |              |
| Horse and Camel                                  |                        |                            |              |
| Dogs   | 9                      |                            |              |

## 2.7 Details of Operational area / Villages

| Sr. No. | Taluka    | Name of the block | Name of the village | Major crops & enterprises  | Major problem identified   | Identified Thrust Areas  |
|---------|-----------|-------------------|---------------------|--|--|--|
| 1       | Jasdan    | Cluster I         | Barvala             | *Groundnut, Cotton, Sesamum, Wheat, Cumin, Gram, Garlic, Onion.  | Pink ball worm in Cotton, Heavy infestation of sucking pest in cotton, phytophthora disease in sesamum and white grub infestation in groundnut. Long inter-calving period in Buffalo, Nutritional deficiency in animal problem, feed and fodder, Less area under Horticultural crops | * IPM and INM in major crops of this area<br>* Reducing the inter-calving period in Buffalo<br>* Motivate the farmers for arid Horticultural crops.<br>* Efficient use of irrigation water<br>* To create the awareness for grading, processing and marketing (value addition) |
|         |           |                   | Kamlapur            |  |  |  |
|         |           |                   | Lilapur             |  |  |  |
|         |           |                   | Hadmatiya           |  |  |  |
|         |           |                   | Kalasar             |  |  |  |
| 2       | Vinchhiya | Cluster II        | Amrapur             | *Enterprises are dairy business, Vermi composting, preparation of roasted groundnut and chikki from groundnut and sesame |  |  |
|         |           |                   | Hingolgadh          |  |  |  |
|         |           |                   | Gundala             |  |  |  |
|         |           |                   | Bhopra              |  |  |  |
| 3       | Rajkot    | Cluster III       | Lalavadar           |  |  |  |
|         |           |                   | Haripar             |  |  |  |
|         |           |                   | Makanpar            |  |  |  |
|         |           |                   | Umralli             |  |  |  |
|         |           |                   | Khachharia          |  |  |  |
|         | Hodathali |                   |                     |  |  |  |

## 2.8 Priority thrust areas

| Crop/Enterprise              | Thrust area  |
|------------------------------|--|
| Groundnut, Sesamum etc       | Increasing the productivity of the major crops by adopting the recommended of dry farming technologies and to create awareness for value addition. |
| Water conservation           | <i>In situ</i> soil moisture conservation and rainwater harvesting. Use of cotton stalk for organic manure.  |
| Cotton                       | Motivating cotton growers to adopt IPM and INM practices for reducing the cost of production.  |
| Arid Fruits                  | Promoting the arid horticulture.   |
| Livestock prod.              | Enhancing productivity of milch animals by proper feeding and breeding management.   |
| women empowerment            | Providing self employment through skill oriented income generating activities  |
| Agriculture                  | Developing interest among youth for agriculture as a profession.   |
| Horticulture                 | Value addition in agriculture produces through proper grading, processing, marketing and information technology.                                   |
| PHT                          | Minimizing the post harvest losses and to create the awareness for proper storage.   |
| Income generating activities | Self employment among rural youth and skill oriented income generating activities.   |
| Nutrition management         | Care and importance of nutrition in children & pregnant women.   |

### 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 |
| 8              | 6           | 14                | 10          | 125            | 125         | 125               | 125         |

| 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 |
| 106               | 77          | 1738                   | 2274        | -                    | 95          | -                      | 2107        |

| Seed Production (Qtl.) |             | Planting materials (Nos.) |             |
|------------------------|-------------|---------------------------|-------------|
| 5                      |             | 6                         |             |
| Target                 | Achievement | Target                    | Achievement |
| -                      | 123.30      | -                         | -           |

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

#### 3.1. B. Operational areas details during 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 | Proposed Intervention (OFT, FLD, Training, extension activity etc.)* |
|-------|---|---|---|---|--|
| 1     | Groundnut   | Variety   | -   | All cluster   | FLD  |
|       |   | White grub                                      | -   | All cluster   | FLD, OFT and Training  |
|       |   | Stem rot  | -   | All cluster   | FLD and Training   |
| 2     | Cotton  | Water stress                                    | -   | All cluster   | OFT  |
|       |   | Pink ballworm                                   | -   | All cluster   | FLD and Training   |
| 3     | Cumin   | Stem rot  | -   |   | FLD, OFT and Training  |
| 4     | Gram  | Variety   | -   | All cluster   | FLD and Training   |



### 3.2. Technology Assessment

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

| Thematic areas                            | Cereals | Oilseeds | Pulses   | Commer<br>cial<br>Crops | Vegetables | Fruits | Flower | Plant<br>ation<br>crops | Tuber<br>Crops | TOTAL    |
|---|---------|----------|----------|-------------------------|------------|--------|--------|-------------------------|----------------|----------|
| Integrated Nutrient Management            |         | 1        |          |                         |            |        |        |                         |                | 1        |
| Varietal Evaluation                       |         |          |          |                         |            |        |        |                         |                |          |
| Integrated Pest Management                |         | 1        |          |                         |            |        |        |                         |                | 1        |
| Integrated Crop Management                |         |          |          |                         |            |        |        |                         |                |          |
| Integrated Disease Management             |         |          |          |                         |            |        |        |                         |                |          |
| Small Scale Income Generation Enterprises |         |          |          |                         |            |        |        |                         |                |          |
| Weed Management                           |         |          |          |                         |            |        |        |                         |                |          |
| Resource Conservation Technology          |         | 1        |          | 1                       |            |        |        |                         |                | 2        |
| Farm Machineries                          |         |          |          |                         |            |        |        |                         |                |          |
| Integrated Farming System                 |         |          |          |                         |            |        |        |                         |                |          |
| Seed / Plant production                   |         |          |          |                         |            |        |        |                         |                |          |
| Value addition                            |         |          |          |                         |            |        |        |                         |                |          |
| Drudgery Reduction                        |         |          |          |                         |            |        |        |                         |                |          |
| Storage Technique                         |         |          | 1        |                         |            |        |        |                         |                | 1        |
| Mushroom cultivation                      |         |          |          |                         |            |        |        |                         |                |          |
| <b>TOTAL</b>                              |         | <b>3</b> | <b>1</b> | <b>1</b>                |            |        |        |                         |                | <b>5</b> |

#### A.2 Abstract on the number of technologies assessed in respect of livestock enterprises

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

## 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 trail covering all the Technological Options) |
|---|-----------|--|---------------|-------------------|---|
| Integrated Nutrient Management            | Groundnut | Organic farming in Kharif Groundnut                              | 1             | 1                 | 0.4   |
|   |           |  |               |                   |   |
| Varietal Evaluation                       |           |  |               |                   |   |
| Integrated Pest Management                | Groundnut | Infestation of white grub in organic Kharif Groundnut            | 1             | 1                 | 0.4   |
|   |           |  |               |                   |   |
| Integrated Crop Management                |           |  |               |                   |   |
| Integrated Disease Management             |           |  |               |                   |   |
| Small Scale Income Generation Enterprises |           |  |               |                   |   |
| Weed Management                           |           |  |               |                   |   |
| Resource Conservation Technology          | Groundnut | Effect of mulching on productivity of kharif groundnut           | 1             | 1                 | 0.4   |
|   | Cotton    | Water management in drip irrigated cotton crop                   | 1             | 1                 | 0.4   |
| Farm Machineries                          |           |  |               |                   |   |
| Integrated Farming System                 |           |  |               |                   |   |
| Seed / Plant production                   |           |  |               |                   |   |
| Value addition                            |           |  |               |                   |   |
| Drudgery Reduction                        |           |  |               |                   |   |
| Storage Technique                         | Pulses    | Preservation techniques of different pulses with organic methods | 1             | 5                 | -   |
|   |           |  |               |                   |   |
| Mushroom cultivation                      |           |  |               |                   |   |
| <b>Total</b>                              |           |  | <b>5</b>      | <b>9</b>          | <b>1.60</b>   |

### B.2. Technologies assessed under Livestock and other enterprises :

| Thematic areas                            | Name of the livestock enterprise | Name of the technology assessed | No. of trials | No. of farmers |
|---|----------------------------------|---------------------------------|---------------|----------------|
| Evaluation of breeds                      |                                  |                                 |               |                |
| Nutrition management                      |                                  |                                 |               |                |
| Disease management                        |                                  |                                 |               |                |
| Value addition                            |                                  |                                 |               |                |
| Production and management                 |                                  |                                 |               |                |
| Feed and fodder                           |                                  |                                 |               |                |
| Small scale income generating enterprises |                                  |                                 |               |                |
| <b>Total</b>                              |                                  |                                 |               |                |

## C1. Results of Technologies Assessed

### Results of On Farm Trial

| Crop/<br>enterprise | Farming<br>situation          | Problem<br>definition                              | Title of<br>OFT   | No.<br>of<br>trials | Technology<br>Assessed   | Parameter<br>s of<br>assessment                               | Data on<br>the<br>parameter | Results<br>of<br>assessment   | Feed<br>back<br>from the<br>farmer   | Any<br>refine<br>ment<br>needed | Justifica<br>tion for<br>refine<br>ment |
|---------------------|-------------------------------|--|---|---------------------|--|---|-----------------------------|---|--|---------------------------------|---|
| 1                   | 2                             | 3  | 4   | 5                   | 6  | 7   | 8                           | 9   | 10   | 11                              | 12                                      |
| <b>Groundnut</b>    | <b>Rainfed</b>                | Higher use of chemical fertilizers                 | Organic farming in Kharif Groundnut   | 1                   | 1. Farmers practices<br>2. Cow base farming<br>3. All Bio products.  | Yield parameters, Economics                                   | -                           | -   | -  | -                               | -                                       |
| <b>Groundnut</b>    | <b>Rainfed</b>                | Higher use of pesticides                           | Infestation of white grub in organic Kharif Groundnut   | 1                   | 1. Farmers practices<br>2. Cow base farming<br>3. All Bio products.  | Growth and yield parameters<br>2. % of white grub infestation | -                           | -   | -  | -                               | -                                       |
| <b>Groundnut</b>    | <b>Rainfed</b>                | High soil moisture losses during the crop period.  | Effect of mulching on productivity of kharif groundnut  | 1                   | 1. Without mulching (Farmers' practice)<br>2. Farm residues mulching (Recommended Technology)  | Yield Kg/ha and Soil Moisture Content (%)                     | -                           | Increase d the yield 15.02%   | Farm residues mulching conserve soil moisture                              | -                               | -                                       |
| <b>Cotton</b>       | <b>Rainfed/<br/>Irrigated</b> | Water scarcity in the region due to less rainfall. | Water management in drip irrigated cotton crop (Plastic mulching in drip irrigated cotton crop) | 1                   | 1. Without mulching (Farmers' practice)<br>2. Plastic mulch with drip irrigation (Recommended Technology)  | Yield (Kg/ha) and Soil Moisture Content (%)                   | -                           | Plastic mulch with drip irrigation had enhanced the cotton yield 15.45% | Plastic mulching in drip irrigated cotton save water and gave higher yield | -                               | -                                       |
| <b>Farm woman</b>   | -                             | Lack of knowledge                                  | Preservation techniques of different pulses with organic methods                                | 1                   | 1. Use of Neem leaves (50gm dry leaves/500g m food grain)<br>2. Use of Castor oil (1kg castoroil/ 100Kg food grain)<br>3. Use of pro super bag<br>4. Control | Result Awaited  |                             |   |  |                                 |   |

Contd..

| Technology Assessed  | Source of Technology                                 | Production                                    | Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year ) | Net Return (Profit) in Rs. / unit | BC Ratio |
|--|--|---|--|-----------------------------------|----------|
| 13   | 14   | 15  | 16   | 17                                | 18       |
| <b>Organic farming in <i>Kharif</i> Groundnut</b>                    |  |   |  |                                   |          |
| T1<br>Farmers practices  | National Centre of Organic farming, Ghaziabad (U.P.) | 2250  | Kg/ha  | 81000                             | 3.43     |
| T2<br>Cow base farming   |  | 1900  | Kg/ha  | 78250                             | 3.05     |
| T3<br>All Bio Products   |  | 1550  | Kg/ha  | 71500                             | 2.84     |
| <b>Infestation of white grub in organic <i>Kharif</i> Groundnut</b>  |  |   |  |                                   |          |
| T1<br>Farmers practices  | National Centre of Organic farming, Ghaziabad (U.P.) | 2250<br>(2.2%)                                | Kg/ha<br>( % plant infestation)  | 81000                             | 3.43     |
| T2<br>Cow base farming   |  | 1900<br>(3.0%)                                | Kg/ha<br>( % plant infestation)  | 78250                             | 3.05     |
| T3<br>All Bio Products   |  | 1550<br>(1.6%)                                | Kg/ha<br>( % plant infestation)  | 71500                             | 2.84     |
| <b>Effect of mulching on productivity of <i>kharif</i> groundnut</b> |  |   |  |                                   |          |
| 1. Without mulching (Farmers' practice)                              |  | Yield: 1065<br>Soil Moisture content (23.65%) | Yield (kg/ha)<br>Soil Moisture content (5)                                 | 31428                             | 1.97     |
| 2. Farm residues mulching (Recommended Technology)                   | Junagadh Agricultural University, Junagadh           | Yield: 1225<br>Soil Moisture content (26.15%) | Yield (kg/ha)<br>Soil Moisture content (5)                                 | 38343                             | 2.10     |
| <b>Water management in drip irrigated cotton crop</b>                |  |   |  |                                   |          |
| 1. Without mulching (Farmers' practice)                              |  | Yield: 2750<br>Soil Moisture content (24.25%) | Yield (kg/ha)<br>Soil Moisture content (5)                                 | 105925                            | 3.27     |
| 2. Plastic mulch (20 micron) (Recommended Technology)                | RTTC, Junagadh Agricultural University, Junagadh     | Yield: 3175<br>Soil Moisture content (27.35%) | Yield (kg/ha)<br>Soil Moisture content (5)                                 | 123863                            | 3.37     |

