

# ICAR-KRISHI VIGYAN KENDRA, HIREHALLI TUMAKURU DISTRICT



## ANNUAL REPORT 2020

(FOR THE PERIOD FROM 01 JANUARY 2020 TO 31 DECEMBER 2020)



**ICAR-KRISHI VIGYAN KENDRA**  
Hirehalli, NH-48, Tumakuru District  
Karnataka - 572168

**ICAR-INDIAN INSTITUTE OF HORTICULTURAL RESEARCH**  
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## **GENERAL INSTRUCTIONS**

**Please read the following instructions very carefully before starting preparation of the report.**

- Annual report is the most important document for the KVK and it directly reflects the overall achievements pertaining to the reported period. Hence due care needs to be given by each KVK while preparing the report.
- Period of Report is from 01 January, 2020 to 31 December, 2020.
- Action photographs with relevant captions covering all OFTS/FLDS/TRAINING/EXTENSION activities of the KVK in High resolution should be submitted separately in a CD/DVD along with this report. A part from this, soft copy of the activity wise photos may be submitted in JPEG format.
- Prepare Summary tables carefully tallying with the relevant portions of the main report on all aspects.
- Retain the blank column and rows as such and do not merge the cells. Please specify NIL, wherever not applicable or details are not available.
- Check the names of varieties and hybrids and specify in the report.
- Check the units and totals of each data table.
- Extension activity under celebrations for each important day, please insert separate rows and give appropriate data separately. Clubbing of data should be avoided.
- Success stories/case studies should be supported with data tables and graphs. Without photos success stories will not be considered for inclusion in Annual Report of ATARI.



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

| S. No. | Item                      | Area (ha) |
|--------|---------------------------|-----------|
| 1      | Under Buildings           | 1.7       |
| 2.     | Under Demonstration Units | 2.95      |
| 3.     | Under Crops               | 2.3       |
| 4.     | Orchard/Agro-forestry     | 9.85      |
| 5.     | Others                    | 0         |

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

| S. 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     |                   |                 |                    |                   |               |                    |                        |
| 2.     | Farmers Hostel              |                   |                 |                    |                   |               |                    |                        |
| 3.     | Staff Quarters              |                   |                 |                    |                   |               |                    |                        |
|        | 1                           |                   |                 |                    |                   |               |                    |                        |
|        | 2                           |                   |                 |                    |                   |               |                    |                        |
| 4.     | Demonstration Units         |                   |                 |                    |                   |               |                    |                        |
|        | 1 Animal Shed               | RFS-KVK           | 04.01.2018      | 300                | 99,800            |               |                    |                        |
|        | 2 Shade net                 | RFS-KVK           | 26.12.2017      | 196                | 40,000            |               |                    |                        |
|        | 3 AMC Liquid Unit           | RFS-KVK           | 08.10.2017      | -                  | 95,000            |               |                    |                        |
| 5      | Fencing                     |                   |                 |                    |                   |               |                    |                        |
| 6      | Rain Waterharvesting system |                   |                 |                    |                   |               |                    |                        |
| 7      | Threshing floor             |                   |                 |                    |                   |               |                    |                        |
| 8      | Farm godown                 |                   |                 |                    |                   |               |                    |                        |
| 9      | Solar lights                | IIHR              | 03.03.2018      | -                  | 6,46,713          |               |                    |                        |
| 10     | Toilet at farm              | IIHR              | 01.01.2018      | -                  | 3,96,000          |               |                    |                        |
| 1.     | Administrative Building     |                   |                 |                    |                   |               |                    |                        |
| 2.     | Farmers Hostel              |                   |                 |                    |                   |               |                    |                        |
| 3.     | Staff Quarters              |                   |                 |                    |                   |               |                    |                        |
|        | 1                           |                   |                 |                    |                   |               |                    |                        |
|        | 2                           |                   |                 |                    |                   |               |                    |                        |

**B) Vehicles**

| Type of vehicle    | Year of purchase | Cost (Rs.) | Total kms. Run | Present status |
|--------------------|------------------|------------|----------------|----------------|
| Bolero Diesel Jeep | 2009             | 596783     | 302724         | Good           |
| Motor Cycle        | 2010             | 52658      | 53964          | Good           |
| Honda – Aviator    | 2010             | 46025      | 40279          | Good           |
| Power Tiller       | 2010             | 1 42400    | 47 Hours       | Good           |
| Tractor            | 2011             | 560000     | 5047 Hours     | Good           |

**C) Equipment & AV aids**

| Name of the equipment          | Year of purchase | Cost (Rs.) | Present status |
|--------------------------------|------------------|------------|----------------|
| Xerox Machine                  | 2010             | 67,262     | Good Condition |
| White Board with Stand         | 2010             | 1,500      | Good Condition |
| LCD Projector with Accessories | 2010             | 1,00,000   | Good Condition |
| LCD Projector with Accessories | 2018             | 45,000     | Good Condition |
| LED TV                         | 2017             | 64,000     | Good Condition |

|                        |      |        |                |
|------------------------|------|--------|----------------|
| Public Address System  | 2017 | 20,000 | Good Condition |
| R.O.S system           | 2017 | 72,000 | Good Condition |
| Solar Hot Water System | 2017 | 72,000 | Good Condition |