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

**OFT-1**

1. Title of Technology Assessed : **Organic farming in Kharif Groundnut**
  2. Problem Definition : Non use of organic products in farming
  3. Details of technologies selected for assessment :
    1. RDF (Chemical)+ Seed treatment
    2. Only cow based
    3. All Bio product
- Source of technology : JAU
4. Production system and thematic area : NCDF, Ghaziabad (UP)
  5. Production system and thematic area : NRM
  6. Performance of the Technology with performance indicators:

| No             | Name of the farmer | Name of the Village | Yield ( Kg/ha ) |             |             |
|----------------|--------------------|---------------------|-----------------|-------------|-------------|
|                |                    |                     | T1              | T2          | T3          |
| 1              | KVK Farm           | Targhadia           | 2250            | 1900        | 1550        |
| <b>Average</b> |                    |                     | <b>2250</b>     | <b>1900</b> | <b>1550</b> |

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Chemical treatment has given higher production as compare to organic treatment.
8. Final recommendation for micro level situation :Yield can be increased and white grub infestation can be reduced with use of *Trichoderma* in mixture with castor cake.
9. Constraints identified and feedback for research : - White grub infestation was observed more in organic are as compare to chemical treatment.
10. Process of farmers participation and their reaction : This was first trial for experimentation and it will be improved and repeated nest.

**OFT-2**

1. Title of Technology Assessed : **Infestation of white grub in organic Kharif Groundnut**
  2. Problem Definition : Higher use of pesticides
  3. Details of technologies selected for assessment :
    1. RDF Chemical + seed treatments for white grubs and sucking pests
    2. Only cow based
    3. All Bio product
- Source of technology : JAU
4. Production system and thematic area : NCDF, Ghaziabad (UP)
  5. Production system and thematic area : NRM
  6. Performance of the Technology with performance indicators:

| No | Name of the farmer | Name of the Village | Unit                   | Result |      |      |
|----|--------------------|---------------------|------------------------|--------|------|------|
|    |                    |                     |                        | T1     | T2   | T3   |
| 1  | KVK Farm           | Targhadia           | Yield ( Kg/ha )        | 2250   | 1900 | 1550 |
|    |                    |                     | ( % plant infestation) | 2.2    | 3.0  | 1.6  |

- 7 Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Chemical treatment has given higher production as compare to organic treatment.
8. Final recommendation for micro level situation :Yield can be increased and white grub infestation can be reduced with use of *Trichoderma* in mixture with castor cake.
9. Constraints identified and feedback for research : - White grub infestation was observed more in organic are as compare to chemical treatment.
10. Process of farmers participation and their reaction : This was first trial for experimentation and it will be improved and repeated nest.

### **OFT-3**

- 1 Title of Technology Assessed : **Effect of mulching on productivity of kharif groundnut**
- 2 Problem Definition : High soil moisture losses during the crop period.
- 3 Details of technologies selected for assessment : Impact of farm residues mulching on productivity of kharif groundnut (JAU Reco.)  
T1: Without mulching  
T2: Farm residues mulching
- 4 Source of technology : JAU
- 5 Production system and thematic area : Resource Conservation Technology
- 6 Performance of the Technology with performance indicators:

| Farmer No      | Name of the farmer | Name of the Village | Yield ( Kg/ha ) |             | Soil Moisture content (%) |              |
|----------------|--------------------|---------------------|-----------------|-------------|---------------------------|--------------|
|                |                    |                     | T1              | T2          | T1                        | T2           |
| 1              | KVK Farm           | Targhadia           | 1065            | 1225        | 23.65                     | 26.15        |
| <b>Average</b> |                    |                     | <b>1065</b>     | <b>1225</b> | <b>23.65</b>              | <b>26.15</b> |

- 7 Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Farm residues mulching enhanced the kharif groundnut yield
- 8 Final recommendation for micro level situation :Use of farm residues mulch in kharif groundnut.
9. Constraints identified and feedback for research : -
10. Process of farmers participation and their reaction : --

### **OFT-4**

1. Title of Technology Assessed : **Water management in drip irrigated cotton crop. (Plastic mulching in drip irrigated cotton crop)**
2. Problem Definition : Water scarcity due to less rainfall and reduce yield of cotton in Rajkot district
3. Details of technologies selected for assessment : Effect of plastic mulching on productivity of drip irrigated cotton (JAU Reco.)  
T1: Without mulching  
T2: Plastic mulching (20 micron)
4. Source of technology : JAU
5. Production system and thematic area : Resource Conservation Technology
6. Performance of the Technology with performance indicators:

| Farmer No      | Name of the farmer | Name of the Village | Yield ( q/ha ) |              | Soil Moisture content (%) |              |
|----------------|--------------------|---------------------|----------------|--------------|---------------------------|--------------|
|                |                    |                     | T1             | T2           | T1                        | T2           |
| 1              | Babubhai Ramani    | Khorana             | 2750           | 31.75        | 24.25                     | 27.35        |
| <b>Average</b> |                    |                     | <b>2750</b>    | <b>31.75</b> | <b>24.25</b>              | <b>27.35</b> |

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Silver-black plastic mulch with drip irrigation had enhanced the cotton yield
8. Final recommendation for micro level situation :Use of silver black plastic mulch (25 micron) in drip irrigated cotton
9. Constraints identified and feedback for research : -
10. Process of farmers participation and their reaction : --

### 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                 | Varietal evaluation+ IPM through Chlorpyrifos | Management of white grub through seed treatment                     | 8                               | 10             | 4.0        |
| 2     | Groundnut        | INM                 | Variety+ INM+ IPM+IDM                         | To test yield potentiality of newly released groundnut variety      | 7                               | 10             | 4.0        |
| 3     | Gram             | Varietal evaluation | GJG-5   | To test yield potentiality of newly released gram variety           | 9                               | 10             | 4.0        |
| 4     | Cumin            | Pest Management     | IPM   | Management of wilt through bio agent                                | 4                               | 5              | 2.0        |
| 5     | Buffalo          | Nutrient Management | Chelated mineral mixture power                | -   | 4                               | 20             | 20         |
| 6     | Buffalo          | Nutrient Manage.    | by Pass protein                               | -   | 3                               | 10             | 10         |
| 7     | Buffalo          | Nutrient Manage.    | by pass fat                                   | -   | 3                               | 10             | 10         |
| 8     | Fodder           | "Fodder managemen   | Jinjvo grass (Marvel grass)                   | -   | 2                               | 10             | 10         |

## B. Details of FLDs implemented during 2020 oilseeds

| 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 | IPM (GJG-22)  | Varietal evaluation+ IPM through Chlorpyrifos | Kharif 2020     | 4.0       | 4.0    | 1                             | 9      | 10    | -                                    |
| 2       | Groundnut | INM (GJG-22)  | Variety+ INM + IPM+IDM                        | Kharif 2020     | 4.0       | 4.0    | 0                             | 10     | 10    | -                                    |

### Pulses :

| Sr. No. | Crop | Thematic area       | Technology Demonstrated | Season and year | Area (ha) |        | No. of farmers/ Demonstration |        |       | Reasons for short-fall |
|---------|------|---------------------|-------------------------|-----------------|-----------|--------|-------------------------------|--------|-------|------------------------|
|         |      |                     |                         |                 | Proposed  | Actual | SC/ST                         | Others | Total |                        |
| 1       | Gram | Varietal evaluation | Variety (GJG-5)         | Rabi 2019-20    | 4.0       | 4.0    | 0                             | 10     | 10    | -                      |

### Others

| Sr. No. | Crop                | Thematic area       | Technology Demonstrated              | Season and year | Area (ha) |        | No. of farmers/ Demonstration |        |       | Reasons for short-fall |
|---------|---------------------|---------------------|--------------------------------------|-----------------|-----------|--------|-------------------------------|--------|-------|------------------------|
|         |                     |                     |                                      |                 | Proposed  | Actual | SC/ST                         | Others | Total |                        |
| 1       | Cumin               | IPM                 | Management of wilt through bio agent | Rabi 2019-20    | 2.0       | 2.0    | 0                             | 5      | 5     | -                      |
| 2       | Buffalo             | Nutrient Management | By pass protein                      | -               | -         | -      | 4                             | 16     | 20    | -                      |
| 3       | Buffalo             | Nutrient Management | By pass fat                          | -               | -         | -      | 3                             | 7      | 10    | -                      |
| 4       | Buffalo             | Manage              | Jinjavo                              | Kharif 2020     | -         | -      | -                             | 10     | 10    | -                      |
| 5       | Seasonal vegetables | Nutritional Garden  | Kitchen Garden                       | Kharif 2020     | -         | -      | -                             | 50     | 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 |                         |             |              |                        |                   |
| 1         | 2             | 3                                | 4         | 5              | 6 | 7 | 8                       | 9           | 10           | 11                     | 12                |
| Groundnut | <i>Kharif</i> | RF                               | M. B.     | L              | M | H | Wheat/<br>Cumin         | 13/6/20     | 18/10/20     | 1160.4mm               | -                 |
| Groundnut | <i>Kharif</i> | RF                               | M. B.     | L              | M | H | Wheat/<br>Cumin         | 5/6/20      | 1/10/20      | 1160.4mm               | -                 |
| Cumin     | <i>Rabi</i>   | Irrigated                        | M. B.     | L              | M | H | “-“<br>Cotton/<br>G’nut | 18/11/19    | 22/2/20      | -                      | -                 |
| Gram      | <i>Rabi</i>   | Irrigated                        | M. B.     | L              | M | H | “-“                     | 25/11/19    | 21/2/20      | -                      | -                 |

## Technical Feedback on the demonstrated technologies

| S. No. | Feed Back  |
|--------|--|
| 1      | To enhance the farmers to use recently developed certified varieties of different crops.                               |
| 2      | Proper use of fertilizers, Irrigation, insecticides and fungicide as per recommendation to reduce the production cost. |
| 3      | Low yield of Garlic variety G-4 to compare local variety.  |
| 4      | High yield and big size of Onion variety Red-3 to compare local variety  |

## Farmers’ reactions on specific technologies

| S. No. | Feed Back   |
|--------|---|
| 1.     | White grub problem in groundnut   |
| 2.     | Pink boll worm in cotton  |
| 3.     | Reddening in cotton   |
| 4.     | Late and poor germination was observed in cumin variety GC-4                      |
| 5.     | Cumin variety GC-4 is high yielding but gradually losing wilt resistant character |
| 6.     | Heavy infestation of thrips in crops like garlic, onion, cotton                   |
| 7.     | Research needed for control of insect-pests and diseases in organic farming       |

## Extension and Training activities under FLD

| Sl.No. | Activity                             | No. of activities organised | Date                | Number of participants | Remarks |
|--------|--------------------------------------|-----------------------------|---------------------|------------------------|---------|
| 1      | Field days                           | 7                           | August and February | 152                    | -       |
| 2      | Farmers Training                     | 5                           | 2020                | 121                    | -       |
| 3      | Media coverage                       | 2                           | -                   | -                      | -       |
| 4      | Training for extension functionaries | -                           | -                   | -                      | -       |

### C. Performance of Frontline demonstrations

| Crop      | Thematic Area   | technology demon-strated                       | 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 | Pest Management | Varietal evaluation+ IPM through Chlorpyriphos | GJG-22  | 10             | 4.0       | 35.00        | 26.00 | 30.5    | 25.50 | 19.60               | 37200                               | 115200       | 78000      | 3.09      | 35900                       | 101000       | 65100      | 2.81      |
| Groundnut | INM             | Variety+ INM+ IPM+IDM                          | GJG-22  | 10             | 4.0       | 32.00        | 25.00 | 28.50   | 23.00 | 23.9                | 39000                               | 130000       | 91000      | 3.33      | 37000                       | 115500       | 78500      | 3.12      |