### 1.8. Details of SAC meeting conducted during 2020

| Date       | Number of Participants | Salient Recommendations                                                                                                          | Action taken                                                                                                                                                                                                                                                                                               | Remarks, if any |
|------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 11.02.2019 | 50                     | Implementation of DFI in Sujalaand NICRA adopted villages is to be ensured                                                       | DFI concept based activities have been implemented in one of the NICRA adopted village (Tanganahalli).                                                                                                                                                                                                     |                 |
|            |                        | Demonstration Organic farming technologies at Durgadahalli Cluster village need to be taken                                      | Organic farming technologies like application of Jeevamrutha and suitable varieties like Arka Suvitha (French Bean) were introduced.                                                                                                                                                                       |                 |
|            |                        | Crop wise constraints in DFI villages need be assessed                                                                           | Bench mark survey of 50 farmers from each DFI village was collected including crop wise constraints. Interventions (based on assessing these constraints) will be carried out in the coming years.                                                                                                         |                 |
|            |                        | ArkaPrajwal(Tuberose) need to be introduced in Pavagada cluster                                                                  | A demonstration was taken up in Venkatapura village of Pavagada cluster. Based on the need of farmers, an FLD shall be proposed in 2020.                                                                                                                                                                   |                 |
|            |                        | Replacement of TMV-2 with adequate support (Change in sieve in oil mill etc) need to be explored                                 | HYVs of Groundnut from NRC Groundnut, Gujarat (DGMRB-24, DGMRB-32 and TG-37 A) were taken on OFT in 2019. The results could help us in deciding the options of replacement of TMV-2. On discussion with KOF officers, an information about TMV-10 (TNAU) was received. This could be tried on OFT in 2020. |                 |
|            |                        | Demonstration of K6 Groundnut varieties in Tumakuru Dist. need to be encouraged                                                  | Under CFLD, improved varieties of Groundnut (K6) was demonstrated in 20 ha.                                                                                                                                                                                                                                |                 |
|            |                        | Increase oil seed area by suggesting alternative crop under DFI                                                                  | Pusa mustard varieties were introduced in selected areas under OFT in 2019. In collaboration with KOF and IARI, Regional Station, Wellington (Tamil Nadu), further up scaling will be taken up in the coming years.                                                                                        |                 |
|            |                        | Improved New Maize varieties need to be introduced                                                                               | New Maize variety (MAH-14-5) was introduced under FLD in 2019. Another new variety (MAH-14-138) from VC Farm, Mandya is to be taken in 2020 under Field Trials at KVK Hirehalli farm and farmers fields.                                                                                                   |                 |
|            |                        | Amyworm control in maize and ragi needs to be given awareness by conducting campaigns in collaboration with Dept. of Agriculture | Awareness programmes, training activities were organized in collaboration with Dept. of Agriculture on 18/09/2019.                                                                                                                                                                                         |                 |
|            |                        | Decomposing method in arecanut husk need to be explored                                                                          | An OFT on Decomposing Arecanut husk is under progress.                                                                                                                                                                                                                                                     |                 |
|            |                        | IFS concept can be encouraged in KVK                                                                                             | The IFS concept is already in practice                                                                                                                                                                                                                                                                     |                 |

|  |  |                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  |  |                                                                                                                                                                    | in KVK farm. Every year minimum one additional component is being introduced. Farmers are also encouraged to take up IFS models.                                                                                                                                                                                                                                                                                                               |  |
|  |  | Marvel grass fodder variety for demonstration can be tried                                                                                                         | FLDs on Marvel grass, Hybrid Napier Bajara, Fodder Sorghum varieties were taken up in 2019.                                                                                                                                                                                                                                                                                                                                                    |  |
|  |  | FPO members needs to be invited to KVK for Knowledge sharing                                                                                                       | Training programmes for Pavagada FPO were arranged during 15-16, Oct 2019 off campus.                                                                                                                                                                                                                                                                                                                                                          |  |
|  |  | Successful technologies of ICAR and IIHR need to be demonstrated at KVK farm                                                                                       | This is a continuous process of demonstration at KVK farm. However, in 2019 technologies (Improved varieties of flowers and medicinal plants) has given below were introduced to KVK farm. Centella - Arka Divya, Arka Prabhavi, Rose - Arka Swandesh, Arka Pride, Arka Savi, Arka Parimala, Tuberose - Arka Prajwal Crossandra- Arka Chenna, Arka Kanaka, Arka Ambar, Arka Shravya, Gladiolus- Arka Amar, Arka Gold, Arka KumKum, Arka Naveen |  |
|  |  | Vegetable seed production activities can be taken up in the identified farmers' fields.                                                                            | French Bean (Arka Arjun) was introduced in to Badavanahalli village, Pavagada taluk under Vegetable Seed Production.                                                                                                                                                                                                                                                                                                                           |  |
|  |  | Demonstration of Betelvine of local varieties and also production of planting material can be considered                                                           | Planting materials of selected varieties of Betelvine, including local ones, are under production and sale to the needy farmers.                                                                                                                                                                                                                                                                                                               |  |
|  |  | More training and awareness in collaboration with Horticulture dept. and also install more no. of bee hives at KVK instruction farm.                               | DDH was approached for more collaboration work with KVK in terms of training and awareness programmes. No. of beehives were increased from 4 to 15 in this year.                                                                                                                                                                                                                                                                               |  |
|  |  | Medicinal crops like Lemon grass and Palma Rosa can be taken up in Pavagada villages as the alkaloid content is very rich in these crops are grown in this region. | FLDs on Lemon Grass (Krishna) and Palma Rosa (PRC-1.) were taken in DFI village of Pavagada in 2019. Further, awareness is being created to cover other areas under medicinal crops.                                                                                                                                                                                                                                                           |  |