#### Frontline demonstrations on oilseed crops

#### Frontline demonstration on pulse crops :

| Crop | Thematic Area       | technology demon-strated | Variety | No. of Farmers | Area (ha) | Eq 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 |       |                     |                                     |              |            |           |                             |              |            |           |
| Gram | Varietal evaluation | Varietal evaluation      | GJG-5   | 10             | 4         | 35.20           | 28.50 | 31.78   | 26.15 | 21.53               | 31700                               | 127120       | 95420      | 4.01      | 30500                       | 104600       | 74100      | 3.43      |

#### 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 disease percent |       | 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 |       |                   |                                  |       |                                     |              |            |           |                             |              |            |           |
| Cumin           | Pest Management | GC-4                   | 5              | 2.0       | 11.35        | 9.75 | 10.57   | 8.99  | 17.60             | 6                                | 14.3  | 38300                               | 116325       | 78025      | 3.04      | 35500                       | 98917        | 63417      | 2.79      |

## 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) |
| Buffalo  | Nutrient Management | Bypass Protein (22%)                | 20            | 1  | 1680 kg/lactation | 1490 kg/lactation | 12.75                       | -               | -     | 59852                            | 79533        | 19681      | 1.32      | 53598                    | 68540        | 14942      | 1.28      |
| Buffalo  | Nutrient Management | By Pass Fat                         | 10            | 1  | 8.1% Fate         | 6.6% fat          | 22.72                       | -               | -     | -                                | -            | -          | -         | -                        | -            | -          | -         |
|          | fodder Management   | Jinjvo                              | 10            | 1  | 83 q/ha           | 72 q/ha           | 15.28                       | -               | -     | -                                | -            | -          | -         | -                        | -            | -          | -         |

## FLD on Kitchen Gardening

| Category and Crop | Thematic area                        | Name of the technology demonstrated | No. of Farmer | No. of Units |
|-------------------|--------------------------------------|-------------------------------------|---------------|--------------|
| Vegetables        | Nutritive & fresh healthy vegetables | Kitchen garden                      | 50            | 50           |

## Farm women reaction

|  |
|--|
| - Kitchen gardening gives continues supply of fresh vegetables at lower cost which gives daily nutritious diet   |
| - In kitchen gardening farm women are not applying any agrochemicals so they produce organic vegetables  |
| - Before demonstration, farm women were growing only three to four vegetable crops in their backyard but after demonstration they said that they will grow different vegetable crops through kitchen gardening in scientific way |
| - They gave extra vegetables to their neighbors  |
| - Farm women said that now we will generate income by selling of extra vegetables because now they are aware about precious organic vegetables   |
| - Due to kitchen gardening children learned to about plant cognization and bio diversity.  |

### 3.4. Training Programmes

#### Farmers' Training including sponsored training programmes (on campus)

| Thematic area                                   | No. of courses | Participants |           |            |           |          |           |             |           |            |
|---|----------------|--------------|-----------|------------|-----------|----------|-----------|-------------|-----------|------------|
|   |                | Others       |           |            | SC/ST     |          |           | Grand Total |           |            |
|   |                | Male         | Female    | Total      | Male      | Female   | Total     | Male        | Female    | Total      |
| <b>I Crop Production</b>                        |                |              |           |            |           |          |           |             |           |            |
| Cropping Systems                                | 1              | 100          | 24        | 124        |           |          |           | 100         | 24        | 124        |
| Crop Diversification                            | 2              | 42           | 8         | 50         |           |          |           | 42          | 8         | 50         |
| Seed production                                 | 1              | 25           |           | 25         |           |          |           | 25          |           | 25         |
| Production of organic inputs                    | 3              | 65           | 10        | 75         |           |          |           | 65          | 10        | 75         |
| Others (pl specify)                             | 1              | 41           | 10        | 51         | 5         |          | 5         | 46          | 10        | 56         |
| <b>Total</b>                                    | <b>8</b>       | <b>273</b>   | <b>52</b> | <b>325</b> | <b>5</b>  | <b>0</b> | <b>5</b>  | <b>278</b>  | <b>52</b> | <b>330</b> |
| <b>II Horticulture</b>                          |                |              |           |            |           |          |           |             |           |            |
| <b>a) Vegetable Crops</b>                       |                |              |           |            |           |          |           |             |           |            |
|   | 1              | 55           | 10        | 65         |           |          |           | 55          | 10        | 65         |
| <b>Total (a)</b>                                |                |              |           |            |           |          |           |             |           |            |
| <b>b) Fruits</b>                                |                |              |           |            |           |          |           |             |           |            |
| Training and Pruning                            | 1              | 29           | 5         | 34         |           |          |           | 29          | 5         | 34         |
| <b>Total (b)</b>                                |                |              |           |            |           |          |           |             |           |            |
| <b>c) Ornamental Plants</b>                     |                |              |           |            |           |          |           |             |           |            |
| <b>Total (c)</b>                                |                |              |           |            |           |          |           |             |           |            |
| <b>d) Plantation crops</b>                      |                |              |           |            |           |          |           |             |           |            |
| <b>Total (d)</b>                                |                |              |           |            |           |          |           |             |           |            |
| <b>e) Tuber crops</b>                           |                |              |           |            |           |          |           |             |           |            |
| <b>f) Spices</b>                                |                |              |           |            |           |          |           |             |           |            |
| Production and Management technology            | 1              | 42           |           | 42         |           |          |           | 42          |           | 42         |
| <b>Total (f)</b>                                |                |              |           |            |           |          |           |             |           |            |
| <b>g) Medicinal and Aromatic Plants</b>         |                |              |           |            |           |          |           |             |           |            |
| Others (pl specify)                             | 1              | 16           |           | 16         |           |          |           | 16          |           | 16         |
| <b>Total (g)</b>                                |                |              |           |            |           |          |           |             |           |            |
| <b>GT (a-g)</b>                                 | <b>4</b>       | <b>142</b>   | <b>15</b> | <b>157</b> | <b>0</b>  | <b>0</b> | <b>0</b>  | <b>142</b>  | <b>15</b> | <b>157</b> |
| <b>III Soil Health and Fertility Management</b> |                |              |           |            |           |          |           |             |           |            |
| Soil fertility management                       | 1              | 46           | 05        | 51         |           |          |           | 46          | 05        | 51         |
| Production and use of organic inputs            | 1              | 23           |           | 23         |           |          |           | 23          |           | 23         |
| Soil and Water Testing                          | 1              | 52           |           | 52         | 10        |          | 10        | 62          |           | 62         |
| Others (pl specify)                             | 1              | 40           | 10        | 50         |           |          |           | 40          | 10        | 50         |
| <b>Total</b>                                    | <b>4</b>       | <b>161</b>   | <b>15</b> | <b>176</b> | <b>10</b> | <b>0</b> | <b>10</b> | <b>171</b>  | <b>15</b> | <b>186</b> |
| <b>IV Livestock Production and Management</b>   |                |              |           |            |           |          |           |             |           |            |
| Dairy Management                                | 2              | 36           |           | 36         | 3         |          | 3         | 39          |           | 39         |
| Animal Nutrition Manage.                        | 1              | 19           |           | 19         | 5         |          | 5         | 24          |           | 24         |
| Disease Management                              | 2              | 41           |           | 41         | 2         |          | 2         | 43          |           | 43         |
| Feed & fodder technology                        | 1              | 18           |           | 18         | 2         |          | 2         | 20          |           | 20         |
| Production of quality animal products           | 1              | 20           |           | 20         | 3         |          | 3         | 23          |           | 23         |
| Others (pl specify)                             |                |              |           |            |           |          |           |             |           |            |
| <b>Total</b>                                    | <b>7</b>       | <b>134</b>   | <b>0</b>  | <b>134</b> | <b>15</b> | <b>0</b> | <b>15</b> | <b>149</b>  | <b>0</b>  | <b>149</b> |

|  |           |            |            |             |           |          |           |            |            |             |
|--|-----------|------------|------------|-------------|-----------|----------|-----------|------------|------------|-------------|
| <b>V Home Science/Women empowerment</b>                              |           |            |            |             |           |          |           |            |            |             |
| Household food security by kitchen gardening and nutrition gardening | 1         |            | 36         | 36          |           | 4        | 4         |            | 40         | 40          |
| Design and development of low/minimum cost diet                      | 1         |            | 10         | 10          |           |          |           |            | 10         | 10          |
| Value addition   |           |            |            |             |           |          |           |            |            |             |
| Women empowerment  | 1         |            | 11         | 11          |           |          |           |            | 11         | 11          |
| Location specific drudgery reduction technologies                    |           |            |            |             |           |          |           |            |            |             |
| Rural Crafts   |           |            |            |             |           |          |           |            |            |             |
| <b>Total</b>   | <b>3</b>  | <b>0</b>   | <b>57</b>  | <b>57</b>   | <b>0</b>  | <b>4</b> | <b>4</b>  | <b>0</b>   | <b>61</b>  | <b>61</b>   |
| <b>VI Agril. Engineering</b>   |           |            |            |             |           |          |           |            |            |             |
| Farm Machinery and its maintenance                                   | 1         | 27         |            | 27          |           |          |           | 27         |            | 27          |
| Use of Plastics in farming practices                                 |           |            |            |             |           |          |           |            |            |             |
| Repair and maintenance of farm machinery and implements              |           |            |            |             |           |          |           |            |            |             |
| Small scale processing and value addition                            | 1         | 25         |            | 25          |           |          |           | 25         |            | 25          |
| Operation and maintenance of MIS                                     | 1         | 13         |            | 13          | 2         |          | 2         | 15         |            | 15          |
| Resource conservation  |           |            |            |             |           |          |           |            |            |             |
| <b>Total</b>   | <b>3</b>  | <b>65</b>  | <b>0</b>   | <b>65</b>   | <b>2</b>  | <b>0</b> | <b>2</b>  | <b>67</b>  | <b>0</b>   | <b>67</b>   |
| <b>VII Plant Protection</b>  |           |            |            |             |           |          |           |            |            |             |
| Integrated Pest Management   | 1         | 17         |            | 17          |           |          |           | 17         |            | 17          |
| Bio-control of pests and diseases                                    | 2         | 50         |            | 50          |           |          |           | 50         |            | 50          |
| Production of bio control agents and bio pesticides                  | 1         | 29         |            | 29          |           |          |           | 29         |            | 29          |
| Others (pl specify)  | 1         | 40         |            | 40          |           |          |           | 40         |            | 40          |
| <b>Total</b>   | <b>5</b>  | <b>136</b> | <b>0</b>   | <b>136</b>  | <b>0</b>  | <b>0</b> | <b>0</b>  | <b>136</b> | <b>0</b>   | <b>136</b>  |
| <b>GRAND TOTAL</b>   | <b>34</b> | <b>911</b> | <b>139</b> | <b>1050</b> | <b>32</b> | <b>4</b> | <b>36</b> | <b>943</b> | <b>143</b> | <b>1086</b> |

#### Farmers' Training including sponsored training programmes (off campus)

| Thematic area                  | No. of courses | Participants |          |            |          |          |           |             |          |            |
|--------------------------------|----------------|--------------|----------|------------|----------|----------|-----------|-------------|----------|------------|
|                                |                | Others       |          |            | SC/ST    |          |           | Grand Total |          |            |
|                                |                | Male         | Female   | Total      | Male     | Female   | Total     | Male        | Female   | Total      |
| <b>I Crop Production</b>       |                |              |          |            |          |          |           |             |          |            |
| Integrated Crop Management     | 2              | 52           |          | 52         | 2        | 1        | 3         | 54          | 1        | 55         |
| Integrated nutrient management | 2              | 66           |          | 66         | 5        | 3        | 8         | 71          | 3        | 74         |
| <b>Total</b>                   | <b>4</b>       | <b>118</b>   | <b>0</b> | <b>118</b> | <b>7</b> | <b>4</b> | <b>11</b> | <b>125</b>  | <b>4</b> | <b>129</b> |
| <b>II Horticulture</b>         |                |              |          |            |          |          |           |             |          |            |
| <b>a) Vegetable Crops</b>      |                |              |          |            |          |          |           |             |          |            |
| Off-season vegetables          | 2              | 40           | 5        | 45         | 4        |          | 4         | 44          | 5        | 49         |
| <b>Total (a)</b>               |                |              |          |            |          |          |           |             |          |            |
| <b>b) Fruits</b>               | 2              | 60           |          | 60         | 9        |          | 9         | 69          |          | 69         |
| <b>Total (b)</b>               |                |              |          |            |          |          |           |             |          |            |