## PART II - DETAILS OF DISTRICT

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

| Sl. No | Farming system/enterprise |
|--------|---------------------------|
| 1      | Dry Land Agriculture      |
| 2      | Dry Land Horticulture     |
| 3      | Dairy                     |

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

| Sl. No | Agro-climatic Zone                                                            | Characteristics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.     | Central Dry Zone<br>(Zone IV)<br>Taluks: Koratgere, Madhugiri, Sira, Pavagada | <ul style="list-style-type: none"> <li>• This zone covers an area of 4.74 Lakhs hectare</li> <li>• The Annual rainfall ranges from 454 and 718 mm, of which more than 55% received in Kharif season.</li> <li>• The elevation ranges from 639 and 1197m</li> <li>• Soils are red sandy loams in major areas, shallow to deep black in remaining areas.</li> <li>• The major crops grown are Ragi, Paddy, Redgram, Groundnut, Sunflower, Coconut, Arecanut, Mango, Banana, Tomato, Brinjal, Beans, Peas, Aster, Dairy</li> </ul> |
| 2.     | Eastern Dry Zone<br>(Zone V)<br>Taluk: Tumakuru                               | <ul style="list-style-type: none"> <li>• This zone covers an area of 1.04 Lakh hectares.</li> <li>• The Annual rainfall ranges from 679 and 889 mm, of which more than 50% received in Kharif season.</li> <li>• The elevation is 818 m from sea level.</li> <li>• Soils are red loamy in major areas, shallow to deep black in remaining areas.</li> <li>• The major crops grown are Groundnut, Maize, Paddy,</li> <li>• Ragi, Redgram, Tomato, Brinjal, Mango, Sapota, Arecanut, Coconut, Aster, Dairy etc.,</li> </ul>       |

| Sl. No | Agro ecological situation | Characteristics                                                               |
|--------|---------------------------|-------------------------------------------------------------------------------|
| 1      | Agro eco sub region-1     | Hot moist, semi-arid ESR with LGP 150-180 days (LGP-length of growing period) |

### 2.3 Soil type/s

| S. No | Soil type          | Characteristics                                                                                                                                                                                                                                                                                                                                             | Area in ha |
|-------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 1.    | Red Sandy Loam     | <ul style="list-style-type: none"> <li>• Colour given by hematite's or Yellow limonite's</li> <li>• Poor in soil fertility</li> <li>• Low base exchange capacity</li> <li>• Deficient in organic matter</li> <li>• Low water holding capacity</li> <li>• The pH ranges from 5.5-6.5</li> <li>• Low cohesion, plasticity &amp; swelling</li> </ul>           | 6,15,230   |
| 2.    | Red Loam           | <ul style="list-style-type: none"> <li>• Colour given by oxides of iron</li> <li>• Poor in soil fertility</li> <li>• Low- medium Base Exchange capacity</li> <li>• Deficient in organic matter</li> <li>• Low water holding capacity</li> <li>• The pH ranges from slightly acidic or neutral</li> <li>• Low cohesion, plasticity &amp; swelling</li> </ul> | 2,04,093   |
| 3.    | Shallow Black Soil | <ul style="list-style-type: none"> <li>• Colour varying from dark brown to dark yellowish brown</li> <li>• Soil with more than 35 per cent clay and crack</li> </ul>                                                                                                                                                                                        | 2,45,432   |

|  |  |                                                                                                                                                                                                                                                                                                        |  |
|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  |  | when it is dry <ul style="list-style-type: none"> <li>• High soil fertility</li> <li>• High base exchange capacity</li> <li>• High organic matter content</li> <li>• High water holding capacity</li> <li>• The pH ranges from 7.5 -8.5</li> <li>• High cohesion, plasticity &amp; swelling</li> </ul> |  |
|  |  |                                                                                                                                                                                                                                                                                                        |  |

#### 2.4. Area, Production and Productivity of major crops cultivated in the district

| Sl. No | Crop                | Area (ha) | Production (Metric tons) | Productivity (kg /ha) |
|--------|---------------------|-----------|--------------------------|-----------------------|
| 1      | Paddy               | 4,858     | 37,064                   | 2,993                 |
| 2      | Maize               | 20,122    | 56,200                   | 2,323                 |
| 3      | Ragi                | 1,44,547  | 2,19,246                 | 1,496                 |
| 4      | Minor Millets       | 2,929     | 3,14,003                 | 1,698                 |
| 5      | Rad gram            | 10,963    | 3,740                    | 359                   |
| 6      | Horse gram          | 16,254    | 8,266                    | 481                   |
| 7      | Field bean (Avaré)  | 6,251     | 3,456                    | 599                   |
| 8      | Ground nut          | 55,299    | 31,016                   | 454                   |
| 9      | Coconut             | 1,45,660  | 12,53,548 (1000 nuts)    | 9,000 Nos             |
| 10     | Areca nut Processed | 32,341    | 2,81,840                 | 9,705                 |

\* Source: Tumakuru District at a Glance 2017-18

#### 2.5. Weather data

| Month          | Rainfall (mm) | Temperature °C |         | Relative Humidity (%) |
|----------------|---------------|----------------|---------|-----------------------|
|                |               | Maximum        | Minimum |                       |
| January 2020   | 2             | 35.5           | -       | 55.78                 |
| February 2020  | 10            | 39.6           | 10.3    | 58.74                 |
| March 2020     | 0             | 42.0           | 11.3    | 56.16                 |
| April 2020     | 24            | 46.6           | 16.6    | 56.77                 |
| May 2020       | 73            | 42.3           | -       | 56.18                 |
| June 2020      | 84            | 46.2           | 4.6     | 65.88                 |
| July 2020      | 43            | 36.4           | 13.1    | 69.80                 |
| August 2020    | 103           | 35.3           | 4.2     | 72.11                 |
| September 2020 | 169           | 36.3           | -       | 66.41                 |
| October 2020   | 238           | 40.0           | 17.0    | 71.78                 |
| November 2020  | 26            | 34.9           | 11.4    | 69.60                 |
| December 2020  | 21            | 34.9           | 10.0    | 69.55                 |

\* Source: KSNDMC, Bengaluru

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

| Category          | Population | Production (tonnes) | Productivity |
|-------------------|------------|---------------------|--------------|
| <b>Cattle</b>     |            |                     |              |
| <i>Crossbred</i>  | 141190     | 341000<br>Milk      | -            |
| <i>Indigenous</i> | 446636     |                     | -            |
| <b>Buffalo</b>    | 241607     |                     | -            |
| <b>Sheep</b>      |            |                     |              |
| <i>Crossbred</i>  | 6565       | 4646<br>Meat        | -            |
| <i>Indigenous</i> | 1061132    |                     | -            |
| <b>Goats</b>      | 517763     |                     | -            |
| <b>Pigs</b>       |            |                     | -            |
| <i>Crossbred</i>  | 144        |                     | -            |
| <i>Indigenous</i> | 7631       |                     | -            |
| <b>Rabbits</b>    | 121        |                     | -            |



| <b>Poultry</b>    |        |                         |   |
|-------------------|--------|-------------------------|---|
| Hens              |        | 48800000<br>No. of eggs | - |
| <i>Desi</i>       |        |                         | - |
| <i>Improved</i>   | 711273 |                         | - |
| Ducks             |        |                         | - |
| Turkey and others |        |                         | - |

| Category      | Area | Production         | Productivity |
|---------------|------|--------------------|--------------|
| Fish          | -    |                    |              |
| <i>Marine</i> | -    |                    |              |
| <i>Inland</i> | -    | 9251.59 metric ton | -            |
| Prawn         | -    | -                  | -            |
| Scampi        | -    | -                  | -            |
| Shrimp        | -    | -                  | -            |

\* Source: www.tumkurzillapanchayat.in

2.7 District profile maintained in the KVK has been **Updated** for 2020: Yes / No

2.8 Details of Operational area / Villages

| Sl.No. | Taluk                                         | Name of the block                             | Name of the village                                                             | Howlong the village is covered under operational area of the KVK (specify the years) | Major crops & enterprises | Major problem identified                                                                                                    | Identified Thrust Areas       |
|--------|-----------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| 1.     | Koratagere<br>Tumakuru<br>Pavagada            | Kolala<br>Pavagada                            | Vaddarahalli<br>Pallavalli                                                      | 2                                                                                    | Tomato                    | Leaf curl, Late blight, wilting Low yield and Low storability                                                               | ICM                           |
| 2      | Madhugiri                                     | Doddere                                       | K P Halli                                                                       | 2                                                                                    | Onion                     | Non availability of Rabi varieties, Poor storability                                                                        | New varieties                 |
| 3      | Sira,<br>Koratagere<br>Madhugiri              | Bukkapattana<br>Kolala<br>Doddere             | Kumabarahalli<br>Tanaganahalli<br>Rangapura                                     | 2<br>3<br>2                                                                          | Foxtail millet            | Use of Local varieties, Lack of Knowledge on High yielding varieties and lack of knowledge on processing and value addition | New varieties, Value addition |
| 4.     | Koratagere                                    | Kolala                                        | Vaddarahalli                                                                    | 2                                                                                    | Musatard                  | Lack of suitable oilseed crop during Rabi season                                                                            | New varieties                 |
| 5.     | Pavagada                                      | Arasikere<br>Venkatapura                      | Kothur<br>Venkatapura                                                           | 1<br>2                                                                               | Tuberose                  | Small size flowers, less shelf life & low yield                                                                             | New Variety                   |
| 6.     | Tumakuru<br>Koratagere                        | Urdigere<br>Kolala                            | Chikkadoddavadi,<br>Tanaganahalli                                               | 3                                                                                    | Arecanut                  | Mono-cropping, Low soil fertility, <i>AnabeRoga</i> , Nut splitting, Low income                                             | Nutrient Management           |
| 7      | Koratagere<br>Madhugiri<br>Pavagada           | Kolala<br>Doddere<br>Pavagada                 | Tanaganahalli<br>Rangapura<br>Pavagada                                          | 2<br>2<br>2                                                                          | French bean               | Mosaic disease, Rust, local varieties low yield                                                                             | ICM                           |
| 8.     | Sira<br>,Madhugiri<br>Koratagere              | Bukkapattana<br>Doddere<br>Kolala             | Kumabarahalli<br>Rangapura<br>Tanaganahalli                                     | 2<br>2<br>2                                                                          | Nutrition garden          | Lack of knowledge on nutrition garden and nutrition insecurity                                                              | Food and Nutrition Security   |
| 9.     | Sira<br>,Koratagere<br>Madhugiri,<br>Tumakuru | Bukkapattana<br>Kolala<br>Doddere<br>Urdigere | Kumabarahalli<br>Chikkadoddavadi<br>Tanaganahalli<br>Rangapura<br>Kodigenahalli | 2                                                                                    | Ragi                      | Low yield, Less acceptability of value added products from existing varieties due to brown colour                           | ICM & Value addition          |