|  |          |            |            |            |           |           |           |            |            |            |
|--|----------|------------|------------|------------|-----------|-----------|-----------|------------|------------|------------|
| <b>c) Ornamental Plants</b>  |          |            |            |            |           |           |           |            |            |            |
| <b>Total ( c)</b>  |          |            |            |            |           |           |           |            |            |            |
| <b>d) Plantation crops</b>   |          |            |            |            |           |           |           |            |            |            |
| <b>Total (d)</b>   |          |            |            |            |           |           |           |            |            |            |
| <b>e) Tuber crops</b>  |          |            |            |            |           |           |           |            |            |            |
| <b>Total (e)</b>   |          |            |            |            |           |           |           |            |            |            |
| <b>f) Spices</b>   |          |            |            |            |           |           |           |            |            |            |
| Processing and value addition  | 1        | 35         |            | 35         | 2         |           | 2         | 37         |            | 37         |
| Others (pl specify)  |          |            |            |            |           |           |           |            |            |            |
| <b>Total (f)</b>   |          |            |            |            |           |           |           |            |            |            |
| <b>g) Medicinal and Aromatic Plants</b>                              | 1        | 23         | 2          | 25         |           |           |           | 23         | 2          | 25         |
| <b>Total (g)</b>   |          |            |            |            |           |           |           |            |            |            |
| <b>GT (a-g)</b>  | <b>6</b> | <b>158</b> | <b>7</b>   | <b>165</b> | <b>15</b> | <b>0</b>  | <b>15</b> | <b>173</b> | <b>7</b>   | <b>180</b> |
| <b>III Soil Health and Fertility Management</b>                      |          |            |            |            |           |           |           |            |            |            |
| Balance use of fertilizers   | 2        | 52         |            | 52         | 9         |           | 9         | 61         |            | 61         |
| <b>Total</b>   | <b>2</b> | <b>52</b>  |            | <b>52</b>  | <b>9</b>  |           | <b>9</b>  | <b>61</b>  |            | <b>61</b>  |
| <b>IV Livestock Production and Management</b>                        |          |            |            |            |           |           |           |            |            |            |
| Dairy Management   | 1        | 21         |            | 21         | 4         |           | 4         | 25         |            | 25         |
| Disease Management   | 2        | 38         |            | 38         | 2         |           | 2         | 40         |            | 40         |
| Feed & fodder technology   | 1        | 24         |            | 24         | 1         |           | 1         | 25         |            | 25         |
| Production of quality animal products                                | 1        |            | 20         | 20         |           | 2         | 2         |            | 22         | 22         |
| Others (pl specify)  |          |            |            |            |           |           |           |            |            |            |
| <b>Total</b>   | <b>5</b> | <b>83</b>  | <b>20</b>  | <b>103</b> | <b>7</b>  | <b>2</b>  | <b>9</b>  | <b>90</b>  | <b>22</b>  | <b>112</b> |
| <b>V Home Science/Women empowerment</b>                              |          |            |            |            |           |           |           |            |            |            |
| Household food security by kitchen gardening and nutrition gardening | 1        |            | 21         | 21         |           | 2         | 2         |            | 23         | 23         |
| Design and development of low/minimum cost diet                      | 2        |            | 32         | 32         |           | 6         | 6         |            | 38         | 38         |
| Value addition   | 2        |            | 43         | 43         |           | 4         | 4         |            | 47         | 47         |
| Women empowerment  |          |            |            |            |           |           |           |            |            |            |
| Rural Crafts   |          |            |            |            |           |           |           |            |            |            |
| Child and women health   | 1        |            | 10         | 10         |           |           |           |            | 10         | 10         |
| Storage loss minimization techniques                                 | 1        |            | 23         | 23         |           |           |           |            | 23         | 23         |
| <b>Total</b>   | <b>7</b> | <b>0</b>   | <b>129</b> | <b>129</b> | <b>0</b>  | <b>12</b> | <b>12</b> | <b>0</b>   | <b>141</b> | <b>141</b> |
| <b>VI Agril. Engineering</b>   |          |            |            |            |           |           |           |            |            |            |
| Farm machinery and its maintenance                                   | 1        | 22         |            | 22         | 3         |           | 3         | 25         |            | 25         |
| Installation and maintenance of micro irrigation systems             | 1        | 26         |            | 26         | 1         |           | 1         | 27         |            | 27         |
| Use of Plastics in farming practices                                 | 1        | 25         |            | 25         | 1         |           | 1         | 26         |            | 26         |
| Production of small tools and implements                             |          |            |            |            |           |           |           |            |            |            |
| Repair and maintenance of farm machinery & implement                 |          |            |            |            |           |           |           |            |            |            |

|   |           |            |            |            |           |           |           |            |            |            |
|---|-----------|------------|------------|------------|-----------|-----------|-----------|------------|------------|------------|
| Small scale processing and value addition           |           |            |            |            |           |           |           |            |            |            |
| Post Harvest Technology                             | 1         | 21         |            | 21         | 2         |           | 2         | 23         |            | 23         |
| Others (Rain water harvesting)                      | 1         | 23         |            | 23         | 4         |           | 4         | 27         |            | 27         |
| <b>Total</b>  | <b>5</b>  | <b>117</b> | <b>0</b>   | <b>117</b> | <b>11</b> | <b>0</b>  | <b>11</b> | <b>128</b> | <b>0</b>   | <b>128</b> |
| <b>VII Plant Protection</b>                         |           |            |            |            |           |           |           |            |            |            |
| Integrated Pest Management                          | 2         | 50         |            | 50         | 6         |           | 6         | 56         |            | 56         |
| Bio-control of pests and diseases                   | 2         | 55         |            | 55         |           |           |           | 55         |            | 55         |
| Production of bio control agents and bio pesticides | 2         | 53         | 2          | 55         |           |           |           | 53         | 2          | 55         |
| <b>Total</b>  | <b>6</b>  | <b>158</b> | <b>2</b>   | <b>160</b> | <b>6</b>  | <b>0</b>  | <b>6</b>  | <b>164</b> | <b>2</b>   | <b>166</b> |
| <b>GRAND TOTAL</b>                                  | <b>35</b> | <b>687</b> | <b>158</b> | <b>845</b> | <b>54</b> | <b>18</b> | <b>72</b> | <b>741</b> | <b>176</b> | <b>917</b> |

### Farmers' Training including sponsored training programmes – CONSOLIDATED

(On + Off campus)

| Thematic area                           | No. of courses | Participants |           |            |           |          |           |             |           |            |
|---|----------------|--------------|-----------|------------|-----------|----------|-----------|-------------|-----------|------------|
|   |                | Others       |           |            | SC/ST     |          |           | Grand Total |           |            |
|   |                | Male         | Female    | Total      | Male      | Female   | Total     | Male        | Female    | Total      |
| <b>I Crop Production</b>                |                |              |           |            |           |          |           |             |           |            |
| Crop Diversification                    | 2              | 42           | 8         | 50         |           |          |           | 42          | 8         | 50         |
| Seed production                         | 1              | 25           |           | 25         |           |          |           | 25          |           | 25         |
| Integrated Crop Management              | 2              | 52           |           | 52         | 2         | 1        | 3         | 54          | 1         | 55         |
| Integrated nutrient management          | 2              | 66           |           | 66         | 5         | 3        | 8         | 73          | 3         | 76         |
| Production of organic inputs            | 3              | 65           | 10        | 75         |           |          |           | 65          | 10        | 75         |
| Others (pl specify)                     | 1              | 41           | 10        | 51         | 5         |          | 5         | 46          | 10        | 56         |
| Cropping system                         | 1              | 100          | 24        | 124        |           |          |           | 100         | 24        | 124        |
| <b>Total</b>                            | <b>12</b>      | <b>391</b>   | <b>52</b> | <b>443</b> | <b>12</b> | <b>4</b> | <b>16</b> | <b>405</b>  | <b>56</b> | <b>461</b> |
| <b>II Horticulture</b>                  |                |              |           |            |           |          |           |             |           |            |
| <b>a) Vegetable Crops</b>               |                |              |           |            |           |          |           |             |           |            |
| Off-season vegetables                   | 3              | 95           | 15        | 110        | 4         | 0        | 4         | 99          | 15        | 114        |
| <b>Total (a)</b>                        |                |              |           |            |           |          |           |             |           |            |
| <b>b) Fruits</b>                        |                |              |           |            |           |          |           |             |           |            |
| Training and Pruning                    | 3              | 89           | 5         | 94         | 9         |          | 9         | 98          | 5         | 103        |
| <b>Total (b)</b>                        |                |              |           |            |           |          |           |             |           |            |
| <b>c) Ornamental Plants</b>             |                |              |           |            |           |          |           |             |           |            |
| <b>d) Plantation crops</b>              |                |              |           |            |           |          |           |             |           |            |
| <b>e) Tuber crops</b>                   |                |              |           |            |           |          |           |             |           |            |
| <b>Total (c to d)</b>                   |                |              |           |            |           |          |           |             |           |            |
| <b>f) Spices</b>                        |                |              |           |            |           |          |           |             |           |            |
| Production and Management technology    | 1              | 42           | 0         | 42         |           |          |           | 42          | 0         | 42         |
| Processing and value addition           | 1              | 35           |           | 35         | 2         |          | 2         | 37          |           | 37         |
| <b>Total (f)</b>                        |                |              |           |            |           |          |           |             |           |            |
| <b>g) Medicinal and Aromatic Plants</b> |                |              |           |            |           |          |           |             |           |            |
| Others (pl specify)                     | 2              | 39           | 2         | 41         |           |          |           | 39          | 2         | 41         |
| <b>Total (g)</b>                        |                |              |           |            |           |          |           |             |           |            |
| <b>GT (a-g)</b>                         | <b>10</b>      | <b>300</b>   | <b>22</b> | <b>322</b> | <b>15</b> | <b>0</b> | <b>15</b> | <b>315</b>  | <b>22</b> | <b>337</b> |

|  |           |            |            |            |           |           |           |            |            |            |
|--|-----------|------------|------------|------------|-----------|-----------|-----------|------------|------------|------------|
| <b>III Soil Health and Fertility Management</b>                      |           |            |            |            |           |           |           |            |            |            |
| Soil fertility management  | 1         | 46         | 05         | 51         |           |           |           | 46         | 05         | 51         |
| Production and use of organic inputs                                 | 1         | 23         |            | 23         |           |           |           | 23         |            | 23         |
| Balance use of fertilizers   | 1         | 52         |            | 52         | 10        |           | 10        | 62         |            | 62         |
| Soil and Water Testing   | 1         | 40         | 10         | 50         |           |           |           | 40         | 10         | 50         |
| Others (pl specify)  | 2         | 52         |            | 52         | 9         |           | 9         | 61         |            | 61         |
| <b>Total</b>   | <b>6</b>  | <b>213</b> | <b>15</b>  | <b>228</b> | <b>19</b> | <b>0</b>  | <b>19</b> | <b>232</b> | <b>15</b>  | <b>247</b> |
| <b>IV Livestock Production and Management</b>                        |           |            |            |            |           |           |           |            |            |            |
| Dairy Management   | 3         | 57         |            | 57         | 7         |           | 7         | 64         |            | 64         |
| Animal Nutrition Management  | 1         | 19         |            | 19         | 5         |           | 5         | 24         |            | 24         |
| Disease Management   | 4         | 79         |            | 79         | 4         |           | 4         | 83         |            | 83         |
| Feed & fodder technology   | 2         | 42         |            | 42         | 3         |           | 3         | 45         |            | 45         |
| Production of quality animal products                                | 2         | 20         | 20         | 40         | 3         | 2         | 5         | 23         | 22         | 45         |
| Others (pl specify)  |           |            |            |            |           |           |           |            |            |            |
| <b>Total</b>   | <b>12</b> | <b>217</b> | <b>20</b>  | <b>237</b> | <b>22</b> | <b>2</b>  | <b>24</b> | <b>239</b> | <b>22</b>  | <b>261</b> |
| <b>V Home Science/Women empowerment</b>                              |           |            |            |            |           |           |           |            |            |            |
| Household food security by kitchen gardening and nutrition gardening | 2         |            | 57         | 57         |           | 6         | 6         |            | 63         | 63         |
| Design and development of low/minimum cost diet                      | 3         |            | 42         | 42         |           | 6         | 6         |            | 48         | 48         |
| Storage loss minimization techniques                                 | 1         |            | 23         | 23         |           |           |           |            | 23         | 23         |
| Value addition   | 2         |            | 43         | 43         |           | 4         | 4         |            | 47         | 47         |
| Women empowerment  | 1         |            | 11         | 11         |           |           |           |            | 11         | 11         |
| Location specific drudgery reduction technologies                    |           |            |            |            |           |           |           |            |            |            |
| Rural Crafts   |           |            |            |            |           |           |           |            |            |            |
| Women and child care   | 1         |            | 10         | 10         |           |           |           |            | 10         | 10         |
| <b>Total</b>   | <b>10</b> | <b>0</b>   | <b>186</b> | <b>186</b> | <b>0</b>  | <b>16</b> | <b>16</b> | <b>0</b>   | <b>202</b> | <b>202</b> |
| <b>VI Agril. Engineering</b>   |           |            |            |            |           |           |           |            |            |            |
| Farm Machinery and its maintenance                                   | 1         | 27         |            | 27         |           |           |           | 27         |            | 27         |
| Installation and maintenance of micro irrigation systems             | 2         | 39         |            | 39         | 3         |           | 3         | 42         |            | 42         |
| Use of Plastics in farming practices                                 | 1         | 25         |            | 25         | 1         |           | 1         | 26         |            | 26         |
| Production of small tools and implements                             |           |            |            |            |           |           |           |            |            |            |
| Repair and maintenance of farm machinery and implements              | 1         | 22         |            | 22         | 3         |           | 3         | 25         |            | 25         |
| Small scale processing and value addition                            | 1         | 25         |            | 25         |           |           |           | 25         |            | 25         |
| Post Harvest Technology  | 1         | 21         |            | 21         | 2         |           | 2         | 23         |            | 23         |
| Others (Rain water harvesting)                                       | 1         | 23         |            | 23         | 4         |           | 4         | 27         |            | 27         |
| Resource conservation  |           |            |            |            |           |           |           |            |            |            |
| <b>Total</b>   | <b>8</b>  | <b>182</b> | <b>0</b>   | <b>182</b> | <b>13</b> | <b>0</b>  | <b>13</b> | <b>195</b> | <b>0</b>   | <b>195</b> |