|     |                                             |                                                  |                                                            |                  |                     |                                                                                                                  |                             |
|-----|---------------------------------------------|--------------------------------------------------|------------------------------------------------------------|------------------|---------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 10. | Sira<br>Koratagere<br>Madhugiri<br>Pavagada | Bukkapattana<br>Kolala<br>Doddere<br>Venkatapura | Kumabarahalli<br>D Nagenahalli<br>Rangapura<br>Venkatapura | 2<br>2<br>2<br>2 | Chilli              | Low yield, Local varieties<br>, Imbalanced nutrition,<br>Disease incidence –<br>Mosaic virus susceptible         | ICM                         |
| 11. | Tumakuru                                    | Kolala                                           | Chikkdoddawadi<br>Halugondahalli                           | 2                | Bhendi              | Low yield , severe yellow<br>vein mosaic                                                                         | IPDM                        |
| 12. | Sira<br>Pavagada                            | Bukkapattana<br>Venkatapura                      | Kumabarahalli<br>venkatapura                               | 2                | Pomegranate         | Bacterial blight, leaf spot<br>disease, sucking pest<br>problem                                                  | ICM                         |
| 13. | Koratagere<br>Madhugiri<br>Tumakuru         | Kolala<br>Doddere                                | Anupanahalli<br>Rangapura<br>Kodigenahalli                 | 2<br>2<br>2      | Paddy               | Water stress, Neck blast,<br>nutrient deficiency, weeds,<br>Non awareness about<br>aerobic paddy, Rat<br>menace, | ICM                         |
| 14. | Koratagere<br>Tumakuru<br>Madhugiri         | Kolala<br>Urdigere<br>Dodderi                    | Tanaganahalli<br>Kodigenahalli<br>Shivanagere              | 2<br>2           | Fodder              | Non availability of suitable<br>fodder crop for higher<br>yield                                                  | New Varieties               |
| 15. | Sira                                        | Dodderi                                          | Rangapura                                                  | 2                | Tamarind            | Lack of knowledge on<br>processing and value<br>addition, low income                                             | PHT                         |
| 16. | Sira,<br>Koratagere<br>Madhugiri            | Bukkapattana<br>Kolala<br>Dodderi                | Kumabarahalli<br>Tanaganahalli<br>Rangapura                | 2<br>3<br>2      | Brown Top<br>Millet | lack of knowledge on<br>processing and value<br>addition                                                         | Processing & Value addition |

## 2.8 Details of Benchmark Information collected from DFI villages

| Sl.No. | Taluk    | Name of the block | Name of the village | Name of the Head of Household              | Annual Gross Income (Rs.) | Annual Expenditure (Rs.) | Annual Net Income (Rs.) |
|--------|----------|-------------------|---------------------|--------------------------------------------|---------------------------|--------------------------|-------------------------|
| 1.     | Pavagada | Kasaba            | Madavarayanapalya   | Ramakrishnappa S/o<br>Obalanasimhappa      | 100000                    | 55000                    | 45000                   |
| 2.     | Pavagada | Kasaba            | Madavarayanapalya   | Nanjappa S/o<br>Muttalappa                 | 65780                     | 26841                    | 38939                   |
| 3.     | Pavagada | Kasaba            | Madavarayanapalya   | Narasimhappa S/o<br>Channappa              | 24000                     | 6000                     | 18000                   |
| 4.     | Pavagada | Kasaba            | Madavarayanapalya   | Nagarajappa S/o<br>Nagabasappa             | 15687                     | 26789                    | -11102                  |
| 5.     | Pavagada | Kasaba            | Madavarayanapalya   | Yashodamma D/o<br>Ashwathappa              | 18974                     | 17500                    | 1474                    |
| 6.     | Pavagada | Kasaba            | Madavarayanapalya   | Krishnappa S/o Nanjappa                    | 25000                     | 27000                    | -2000                   |
| 7.     | Pavagada | Kasaba            | Neralekunte         | Srinivasreddy S/o<br>Hanumanthareddy       | 200000                    | 160000                   | 40000                   |
| 8.     | Pavagada | Kasaba            | Madavarayanapalya   | Shankarreddy S/o<br>Bhavareddy             | 75000                     | 15000                    | 60000                   |
| 9.     | Pavagada | Kasaba            | Madavarayanapalya   | Anjinappa.S/o Late<br>Appannappa           | 33600                     | 27000                    | 6600                    |
| 10.    | Pavagada | Kasaba            | Madavarayanapalya   | Chandrappa S/o<br>Narayanappa              | 23000                     | 6000                     | 17000                   |
| 11.    | Pavagada | Kasaba            | Madavarayanapalya   | Ramachandrappa S/o<br>Narasimhappa         | 19500                     | 16700                    | 2800                    |
| 12.    | Pavagada | Kasaba            | Madavarayanapalya   | Ramaswamy.S/o Adavappa                     | 23600                     | 21000                    | 2600                    |
| 13.    | Pavagada | Kasaba            | Madavarayanapalya   | Venkatarama S/o<br>Ramareddy               | 36000                     | 6000                     | 30000                   |
| 14.    | Pavagada | Kasaba            | Madavarayanapalya   | EguventiNarayanappa So<br>EguventiNanjappa | 32000                     | 17800                    | 14200                   |
| 15.    | Pavagada | Kasaba            | Madavarayanapalya   | Subbayappa.S/oNanjappa                     | 36000                     | 10000                    | 26000                   |