| <b>VII Plant Protection</b>                         |           |            |          |            |             |           |           |            |            |             |
|---|-----------|------------|----------|------------|-------------|-----------|-----------|------------|------------|-------------|
| Integrated Pest Management                          | 3         | 67         | 0        | 67         | 6           | 0         | 6         | 73         | 0          | 73          |
| Integrated Disease Management                       |           |            |          |            |             |           |           |            |            |             |
| Bio-control of pests and diseases                   | 4         | 105        | 0        | 105        |             |           |           | 105        | 0          | 105         |
| Production of bio control agents and bio pesticides | 3         | 82         | 2        | 84         |             |           |           | 82         | 2          | 84          |
| Others (pl specify)                                 | 1         | 40         | 0        | 40         |             |           |           | 40         | 0          | 40          |
| <b>Total</b>  | <b>11</b> | <b>294</b> | <b>2</b> | <b>296</b> | <b>6</b>    | <b>0</b>  | <b>6</b>  | <b>300</b> | <b>2</b>   | <b>302</b>  |
| <b>GRAND TOTAL</b>                                  | <b>69</b> | <b>159</b> | <b>7</b> | <b>297</b> | <b>1894</b> | <b>87</b> | <b>22</b> | <b>109</b> | <b>168</b> | <b>4</b>    |
|   |           |            |          |            |             |           |           |            | <b>319</b> | <b>2003</b> |

### 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     |
| Tailoring and Stitching                 | 1              |                     | 34        | 34        |          | 6        | 6        |             | 40        | 40        |
| Beauty Parlor training for a rural girl | 1              |                     | 23        | 23        |          | 2        | 2        |             | 25        | 25        |
| <b>TOTAL</b>                            | <b>2</b>       | <b>0</b>            | <b>57</b> | <b>57</b> | <b>0</b> | <b>8</b> | <b>8</b> | <b>0</b>    | <b>65</b> | <b>65</b> |

### 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 |
| <b>Crop production and management</b>             |                |                     |        |       |       |        |       |             |        |       |
| Increasing production and productivity of crops   | 1              | 18                  | 5      | 23    |       |        |       | 18          | 5      | 23    |
| Commercial production of vegetables               | 1              | 15                  | 3      | 18    |       |        |       | 15          | 3      | 18    |
| <b>Production and value addition</b>              |                |                     |        |       |       |        |       |             |        |       |
| Fruit Plants                                      | 1              |                     | 49     | 49    |       | 11     | 11    |             | 60     | 60    |
| Ornamental plants                                 |                |                     |        |       |       |        |       |             |        |       |
| Spices crops                                      |                |                     |        |       |       |        |       |             |        |       |
| Soil health and fertility management              | 1              | 52                  |        | 52    |       |        |       | 52          |        | 52    |
| Production of Inputs at site                      |                |                     |        |       |       |        |       |             |        |       |
| Methods of protective cultivation                 |                |                     |        |       |       |        |       |             |        |       |
| Others (pl. specify)                              |                |                     |        |       |       |        |       |             |        |       |
| <b>Total</b>                                      |                |                     |        |       |       |        |       |             |        |       |
| <b>Post harvest technology and value addition</b> |                |                     |        |       |       |        |       |             |        |       |
| Processing and value addition                     | 1              |                     | 28     | 28    |       |        |       |             | 28     | 28    |
| Others (pl. specify)                              |                |                     |        |       |       |        |       |             |        |       |
| <b>Total</b>                                      |                |                     |        |       |       |        |       |             |        |       |
| <b>Farm machinery</b>                             |                |                     |        |       |       |        |       |             |        |       |
| Farm machinery, tools and implements              | 1              | 25                  |        | 25    |       |        |       | 25          |        | 25    |
| Others (pl. specify)                              |                |                     |        |       |       |        |       |             |        |       |
| <b>Total</b>                                      |                |                     |        |       |       |        |       |             |        |       |

|                                     |          |            |           |            |          |           |           |            |           |            |
|-------------------------------------|----------|------------|-----------|------------|----------|-----------|-----------|------------|-----------|------------|
| <b>Livestock and fisheries</b>      |          |            |           |            |          |           |           |            |           |            |
| Livestock production and management |          |            |           |            |          |           |           |            |           |            |
| Animal Nutrition Management         |          |            |           |            |          |           |           |            |           |            |
| Animal Disease Management           |          |            |           |            |          |           |           |            |           |            |
| Fisheries Nutrition                 |          |            |           |            |          |           |           |            |           |            |
| Fisheries Management                |          |            |           |            |          |           |           |            |           |            |
| Others (pl. specify)                |          |            |           |            |          |           |           |            |           |            |
| <b>Total</b>                        |          |            |           |            |          |           |           |            |           |            |
| <b>Home Science</b>                 |          |            |           |            |          |           |           |            |           |            |
| Household nutritional security      |          |            |           |            |          |           |           |            |           |            |
| Economic empowerment of women       |          |            |           |            |          |           |           |            |           |            |
| Drudgery reduction of women         |          |            |           |            |          |           |           |            |           |            |
| Others (pl. specify)                |          |            |           |            |          |           |           |            |           |            |
| <b>Total</b>                        |          |            |           |            |          |           |           |            |           |            |
| <b>Agricultural Extension</b>       |          |            |           |            |          |           |           |            |           |            |
| CapacityBuilding and Group Dynamics |          |            |           |            |          |           |           |            |           |            |
| Others (pl. specify)                |          |            |           |            |          |           |           |            |           |            |
| <b>Total</b>                        |          |            |           |            |          |           |           |            |           |            |
| <b>GRAND TOTAL</b>                  | <b>6</b> | <b>110</b> | <b>85</b> | <b>195</b> | <b>0</b> | <b>11</b> | <b>11</b> | <b>110</b> | <b>96</b> | <b>206</b> |

### 3.5. Extension Programmes

| Activities  | No. of programmes | No. of farmers | No. of Extension Personnel | TOTAL       |
|---|-------------------|----------------|----------------------------|-------------|
| Advisory Services                                     | 11                | 21             | 1                          | 22          |
| Diagnostic visits                                     | 2                 | 11             | 2                          | 13          |
| Field Day   | 7                 | 152            | 2                          | 154         |
| Group discussions                                     | 5                 | 78             | -                          | 78          |
| KisanGhoshi   | 9                 | 121            | 2                          | 123         |
| Film Show   | 1                 | 55             | 1                          | 56          |
| Self -help groups                                     | 1                 | 25             | 1                          | 26          |
| Exhibition  | 1                 | -              | -                          | -           |
| Scientists' visit to farmers field                    | 24                | 146            | 2                          | 148         |
| Plant/animal health camps                             | 1                 | 54             | 2                          | 56          |
| Farm Science Club                                     | -                 | -              | -                          | -           |
| Ex-trainees Sammelan                                  | 1                 | 72             | 5                          | 77          |
| Farmers' seminar/workshop                             | 2                 | 345            | 4                          | 349         |
| Method Demonstrations                                 | 3                 | 22             | 1                          | 23          |
| Celebration of Soil health card                       | 1                 | 308            | 1                          | 309         |
| Celebration of international women day                | 1                 | 49             | -                          | 49          |
| Celebration of Phoshan Maah                           | 1                 | 216            | 5                          | 221         |
| A Live food day celebration                           | 1                 | 8              | -                          | 8           |
| Tree plantation programme                             | 1                 | 3              | -                          | 3           |
| Celebration of Mahila Kisan Divas                     | 1                 | 19             | -                          | 19          |
| Celebration of Swachht hi Seva                        | 1                 | 102            | 3                          | 105         |
| Celebration of Soil health Day                        | 1                 | 55             | 2                          | 57          |
| Celebration of Kisan Divas                            | 1                 | 72             | 2                          | 74          |
| Celebration of Good governance, Kishan and Vigyan Day | 1                 | 38             | 1                          | 39          |
| <b>Total</b>  | <b>78</b>         | <b>1972</b>    | <b>37</b>                  | <b>2009</b> |

**Details of other extension programmes**

| Particulars                                     | Number    |
|---|-----------|
| Electronic Media (CD./DVD)                      | 1         |
| Extension Literature (Booklet)                  | -         |
| News paper coverage                             | 13        |
| Popular articles                                | -         |
| Radio Talks                                     | -         |
| TV Talks  | 2         |
| Animal health camps (Number of animals treated) | 1(81)     |
| Others (pl. specify)                            |           |
| <b>Total</b>                                    | <b>17</b> |

➤ **Celebration of International woman day**

On 8<sup>th</sup> March 2020 “International Women Day” was celebration at Paddhari Taluka of Rajkot Dis. Total 49 Anganwadi workers and farm women were participated in this programme. In this programme given information regarding Kitchen Garden, Women and child health, Women improvement , Value addition of different fruit crops etc. and competition of Nutrition dish was organized by the Anganwadi Working Sisters.

➤ **Celebration of Soil health Card day:**

On 19<sup>th</sup> February 2020 “Soil health Card day” was celebration at Paddhari, Rajkot, Jasadan and vinchhiya Taluka of Rajkot Dis. collaboration with Agri. Department Rajkot. Total 308 farmers, farm women and extension workers were participated in this programme. In this programme given information regarding importance of soil in Agriculture. Role of soil health for crop production. How to take soil sample for analysis of available nutrients from soil. Importance of Soil Health Card. How to increase and maintain soil fertility for long run. Use of Bio-Fertilizers, Organic Matters, Green Manuring, Crop Residue Recycling for soil fertility improvement and increase crop production.

➤ **Celebration of Poshan Maah :**

KVK, Targhadia celebrated the Poshan Maah from 7<sup>th</sup> to 30<sup>th</sup> September, 2020 at KVK, Targhadia and different villages of Rajkot district. During the celebration of “Poshan Mah”, various programs like distribution of Literature on Poshan Abhiyan in local language, Different training for labour women, farm women and Anganwadi workers, visit to Poshan Vatika, nutritional guidance by phone. Also given press notes of different programs which were organized by KVK during celebration of Poshan Maah. Total 216 farm women, anganwadi workers, officers and staffs participated in different activities. Organized special training for Anganwadi workers including information on importance of nutrition, importance of kitchen gardening, nutritious food for children and women as well as distribution of various vegetable seeds for kitchen garden to farm women and anganwadi workers. Farmers and students rally under SHS at KVK, Rajkot-I of Office area, and different activities under this programme. Total 290 farmers, farm women and students participated in this event.

➤ **Celebration of Soil health day :**

On 5<sup>th</sup> December, 2020 World Soil Health Day was celebration at Krishi Vigyan Kendra, Rajkot-I. Total 55 farmers were participated in this event. Dr. D.S.Hirpara, RS(DF), Targhadia, KVK Head Dr. B. B. Kabaria, Dr. G.R.Sharma, Principal(Polytechnic in Agril.Engg.), Targhadia and team of KVK present and they introduced farmers about soil health, SHC and how to improve soil fertility.

➤ **Celebration of Kisan Divas :**

On 23<sup>rd</sup> December 2020 “Kisan Divas” was celebration at Krishi Vigyan Kendra, Rajkot-I. Total 72 farmers and farm women were participated in this programme. Total 35 Progressive farmers were honored with certificate & mementos by KVK. Who have done specific contribution in Agriculture, Horticulture, Animal Science, Value addition etc.

Shree Govindbhai Patel, MLA, Rajkot (South), Dr. D. S. Hirpara, Research Scientist, DFRS, Targhadia , Dr. B. B. Kabaria, Senior Scientist and Head, KVK, Targhadia, Mrs. H. H. Padsumbiya and team of KVK and Reliance foundation and CEE, Jasdan officers companies were present in this event.

Also some farmers shared their views on innovativeness and cleanliness drive in Agriculture.