|     |          |        |                   |                                  |        |       |        |
|-----|----------|--------|-------------------|----------------------------------|--------|-------|--------|
| 16. | Pavagada | Kasaba | Madavarayanapalya | Ashwathappa S/o Narasimhappa     | 23000  | 18000 | 5000   |
| 17. | Pavagada | Kasaba | Madavarayanapalya | Anjinappa S/o Narayanappa        | 26500  | 19400 | 7100   |
| 18. | Pavagada | Kasaba | Madavarayanapalya | Ganamma S/o Marappa              | 12000  | 1000  | 11000  |
| 19. | Pavagada | Kasaba | Madavarayanapalya | Hanumatharayappa S/o Adivappa    | 24000  | 5000  | 19000  |
| 20. | Pavagada | Kasaba | Neralekunte       | Thimmaraju S/o Subappa           | 72000  | 58900 | 13100  |
| 21. | Pavagada | Kasaba | Madavarayanapalya | Govindareddy S/o Hanumanthareddy | 240000 | 20000 | 220000 |
| 22. | Pavagada | Kasaba | Madavarayanapalya | Narasimhappa S/o Madappa         | 14400  | 1800  | 12600  |
| 23. | Pavagada | Kasaba | Madavarayanapalya | Anjinappa S/o Nanjappa           | 16480  | 15300 | 1180   |
| 24. | Pavagada | Kasaba | Madavarayanapalya | Mangamma S/o Narasimhappa        | 45894  | 37964 | 7930   |
| 25. | Pavagada | Kasaba | Madavarayanapalya | Narsimha S/o Narasimhappa        | 18560  | 15700 | 2860   |
| 26. | Pavagada | Kasaba | Madavarayanapalya | Adinarayana S/o Chennappa        | 14400  | 3000  | 11400  |

| Sl.No. | Taluk     | Name of the block | Name of the village | Name of the Head of Household | Annual Gross Income (Rs.) | Annual Expenditure (Rs.) | Annual Net Income (Rs.) |
|--------|-----------|-------------------|---------------------|-------------------------------|---------------------------|--------------------------|-------------------------|
| 1      | Madhugiri | Dodderi           | Rangapura           | Ravi kumar                    | 68000                     | 32500                    | 35500                   |
| 2      | Madhugiri | Dodderi           | Rangapura           | Ramachandrappa                | 48000                     | 21600                    | 26400                   |
| 3      | Madhugiri | Dodderi           | Rangapura           | Hanumatarayappa               | 83500                     | 45600                    | 37900                   |
| 4      | Madhugiri | Dodderi           | Badavanahalli       | Ramesh                        | 38400                     | 25300                    | 13100                   |
| 5      | Madhugiri | Dodderi           | Rangapura           | Shankrappa                    | 58500                     | 32400                    | 26100                   |
| 6      | Madhugiri | Dodderi           | Rangapura           | Ragavendra                    | 98500                     | 66600                    | 31900                   |
| 7      | Madhugiri | Dodderi           | Rangapura           | Laxmiranganatha               | 175000                    | 109200                   | 65800                   |
| 8      | Madhugiri | Dodderi           | Rangapura           | Timmegowda                    | 37450                     | 21380                    | 16070                   |
| 9      | Madhugiri | Dodderi           | Rangapura           | Shivanna                      | 67550                     | 38740                    | 28810                   |
| 10     | Madhugiri | Dodderi           | Rangapura           | Chowdappa                     | 59780                     | 33740                    | 26040                   |
| 11     | Madhugiri | Dodderi           | Rangapura           | Ramanna                       | 88250                     | 42750                    | 45500                   |
| 12     | Madhugiri | Dodderi           | Rangapura           | RC Chowdegowda                | 92780                     | 60780                    | 32000                   |
| 13     | Madhugiri | Dodderi           | Rangapura           | Banvegowda                    | 235400                    | 128800                   | 106600                  |
| 14     | Madhugiri | Dodderi           | Rangapura           | Ravikumar                     | 37480                     | 22412                    | 15068                   |
| 15     | Madhugiri | Dodderi           | Rangapura           | Hanumakka                     | 87620                     | 46550                    | 41070                   |
| 16     | Madhugiri | Dodderi           | Rangapura           | Srinivasa                     | 36740                     | 18750                    | 17990                   |
| 17     | Madhugiri | Dodderi           | Rangapura           | Shivakumar B                  | 26780                     | 15880                    | 10900                   |
| 18     | Madhugiri | Dodderi           | Rangapura           | Ramesh D                      | 79500                     | 48750                    | 30750                   |
| 19     | Madhugiri | Dodderi           | Rangapura           | Manjunath N                   | 65300                     | 40900                    | 24400                   |
| 20     | Madhugiri | Dodderi           | Rangapura           | Jayaramaiah                   | 177800                    | 114500                   | 63300                   |
| 21     | Madhugiri | Dodderi           | Rangapura           | Ranganatha                    | 145800                    | 98070                    | 47730                   |
| 22     | Madhugiri | Dodderi           | Rangapura           | Nagaraju                      | 147700                    | 98700                    | 49000                   |
| 23     | Madhugiri | Dodderi           | Rangapura           | Laxamma D                     | 151800                    | 126000                   | 25800                   |
| 24     | Madhugiri | Dodderi           | Rangapura           | Lokesh                        | 85740                     | 45780                    | 39960                   |
| 25     | Madhugiri | Dodderi           | Rangapura           | Obalanarashimaiah             | 88740                     | 47850                    | 40890                   |
| 26     | Madhugiri | Dodderi           | Rangapura           | Doddanna                      | 145250                    | 98740                    | 46510                   |
| 27     | Madhugiri | Dodderi           | Rangapura           | Siddappa                      | 84650                     | 52740                    | 31910                   |
| 28     | Madhugiri | Dodderi           | Rangapura           | Shivaramaiah                  | 112740                    | 76250                    | 36490                   |
| 29     | Madhugiri | Dodderi           | Rangapura           | Chikkaranganayaka             | 78650                     | 47230                    | 31420                   |
| 30     | Madhugiri | Dodderi           | Rangapura           | Kempasiddappa                 | 72400                     | 42700                    | 29700                   |
| 31     | Madhugiri | Dodderi           | Rangapura           | B R Devaraju                  | 75000                     | 45780                    | 29220                   |
| 32     | Madhugiri | Dodderi           | Rangapura           | K K Suresh                    | 68500                     | 38450                    | 30050                   |