➤ **Celebration of Mahila Kisan Divas :**

KVK, Targhadia organized Kisan Mahil Divas on 15<sup>th</sup> October 2020 at Targhadi village of Paddhari Taluka. Total 20 farm women participated in this programme. Training and a group discussion was organized to emphasis on their role in agriculture and all other activities. In the training given information regarding Kitchen Garden, Women and child health, Women improvement , Value addition of different fruit crops etc.

➤ **Celebration of ”Swachhta Pakhwada” :**

KVK, Targhadia celebration of ”Swachhta Pakhwada” from 16<sup>th</sup> to 31<sup>st</sup> December, 2020 by KVK, Targhadia.

- Sapath taking and lunching of Swachh monitoring system by KVK staff.
- Cleaning and Sweeping of entire office premises / cleaning of KVK campus.
- Swachhta Awareness at local level
- Cleaning and beautification of surrounding areas,
- Vermicomposting/Composting of biodegradable waste management& other activities on generate of wealth for waste
- Total 102 farmers, farm women and officers participated in this event.

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

#### Production of seeds by the KVKs

| Sr. No.  | Crop                | Variety | Area (ha.) | Expected Production (Kg) |
|----------|---------------------|---------|------------|--------------------------|
| OILSEEDS | Groundnut (Breeder) | GJG-22  | 5.70       | 3700                     |
|          | Groundnut (Breeder) | GJG-9   | 3.6        | 2000                     |
|          | Groundnut (Breeder) | GJG-32  | 1.05       | 800                      |
|          | Groundnut (Breeder) | GJG-31  | 1.80       | 950                      |
|          | Groundnut (TF)      | GJG-32  | 1.64       | 1500                     |
| Pulse    | Gram (TF)           | GC-4    | 1.0        | 530                      |
| Other    | Cumin (TF)          | GJG-3   | 1.0        | 2850                     |

#### Production of Bio-Products : Nil

| Bio Products    | Name of the bio-product | Quantity | Value (Rs.) | No. of Farmers |
|-----------------|-------------------------|----------|-------------|----------------|
|                 |                         | Kg       |             |                |
| Bio Fertilisers |                         |          |             |                |
| Bio-pesticide   |                         |          |             |                |
| Bio-fungicide   |                         |          |             |                |
| Bio Agents      |                         |          |             |                |
| Others          |                         |          |             |                |
| <b>Total</b>    |                         |          |             |                |

### 4. LITERATURE DEVELOPED/PUBLISHED (with full title, author & reference)

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

#### B. Literature developed/published

| Sr. No. | Name of Articles  | Name of Journals / Organised  | Month & Year   | Authors   |
|---------|---|---|----------------|---|
| 1.      | Review on truth of organic farming  | Journal of Pharmacognosy and Phytochemistry, Sp. 9(5): 827-830.   | Sept-Oct, 2020 | Patel T.J., Vora V.D., Hirpara D.S., Vadar H R., <b>Sanepara D.P.</b> , Modhavadiya V.L., Vekariya P. D. and Jotangiya,K.S. |
| 2       | Effect of Alley Width, Organic Manure and <i>In-situ</i> Moisture Conservation on Groundnut Productivity under Dryland Ecosystem. | Anmed Medhat Mohamed Al-Nagar (Eds), <b>Cutting-edge Research in Agricultural Sciencies Vol.1. Book</b> Publisher International, London, UK.pp. 86-93. <b>Chapter 8</b> , ISBN: 978-93-90149-71-1(Print), ISBN: 978-93-90149-24-7(eBook), <a href="https://DOI: 10.9734/bpi/cras/v1">https://DOI: 10.9734/bpi/cras/v1</a> | June, 2020     | Vekaria P. D., <b>Sanepara D. P.</b> , Vora V. D., Hirpara D. S. and Poonia T. C.   |

|   |  |   |              |  |
|---|--|---|--------------|--|
| 3 | Estimation and Assessment of Productivity and Economics of Cotton ( <i>Gossypium hirsutum</i> ) - based Intercropping System under Rainfed Conditions of North Saurashtra Agro-climatic Zone of Gujarat. | Aneta T. Popova (Eds), <b>Cutting-edge Research in Agricultural Sciences Vol.4. Book</b> Publisher International, London, UK.pp. 58-63. <b>Chapter 4</b> , ISBN: 978-93-90431-98-4 (Print), ISBN: 978-93-90431-01-4(eBook), <a href="https://DOI: 10.9734/bpi/cras/v4">https://DOI: 10.9734/bpi/cras/v4</a> | August, 2020 | Vekariya P. D., Vadaria K. N., Vora V. D., <b>Sanepara D. P.</b> and Hirpar, D. S. |
| 4 | Transgenic plant based edible vaccine- A review  | International Journal of Animal & Veterinary science  | 2020         | <b>Tajpara M.M.</b> , Savsani H.H., Shah N.M., Padodara R.J. and Kathiriya J.B.    |
| 5 | Application of Climate Resilient technologies in NICRA village of Rafala   | Gujarat Journal of Extension Education  | 2020         | <b>Tajpara M.M.</b> , Kalsariya B.N., Dadhania V.P. Kabaria B.B.                   |
| 6 | Knowledge of Dairy farmers toward animal husbandry practices   | Gujarat Journal of Extension Education  | 2020         | <b>Tajpara M.M.</b> , Kalsariya B.N., Dadhania V.P., Kabaria B.B.                  |
| 7 | Epidemiological surveillance of dengue fever -an overview  | International journal of veterinary sciences and animal husbandry   | 2020         | Kathiriya J.B., Shah N.M., Patel J.S. and <b>Tajpara M.M.</b>                      |
| 8 | Transmissible spongiform encephalopathies - Emerging threats   | International journal of veterinary sciences and animal husbandry   | 2020         | Kathiriya J.B., Shah N.M., Sindhi S.H. and <b>Tajpara M.M.</b>                     |
| 9 | Impediments confronted and suggestion offered by farm women towards Animal Husbandry practices   | International Journal of Live stock Research, Vol. 10(12)   | Dec. 2020    | Khushbuba Mahavirsinh Jadeja, B.N.Kalsariya, <b>M.K.Jadeja</b> and Divya Patel     |

### C. Details of Electronic Media Produced

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

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).

## ૧. શિવણ વ્યવસાય દ્વારા સ્વરોજગાર

|                                   |                             |
|-----------------------------------|-----------------------------|
| નામ : સોનીયાબેન જેન્તીભાઈ વાંધાણી | ઉંમર : ૨૦ વર્ષ              |
| ગામ : કમળાપુર                     | અભ્યાસ : ૧૨ ધોરણ પાસ (કોલેજ |
| તાલુકો : જસદણ                     | ચાલુ)                       |
| જીલ્લો : રાજકોટ                   | જમીન : ૧૦ વીધા              |
| મો. : ૭૩૫૯૪૭૨૭૩૮                  | પશુઓ : ૨ બળદ                |

કુ. સોનીયાબેન જેન્તીભાઈ વાંધાણી રાજકોટ જીલ્લાના જસદણ તાલુકાના કમળાપુર ગામના વતની છે. છેલ્લા બે વર્ષથી કૃષિ વિજ્ઞાન કેન્દ્ર, જી.કૃ.યુ., તરઘડીયા સાથે સંકળાયેલ છે. આ ગામમાં વર્ષ ૨૦૨૦ માં મહિલા તાલીમ કેન્દ્ર, પયા વરણ કેન્દ્ર જસદણ અને કૃષિ વિજ્ઞાન કેન્દ્ર, જી.કૃ.યુ., તરઘડીયાના સંયુક્ત ઉપક્રમે બે મહિનાની શિવણ અંગેની વ્યવસાયલક્ષી તાલીમનું આયોજન કરેલ. સોનીયાબેન આ તાલીમમાં ભાગ લઈ અને વિવિધ પ્રકારના કપડાની સિલાઈ કામ શિખ્યા. તાલીમ પૂણ થયા બાદ પોતે પોતાના ઘરે જુનુ મશીન દ્વારા ગામના લોકોના કપડાઓ સીવવાનુ શરૂ કયુ . શરૂઆતમાં તેઓ મહિનામાં રૂ.૮૦૦ થી ૧૦૦૦ ની કમાણી કરવા લાગ્યા. માય ૨૦૨૦માં કોવિડ-૧૯ ના લીધે લોક ડાઉન આવતા બહેનો બહાર ખરીદી કરવા ન જતા સોનીયાબેન પાસે કપડા સિવડાવવા લાગ્યા અને સોનીયાબેન મહિને રૂ.૨૦૦૦ થી ૨૨૦૦ સુધીની કમાણી કરવા લાગ્યા. શિવણના વ્યવસાય માંથી મળેલ આવક માંથી સોનીયાબેને નવુ શિવણ માટેના મશીનની ખરીદી કરી અને પોતાના માટે નવી સાયકલ પણ ખરીદી અને પોતાના પિતાને ઘર ખચ માં મદદ કરવા લાગ્યા.

હાલમાં સોનીયાબેન કોલેજનો અભ્યાસ અને શિવણની કામગીરી બને સાથે સાથે ચાલુ રાખી કમાણી કરે છે.



## ૨. ધનિષ્ઠ ખેતી દ્વારા વધુ આવક મેળવો

નામ: વલ્લભભાઇ રવજીભાઇ મુંગપરા

ગામ: પાડાસણ

તાલુકો : રાજકોટ

જીલ્લો: રાજકોટ

ઉંમર : ૫૧ વર્ષ

અભ્યાસ : ૭ પાસ

ખેતી/પશુપાલન : ૪૦ વર્ષથી

પશુઓ : ગીર ગાય: ૪, ભેંસ : ૧

જમીન ખુબ જ અગત્યનું ઘટક છે. કૃષિમાં જમીનનું મહત્વ અકલ્પનીય છે. જમીનની જાળવણી કરવી એ દરેક નાગરિકની ફરજ છે. જમીનનું ભૌતિક, રાસાયણિક, જૈવિક બંધારણ જાળવવું પણ જરૂરી છે. વલ્લભભાઇ એ ધનિષ્ઠ ખેતી અપનાવીને સમગ્ર ખેડૂત સમુદાયને પ્રેરણા મળે એવું કાર્ય કર્યું છે.

કૃષિ વિજ્ઞાન કેન્દ્ર-તરઘડિયાના સંપર્કમાં આવ્યા બાદ તેઓએ જમીનનું મહત્વ, જમીનના નમૂનાનું પૃથ્થકરણ, જમીનની ફળદ્રુપતા, સૂકી ખેતીમાં આંતર પાક/મિશ્ર પાક/રીલે પાક પદ્ધતિ, સંકલિત ખેતી પદ્ધતિ, જૈવિક ખેતી પદ્ધતિ વગેરેનું મહત્વ સમજીને પોતાના ખેતર પર આધુનિક ખેતીની શરૂઆત કરેલ. ગત વર્ષ દરમ્યાન ચોમાસામાં વાવણી વખતે તુવેર (બીડીએન-૨) ની એક હાર પછી મગફળી (જીજીજી-૪૧) ની પાંચ હાર વાવેલ હતી તેમજ તુવેર અને મગફળીમાં મકાઈ (ઘાસચારા) મિશ્ર પાક તરીકે વાવેલ હતો. આ ઉપરાંત મગફળીની કાપણી બાદ તુવેરની વચ્ચે મકાઈની હારનું વાવેતર કરી ધનિષ્ઠ ખેતી પદ્ધતિ દ્વારા વધુ આવક મેળવેલ છે.

આ ધનિષ્ઠ ખેતી પદ્ધતિ દ્વારા તેઓએ ચોમાસા (૨૦૧૯-૨૦) દરમ્યાન બે હેક્ટરની મગફળીમાંથી ૪૮૦૦ કિલો ઉત્પાદન કરીને રૂ. ૨,૪૪,૩૨૦/- ની આવક તથા ૮૦૦૦ કિલો પાલા માંથી રૂ. ૫૦,૦૦૦/- ની આવક મેળવેલ છે. આમ મગફળીના પાક માંથી કુલ રૂ. ૨,૯૪,૩૨૦/- ની આવક મેળવેલ છે. આ સાથે જ ૧૪૦૦૦ કિલો લીલી તુવેર ના વેચાણથી રૂ. ૪,૯૦,૦૦૦/- અને ૩૬૦૦ કિલો સૂકી તુવેરના વેચાણથી રૂ. ૧,૮૯,૦૦૦/- ની આવક મેળવેલ છે. આમ તુવેરના પાકમાંથી કુલ રૂ. ૬,૭૯,૦૦૦/- ની આવક મેળવેલ છે. મકાઈના પાકની ઘાસચારા જાતનું વાવેતર કરેલ હોવાથી મકાઈના લીલા ચારાનું વેચાણ કરીને રૂ. ૮૦ પ્રતિ ૨૦ કિલોના ભાવે રૂ. ૮૦,૦૦૦/- ના ચારાનું વેચાણ કરેલ છે.

આમ વલ્લભભાઇ એ ધનિષ્ઠ ખેતી દ્વારા મગફળી, તુવેર અને મકાઈના પાકમાં આંતર પાક/મિશ્ર પાક/રીલે પાક પદ્ધતિ અપનાવીને ચોમાસાની ઋતુ દરમ્યાન કુલ રૂ. ૧૦,૫૩,૩૨૦/- નો ચોખ્ખો નફો મેળવેલ છે.

કૃષિ વિજ્ઞાન કેન્દ્ર ખાતે તાલીમ મેળવીને વૈજ્ઞાનિકશ્રીઓ ના માર્ગદર્શન હેઠળ જંતુનાશક દવાઓ, રાસાયણિક ખાતરો વગેરેનો સમજણપૂર્વકનો ઉપયોગ કરીને ધનિષ્ઠ ખેતી પદ્ધતિ દ્વારા વધુમાં વધુ ચોખ્ખો નફો મેળવેલ છે તેમજ મકાઈના પાકમાં પરભક્ષીઓનું રક્ષણ થતાં રોગ-જીવાત પાછળ ઓછો ખર્ચ થવાથી ચોખ્ખો નફો વધુ મળેલ છે.



### 3. Derisking farming through orchard – Raidhanbhai Suvan

Raidhanbhai a young age farmers of Fuljar Village of Vinchhiya block of Rajkot District. He got the land of 11.5 bigha from his father for farming. Since from getting responsibility of farming, he used to cultivate only cotton crop in his land. But due to uncertain rain and sometimes the year with low rainfall, he could not able to get return of investment. He was fed up with traditional farming practices. In year 2016, Representative from Krishi Vighyan Kendra, Rajkot organize training in the Village. He enthusiastically participated in training program where he came to know about the de-risking farming through orchard development. After returning from training, the idea of orchard development was inspiring for the orchard development. In first phase, he has developed orchard of lemon plants in 2 bigha of land in year 2017. After getting the successful survival rate and growth of plants, he was motivated for more area under orchard. And he has planted 150 sapling of guava in his 2 bigha of land. Through this initiative, he is able to earn additional income of Rs. 60000. Right now, he was sowing groundnut and pulses as inter crop. He was not stopped from here, last year in 2018, he has initiated the creeper v egetables and earned around Rs 50000 in 1 bigha of land. So he got additional income of Rs 110000 without affecting the previous income of Rs 100000 from his 11.5 bigha of land.

Now he become the role model for other farmers in Fuljar village and outside also. Through training inputs of KVK, Rajkot and linkages with Govt. scheme and Reliance Foundation support, he has established the model of De-Risking farming.



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

- Use of cow urine, butter milk, bajra flour etc for insect pest and disease management.
- Use of small or wrinkle seeds of groundnut for sowing purpose.
- Farmers grow maize as a mixed crop in groundnut and inter crop in cotton is best practices for sucking pest management by attracting the natural enemies.
- Cotton Stalk Shredder, Wheel Hoe
- Cotton Stalk Puller
- Tractor mounted sprayer
- Chaff Cutter for Minimizing the Animal Fodder Waste
- IPM in Cotton-Use of Trap crop, Pheromone trap, etc.
- Minimizing the chemical Fertilizer and Maximizing organic manure.
- Value addition in different agriculture crops like groundnut, sesame etc.

**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      | Groundnut       | Farmers maintain a set furrow system and apply manure and fertilizers every year in the same furrow. | To get residual effect of manure and fertilizers in succeeding crop |
| 2      | Groundnut       | Some farmers near the river bed, apply sand in the set furrow for increasing                         | To reduce the water Logging condition in the                        |
| 3      | Kharif crops    | Farmer apply life saving supplementary irrigation to the crops during moisture stress condition      | For life saving irrigation to minimize the risk of crop failure     |
| 4      | Cotton          | Farmers grow Maize after 3-4 rows of cotton  | To increase the natural enemies and fodder                          |
| 5      | Cotton          | After heavy rain, farmer apply irrigation to balance the salt concentration at top of soil           | To balance the salt concentration                                   |
| 6      | Groundnut       | Farmers grow maize as mix crop in groundnut  | To increase natural enemies & fodder purpose                        |

**5. No. and Name of villages adopted for Doubling Farmers Income. Indicate whether benchmark survey of the villages are done or not. : Yes, 1. Khoran and 2. Adhiya**

**6. LINKAGES**

**A. Functional linkage with different organizations**

| Name of organization                                       | Nature of linkage  |
|--|--|
| Dy. Director of Agriculture.                               | Most of the Organizations are members of Scientific Advisory Committee (SAC) of KVK and have linkage with different activities of KVK viz., Training Programme, Khedut Sibir, Farmers day, Animal treatment Camp, Farmers fair, Film Show, Ex-training meeting and Soil health card etc. |
| Dy. Director of Agril. Extension (FTC)                     |  |
| Dy. Director of Horticulture                               |  |
| Dy. Director of Animal Husbandry                           |  |
| Dy. Director of Social Forestry                            |  |
| Jilla Udhhyong Kendra                                      |  |
| Milk Co-Operative Society (Gopal Dairy)                    |  |
| Bank of Baroda   |  |
| National Bank for Agriculture & Rural Development (NABARD) |  |
| NHRDF  |  |

|  |  |
|--|--|
| Doordarshan Kendra                           |  |
| All India Radio                              |  |
| WALMI  |  |
| District Rural Development Agency(DRDA)      |  |
| ATMA   |  |
| GLDC   |  |
| District Watershed Development Agency (DWDA) |  |
| GGRC   |  |
| Reliance foundation                          |  |
| GSFC   |  |
| GNFC   |  |
| IFFCCO                                       |  |
| KRIBHCO                                      |  |

## B. Details of linkage with ATMA

a) Is ATMA implemented in your district : Yes

### 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                             | Staff meeting                                | 3                                       | -                                  | -                      |
| 02        | Research Projects                    | -  | -                                       | -                                  | -                      |
| 03        | Training Programmes                  | Farmers Training                             | 10                                      | 3                                  | -                      |
| 04        | Demonstrations                       | Technology Deminstrations                    | 5                                       | 5                                  |                        |
| 05        | Extension Programmes                 |  |   |                                    |                        |
|           | KisanMela                            | Participant in Mela                          | -                                       | -                                  | -                      |
|           | Technology Week                      |  | -                                       | -                                  | -                      |
|           | Exposure visit                       | Exposure visit by ATMA of Progresive farmers | 10                                      | -                                  | -                      |
|           | Exhibition                           | Exhibition organized at KVK                  | -                                       | -                                  |                        |
|           | Soil health camps                    | -  | 5                                       | 1                                  | -                      |
|           | Animal Health Campaigns              | -  | -                                       | -                                  | -                      |
|           | Others (Pl. specify)                 | -  | -                                       | -                                  | -                      |
| <b>06</b> | <b>Publications</b>                  | -  | -                                       | -                                  | -                      |
|           | Video Films                          | -  | -                                       | -                                  | -                      |
|           | Books                                | -  | -                                       | -                                  | -                      |
|           | Extension Literature                 | -  | -                                       | -                                  | -                      |
|           | Pamphlets                            | -  | -                                       | -                                  | -                      |
|           | Others (Pl. specify)                 | -  | -                                       | -                                  | -                      |
| <b>07</b> | <b>Other Activities (Pl.specify)</b> | -  | -                                       |                                    |                        |
|           | Watershed Approach                   | -  | -                                       | -                                  | -                      |
|           | Integrated Farm Development          | -  | -                                       |                                    |                        |

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

## 8. Innovator Farmer's Meet

| Sl.No. | Particulars  | Details |
|--------|--|---------|
| 1      | Have you conducted Farm Innovators meet in your district?  | Yes     |
|        | On 23 <sup>rd</sup> December 2020 "Kisan Divas" was celebration at Krishi Vigyan Kendra, Rajkot-I. Total 72 farmers and farm women were participated in this programme. Total 35 Progressive farmers were honored with certificate & mementos by KVK. Who have done specific contribution in Agriculture, Horticulture, Animal Science, Value addition etc. Shree Govindbhai Patel, MLA, Rajkot (South), Dr. D. S. Hirpara, Research Scientist, DFRS, Targhadia, Dr. B. B. Kabaria, Senior Scientist and Head, KVK, Targhadia, Mrs. H. H. Padsumbiya and team of KVK and Reliance foundation and CEE, Jasdan officers companies were present in this event. Also some farmers shared their views on innovativeness and cleanliness drive in Agriculture. |         |

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

1. To enhance the farmers to use recently developed certified varieties of different crops.
2. Proper use of fertilizers, Irrigations, insecticides and fungicides as per recommendation to reduce the production cost.
3. Cumin variety GC-4 is high yielding but gradually loosing wilt resistant character
4. Pink ball worm in cotton
5. Reddening in cotton
6. Heavy infestation of thrips in crops like garlic, onion, cotton
7. Late and poor germination was observed in cumin variety GC-4
8. Research needed for control of insect-pests and diseases in organic farming
9. White grub problem in groundnut
10. Problem of repeat breeding in cattle & buffaloes.
11. Anoestrus problem in Cow and Buffaloes

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

Yellowing and drying of cotton plants immediatly often rainfall.

Newly released garlic variety is poor in yield.

Management of thrips is problem in all the major crops in district.

## 10. Technology Week celebration during - No

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

### A. Introduction of alternate crops/varieties

| State   | Crops/cultivars | Area (ha) | Number of beneficiaries |
|---------|-----------------|-----------|-------------------------|
| Gujarat | Groundnut       | 1300      | 900                     |

**B. Major area coverage under alternate crops/varieties**

| Crops           | Area (ha) | Number of beneficiaries |
|-----------------|-----------|-------------------------|
| Oilseeds        | 1300      | 900                     |
| Pulses          |           |                         |
| Cereals         |           |                         |
| Vegetable crops |           |                         |
| Tuber crops     |           |                         |
| <b>Total</b>    |           |                         |

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

| State            | Livestock components | Number of interactions | No.of participants |
|------------------|----------------------|------------------------|--------------------|
| Farmer's meeting | 2                    | 98                     |                    |
| Farmer's seminar | -                    | -                      |                    |
| Group meeting    | 3                    | 57                     |                    |
| <b>Total</b>     | <b>5</b>             | <b>155</b>             |                    |

**D. Animal health camps organized**

| State        | Number of camps | No.of animals | No.of farmers |
|--------------|-----------------|---------------|---------------|
| Gujarat      | 1               | 110           | 85            |
| <b>Total</b> | <b>1</b>        | <b>110</b>    | <b>85</b>     |

**E. Seed distribution in drought hit states**

| State        | Crops     | Quantity (qtl) | Coverage of area (ha) | Number of farmers |
|--------------|-----------|----------------|-----------------------|-------------------|
| Gujarat      | Chick pea | 12.50          | 20                    | 50                |
| <b>Total</b> |           |                |                       |                   |

**F. Large scale adoption of resource conservation technologies**

| State        | Crops/cultivars and gist of resource conservation technologies introduced  | Area (ha) | Number of farmers |
|--------------|--|-----------|-------------------|
| Gujarat      | Adoption of Trichoderma culture powder for the management of stem rot disease in groundnut   | 5322      | 46789             |
|              | Adoption of <i>Bt.</i> cotton varieties.   | 328897    | 82224             |
|              | Farmers prefers to sow semi spreading and high yielding variety of groundnut i.e. GG-20 and GJG-22.  | 204808    | 51702             |
|              | Most of the farmers adopt new variety of cumin (GC-4) which is resistant to wilt disease   | 20108     | 5102              |
|              | Intercropping/mix cropping in groundnut and cotton was adopted for minimize the risk factor in dry land agriculture with preservation of natural enemies | 21789     | 6342              |
|              | Farmers are ready to use of rotavator/ cotton shredder/ mobile chopper for increasing the organic matter in soil particularly in cotton system.          | 174532    | 43633             |
| <b>Total</b> |  |           |                   |

**G. Awareness campaign**

| State        | Meetings |               | Gosthies |               | Field days |               | Farmers fair |               | Exhibition |               | Film show |               |
|--------------|----------|---------------|----------|---------------|------------|---------------|--------------|---------------|------------|---------------|-----------|---------------|
|              | No.      | No.of farmers | No.      | No.of farmers | No.        | No.of farmers | No.          | No.of farmers | No.        | No.of farmers | No.       | No.of farmers |
| Gujarat      | 5        | 236           | 7        | 109           | --         | -             | -            | -             | 1          | 602           | 2         | 54            |
| <b>Total</b> | <b>5</b> | <b>236</b>    | <b>7</b> | <b>109</b>    |            |               |              |               | <b>1</b>   | <b>602</b>    | <b>2</b>  | <b>54</b>     |