| Sl.No. | Taluk      | Name of the block | Name of the village | Name of the Head of Household | Annual Gross Income (Rs.) | Annual Expenditure (Rs.) | Annual Net Income (Rs.) |
|--------|------------|-------------------|---------------------|-------------------------------|---------------------------|--------------------------|-------------------------|
| 1      | Koratagere | Koratagere        | Tanganahalli        | Subramanya                    | 456,700                   | 342,500                  | 114,200                 |
| 2      | Koratagere | Koratagere        | Tanganahalli        | Narasaraju.R                  | 398600                    | 280500                   | 118100                  |
| 3      | Koratagere | Koratagere        | Tanganahalli        | Puttaraju                     | 140300                    | 84500                    | 55800                   |
| 4      | Koratagere | Koratagere        | Tanganahalli        | Seenappa                      | 171500                    | 97000                    | 74500                   |
| 5      | Koratagere | Koratagere        | Tanganahalli        | Shivalingaiiah                | 613000                    | 434000                   | 179000                  |
| 6      | Koratagere | Koratagere        | Tanganahalli        | Sudhakar                      | 109600                    | 84500                    | 25100                   |
| 7      | Koratagere | Koratagere        | Tanganahalli        | Jayanna                       | 72800                     | 48000                    | 24800                   |
| 8      | Koratagere | Koratagere        | Tanganahalli        | Shivakumar.S                  | 60000                     | 45200                    | 14800                   |
| 9      | Koratagere | Koratagere        | Tanganahalli        | Nagaraju.S                    | 45000                     | 35000                    | 10000                   |
| 10     | Koratagere | Koratagere        | Tanganahalli        | Anjanamrthy                   | 25,600                    | 24,500                   | 1100                    |
| 11     | Koratagere | Koratagere        | Tanganahalli        | Gangadharaiah                 | 72000                     | 40000                    | 32000                   |
| 12     | Koratagere | Koratagere        | Tanganahalli        | Umesh                         | 247200                    | 175700                   | 71500                   |
| 13     | Koratagere | Koratagere        | Tanganahalli        | Shivakumar.H                  | 75500                     | 56000                    | 19500                   |
| 14     | Koratagere | Koratagere        | Tanganahalli        | Dasanna                       | 115000                    | 88500                    | 26500                   |
| 15     | Koratagere | Koratagere        | Tanganahalli        | Ramanna                       | 21800                     | 20000                    | 1800                    |
| 16     | Koratagere | Koratagere        | Tanganahalli        | Ramachandrappa                | 46300                     | 33000                    | 13300                   |
| 17     | Koratagere | Koratagere        | Tanganahalli        | Naras aiah                    | 94000                     | 77500                    | 16500                   |
| 18     | Koratagere | Koratagere        | Tanganahalli        | Lakshmanappa                  | 584000                    | 386000                   | 19800                   |
| 19     | Koratagere | Koratagere        | Tanganahalli        | Kadarappa                     | 58500                     | 45500                    | 13000                   |
| 20     | Koratagere | Koratagere        | Tanganahalli        | Eramma                        | 45,300                    | 28,100                   | 17,200                  |
| 21     | Koratagere | Koratagere        | Tanganahalli        | Mukundachar                   | 25,800                    | 21,700                   | 4,100                   |
| 22     | Koratagere | Koratagere        | Tanganahalli        | Naras aiah.S                  | 43,900                    | 27,200                   | 16,700                  |
| 23     | Koratagere | Koratagere        | Tanganahalli        | Shrirangappa                  | 112,400                   | 59,600                   | 52,800                  |
| 24     | Koratagere | Koratagere        | Tanganahalli        | Narayanappa.T.R               | 56,100                    | 38,500                   | 17,600                  |
| 25     | Koratagere | Koratagere        | Tanganahalli        | Shrinivas murthy              | 52,300                    | 36,800                   | 15,500                  |
| 26     | Koratagere | Koratagere        | Tanganahalli        | Rangappa                      | 109,700                   | 65,400                   | 44,300                  |
| 27     | Koratagere | Koratagere        | Tanganahalli        | Chennarayappa                 | 80,600                    | 49,300                   | 31,300                  |
| 28     | Koratagere | Koratagere        | Tanganahalli        | Narayanappa.T.S               | 47,500                    | 31,200                   | 16,300                  |
| 29     | Koratagere | Koratagere        | Tanganahalli        | Nagaraju.V                    | 24,300                    | 24,300                   | 0                       |
| 30     | Koratagere | Koratagere        | Tanganahalli        | Nagaraju.H                    | 23,500                    | 23,000                   | 500                     |
| 31     | Koratagere | Koratagere        | Tanganahalli        | Ramesh. N                     | 22,500                    | 2100                     | 500                     |
| 32     | Koratagere | Koratagere        | Tanganahalli        | Rajashekhhar.K                | 118,900                   | 79,400                   | 39,500                  |
| 33     | Koratagere | Koratagere        | Tanganahalli        | Ramahanumaiah.H               | 29,100                    | 20,200                   | 8,900                   |
| 34     | Koratagere | Koratagere        | Tanganahalli        | Naras imharaju.D              | 48,650                    | 32,900                   | 15,750                  |
| 35     | Koratagere | Koratagere        | Tanganahalli        | Jagadish.N                    | 23,700                    | 22,400                   | 1300                    |
| 36     | Koratagere | Koratagere        | Tanganahalli        | Timmaiah.C                    | 45,600                    | 33,100                   | 12,500                  |
| 37     | Koratagere | Koratagere        | Tanganahalli        | Lakshmirangaiah               | 80,300                    | 58,200                   | 22,100                  |
| 38     | Koratagere | Koratagere        | Tanganahalli        | Venkataramiah                 | 54,200                    | 31,400                   | 22,800                  |
| 39     | Koratagere | Koratagere        | Tanganahalli        | Timmarangiah.C                | 72,800                    | 49,100                   | 23,700                  |
| 40     | Koratagere | Koratagere        | Tanganahalli        | Rangas amiah.C                | 85,700                    | 58,500                   | 27,200                  |
| 41     | Koratagere | Koratagere        | Tanganahalli        | Ramas amiah                   | 69,300                    | 53,400                   | 15,900                  |
| 42     | Koratagere | Koratagere        | Tanganahalli        | Chandranna                    | 48,100                    | 31,200                   | 16,900                  |
| 43     | Koratagere | Koratagere        | Tanganahalli        | Ranganath                     | 35,300                    | 22,100                   | 13,200                  |