## 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) |
| Cumin Variety (GC-4)   | 232                 | 84            | 30000                  | 45000            |
| Improved variety of Gram (GJG-3)   | 157                 | 72            | 27500                  | 35000            |
| Wheat variety (GW-496, 366)  | 268                 | 75            | 32500                  | 37500            |
| Use of Trichoderma culture powder for the control of stem rot in groundnut | 347                 | 67            | 28125                  | 31500            |

### B. Cases of large scale adoption

- Adoption of *Trichoderma* culture powder for the management of stem rot disease in groundnut
- Adoption of *Bt.* cotton varieties with INM and IPM concepts.
- Farmers prefers to sow semi spreading and high yielding variety of groundnut i.e. GG-20 and GJG-22.
- Most of the farmers adopt new variety of cumin (GC-4) which is resistant to wilt disease
- Intercropping/mix cropping in groundnut and cotton was adopted for minimize the risk factor in dry land agriculture with preservation of natural enemies.
- Farmers are ready to use of rotavator/ cotton shredder/ mobile chopper for Increasing the organic matter in soil particularly in *Bt.* Cotton cropping system

### 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 |
|-----------|-----------------|--------------------------------------|-------------------------------------|
| January   | 2               | 3000                                 | -                                   |
| February  | 2               | 3000                                 | -                                   |
| March     | 2               | 3000                                 | -                                   |
| April     | 2               | 3000                                 | -                                   |
| May       | 2               | 3000                                 | -                                   |
| June      | 2               | 3000                                 | -                                   |
| July      | 2               | 3000                                 | -                                   |
| August    | 2               | 3000                                 | -                                   |
| September | 2               | 3000                                 | -                                   |
| October   | 2               | 3000                                 | -                                   |
| November  | 2               | 3000                                 | -                                   |
| December  | 2               | 3000                                 | -                                   |

| Name of KVK | Message Type                    | Type of Messages |           |             |             |             |                  | Total |
|-------------|---------------------------------|------------------|-----------|-------------|-------------|-------------|------------------|-------|
|             |                                 | Crop             | Livestock | Weather     | Marketing   | Awareness   | Other enterprise |       |
| Rajkot      | Text only                       |                  |           | 22          | 2           | 1           |                  | 25    |
|             | Voice only                      |                  |           |             |             |             |                  |       |
|             | Voice & Text both               |                  |           |             |             |             |                  |       |
|             | <b>Total Messages</b>           |                  |           |             |             |             |                  |       |
|             | <b>Total farmers Benefitted</b> |                  |           | <b>3000</b> | <b>3000</b> | <b>3000</b> |                  |       |

#### 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.)   |              | Remark |
|---------|-------------------------------|-----------------------|---------------|-----------------------|---------|------|----------------|--------------|--------|
|         |                               |                       |               | Variety               | Produce | Qty. | Cost of inputs | Gross income |        |
| 1       | Water Harvest Structure       | 2001                  | 40x 30x 15 mt | -                     | -       | -    | -              | -            | -      |
| 2       | Arid Horticulture             | -                     | -             | -                     | -       | -    | -              | -            | -      |
| 3       | Soil Testing Lab              | 2006                  | -             | -                     | -       | -    | 710000         | -            | -      |
| 4       | Bio Gas Plant                 | 2006                  | -             | -                     | -       | -    | 42000          | -            | -      |
| 5       | Tractor mounted sprayer       | 2007                  | -             | -                     | -       | -    | 43000          | -            | -      |
| 6       | Dibbler                       | 2007                  | -             | -                     | -       | -    | 900            | -            | -      |
| 7       | Cotton Stalk Shredder         | 2007                  | -             | -                     | -       | -    | 43000          | -            | -      |
| 8       | Cotton Stalk Puller           | 2007                  | -             | -                     | -       | -    | 1200           | -            | -      |
| 9       | Wheel Hoe                     | 2007                  | -             | -                     | -       | -    | 1260           | -            | -      |
| 10      | Veterinary mobile unit        | 2008                  | -             | -                     | -       | -    | 600000         | -            | -      |
| 11      | Processing Unit               | 2009                  |               |                       |         |      | 1685000        |              |        |
| 12      | Vermi composting unit         | 2009                  | 0.05          |                       |         |      |                |              |        |
| 13      | Nadep composting              | 2014                  |               |                       |         |      |                |              |        |
| 14      | Crop cafeteria                | 2009                  | 0.10          |                       |         |      |                |              |        |
| 15      | Agro-met advisory service     | 2013                  |               |                       |         |      |                |              |        |
| 16      | Farm pond                     | 2001                  | 0.48          |                       |         |      |                |              |        |
| 17      | Organic farming unit in 1 ha. | 2016                  | 1.00          |                       |         |      |                |              |        |
| 18      | KVK Museum                    | 2011                  |               |                       |         |      |                |              |        |

**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                   |                |                 |           |                       |                 |      |                |              |         |
|                           |                |                 |           |                       |                 |      |                |              |         |
| Pulses                    |                |                 | 1.0       | GC-4                  | TF              | 530  |                |              |         |
|                           |                |                 |           |                       |                 |      |                |              |         |
| Oilseeds                  |                |                 | 1.05      | GJG-32                | Breeder         | 800  |                |              |         |
|                           |                |                 | 5.70      | GJG-22                | Breeder         | 3700 |                |              |         |
|                           |                |                 | 3.6       | GJG-9                 | Breeder         | 2000 |                |              |         |
|                           |                |                 | 1.80      | GJG-31                | Breeder         | 950  |                |              |         |
|                           |                |                 | 1.64      | GJG-32                | TF              | 1500 |                |              |         |
| Others                    |                |                 | 1.0       | GJG-3                 | TF              | 2850 |                |              |         |
|                           |                |                 |           |                       |                 |      |                |              |         |
| Spices & Plantation crops |                |                 |           |                       |                 |      |                |              |         |
|                           |                |                 |           |                       |                 |      |                |              |         |
| Floriculture              |                |                 |           |                       |                 |      |                |              |         |
|                           |                |                 |           |                       |                 |      |                |              |         |
| Fruits                    |                |                 |           |                       |                 |      |                |              |         |
|                           |                |                 |           |                       |                 |      |                |              |         |
| Vegetables                |                |                 |           |                       |                 |      |                |              |         |
|                           |                |                 |           |                       |                 |      |                |              |         |
| Others (specify)          |                |                 |           |                       |                 |      |                |              |         |
|                           |                |                 |           |                       |                 |      |                |              |         |
|                           |                |                 |           |                       |                 |      |                |              |         |

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

| Sl. No. | Name of the Product | Qty | Amount (Rs.)   |              | Remarks |
|---------|---------------------|-----|----------------|--------------|---------|
|         |                     |     | Cost of inputs | Gross income |         |
| 1       |                     |     |                |              |         |
| 2       |                     |     |                |              |         |

**D. Performance of instructional farm (livestock and fisheries production) : Nil**

| Sl. No | Name of the animal / bird / aquatics | Details of production |                 |      | Amount (Rs.)   |              | Remarks |
|--------|--------------------------------------|-----------------------|-----------------|------|----------------|--------------|---------|
|        |                                      | Breed                 | Type of Produce | Qty. | Cost of inputs | Gross income |         |
|        |                                      |                       |                 |      |                |              |         |



## 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 | SBI              | Junagadh |             |                                       |                |             |             |
| With KVK            | SBI              | Rajkot   | 463         | TRAINING<br>ORG.KVK.JAU.<br>TARGHADIA | 10353003175    | 360002002   | SBIN0000463 |

### B. Utilization of KVK funds during the year 2020-21 (Up to Dec. 2020) (Rs. in lakh)

| S. No.      | Particulars   | Sanctioned    | Released     | Expenditure  |
|-------------|---|---------------|--------------|--------------|
| <b>13.1</b> | <b>Recurring Contingencies</b>  |               |              |              |
| 13.1.1      | <b>Pay &amp; Allowances</b>   | <b>85.00</b>  | <b>61.00</b> | <b>68.00</b> |
| 13.1.2      | <b>Traveling allowances</b>   |               |              |              |
| 13.1.3      | <b>Contingencies</b>  | 15.00         | 7.35         | 6.30         |
| 13.1.4.1    | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance |               |              |              |
| <i>B</i>    | POL, repair of vehicles, tractor and equipment  |               |              |              |
| <i>C</i>    | Meals/refreshment for trainees  |               |              |              |
| <i>D</i>    | Training material   |               |              |              |
| <i>E</i>    | Frontline demonstration except oilseeds and pulses  |               |              |              |
| <i>F</i>    | On farm testing   |               |              |              |
| <i>G</i>    | Training of extension functionaries   |               |              |              |
| <i>H</i>    | Maintenance of buildings  |               |              |              |
| <i>I</i>    | Establishment of Soil, Plant & Water Testing Laboratory   |               |              |              |
| <i>J</i>    | Library   |               |              |              |
| <b>13.1</b> | <b>Total Recurring</b>  | <b>15.00</b>  | <b>7.35</b>  | <b>6.30</b>  |
| <b>13.2</b> | <b>Non-Recurring Contingencies</b>  |               |              |              |
| 13.2.1      | <b>Works</b>  |               |              |              |
| 13.2.2      | <b>Equipment including SWTL &amp; Furniture</b>   |               |              |              |
| 13.2.3      | <b>Vehicle (Four wheeler)</b>   |               |              |              |
| 24.2.4      | <b>Library</b>  |               |              |              |
| <b>13.2</b> | <b>Total Non-Recurring</b>  |               |              |              |
| <b>13.3</b> | <b>REVOLVING FUND</b>   |               |              |              |
| <b>13.4</b> | <b>GRAND TOTAL (A+B+C)</b>  | <b>100.00</b> | <b>68.35</b> | <b>74.30</b> |

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

| Year                      | Opening balance as on 1 <sup>st</sup> April | Income during the year | Expenditure during the year | Net balance in hand as on 1 <sup>st</sup> April of each year |
|---------------------------|---|------------------------|-----------------------------|--|
| April 2018 to March 2019  | 25,78,697                                   | 25,57,179              | 24,79,409                   | 26,56,467  |
| April 2019 to March. 2020 | 26,56,467                                   | 19,39,208              | 19,41,027                   | 26,54,648  |
| April 2020 to Dec. 2020   | 26,54,648                                   | 20,91,275              | 15,42,336                   | 32,03,587  |

### 16. Details of HRD activities attended by KVK staff during year

| SN | Duration      | Name of Scientist                  | Topic/Objective  | Venue                          | Type             |
|----|---------------|------------------------------------|--|--------------------------------|------------------|
| 1  | 2-3/01/2020   | Dr. M. M. Tajpara                  | Annual Review workshop of TDC-NICRA  | Ahmednagar, Maharashtra, India | Workshop         |
| 2  | 7-9/01/2020   | Dr. M. M. Tajpara                  | To Improve Knowledge on Recent Extension Approaches for Effective Transfer of Technology     | JAU, Junagadh                  | Training         |
| 3  | 7-9/01/2020   | Dr. J. H. Chudhriy                 | To Improve Knowledge on Recent Extension Approaches for Effective Transfer of Technology     | JAU, Junagadh                  | Training         |
| 4  | 7-9/01/2020   | Dr. M. K. Jadeja                   | To Improve Knowledge on Recent Extension Approaches for Effective Transfer of Technology     | JAU, Junagadh                  | Training         |
| 5  | 10/02/2020    | Dr. J. H. Chudhriy                 | Review Meeting of Seed Hub   | Bhopal                         | Review Meeting   |
| 6  | 10-12/02/2020 | Dr. J. H. Chudhriy                 | Internation conference on “Pulses as the climate smart crops : Challenges and opportunities” | Bhopal                         | Conference       |
| 7  | 12/06/2020    | Dr.M.M. Tajpara<br>Dr.B.B.Kabaria  | Shaping future programme of NICRA (2020-25)  | TDC-NICRA , CRIDA, Hyderabad   | Workshop         |
| 8  | 13-14/06 2020 | D.P. Sanepara                      | Post COVID-19 Agribusiness: Challenges and Opportunities                                     | JAU, Junagadh                  | National Webinar |
| 9  | 16/06/2020    | Dr. B. B. Kabaria<br>D.P. Sanepara | Review Workshop of ARYA  | Online                         | Workshop         |
| 10 | 10-12/07/2020 | Dr.M.M. Tajpara                    | Online Annual zonal workshop of KVK Maharashtra, Gujarat, Goa                                | ATARI-Pune                     | Workshop         |
| 11 | 07/08/2020    | Dr.M.M. Tajpara                    | Online Annual Zonal Review workshop -NICRA   | ATARI-Pune                     | Workshop         |
| 12 | 21/11/2020    | Dr.M.M. Tajpara                    | World Fisheries Day  | ICAR-New Delhi                 | workshop         |
| 13 | 28/11/2020    | Dr M.M. Tajpara<br>Dr B.B.kabaria  | Transforming animal husbandry sector   | ATARI-Pune                     | workshop         |