|    |            |            |              |                  |        |        |        |
|----|------------|------------|--------------|------------------|--------|--------|--------|
| 44 | Koratagere | Koratagere | Tanganahalli | Krishnappa.M     | 89,500 | 65,900 | 23,600 |
| 45 | Koratagere | Koratagere | Tanganahalli | Ramashankaraiah  | 20,600 | 18,700 | 1,900  |
| 46 | Koratagere | Koratagere | Tanganahalli | Jayaramachar     | 83,500 | 57,600 | 25,900 |
| 47 | Koratagere | Koratagere | Tanganahalli | Siddaraju        | 34,200 | 26,100 | 8,100  |
| 48 | Koratagere | Koratagere | Tanganahalli | Basavaraju       | 57,700 | 32,800 | 24,900 |
| 49 | Koratagere | Koratagere | Tanganahalli | Timmaranagaiah.R | 47,300 | 29,200 | 18,100 |
| 50 | Koratagere | Koratagere | Tanganahalli | Mutturayappa     | 29,000 | 22,000 | 7,000  |

| Sl.No. | Taluk | Name of the block | Name of the village | Name of the Head of Household | Annual Gross Income (Rs.) | Annual Expenditure (Rs.) | Annual Net Income (Rs.) |
|--------|-------|-------------------|---------------------|-------------------------------|---------------------------|--------------------------|-------------------------|
| 1      | Sira  | Bukkapattana      | Kumbarahalli        | Gangadhara                    | 87,300                    | 54,700                   | 32,600                  |
| 2      | Sira  | Bukkapattana      | Kumbarahalli        | Rajanna                       | 84,000                    | 58,000                   | 26,000                  |
| 3      | Sira  | Bukkapattana      | Kumbarahalli        | Laksmikanthayya               | 81,000                    | 55,000                   | 26,000                  |
| 4      | Sira  | Bukkapattana      | Kumbarahalli        | Julamarappa                   | 70,000                    | 48,000                   | 22,000                  |
| 5      | Sira  | Bukkapattana      | Kumbarahalli        | Ningaraju                     | 55,000                    | 34,000                   | 21,000                  |
| 6      | Sira  | Bukkapattana      | Kumbarahalli        | Puttaraju                     | 74,000                    | 48,600                   | 25,400                  |
| 7      | Sira  | Bukkapattana      | Kumbarahalli        | Nagaraju                      | 63,000                    | 28,000                   | 35,000                  |
| 8      | Sira  | Bukkapattana      | Kumbarahalli        | Patayya                       | 58,000                    | 32,500                   | 25,500                  |
| 9      | Sira  | Bukkapattana      | Kumbarahalli        | Nagaraju,K.P                  | 45,000                    | 36,000                   | 11,000                  |
| 10     | Sira  | Bukkapattana      | Kumbarahalli        | Chikkanna                     | 48,000                    | 35,500                   | 12,500                  |
| 11     | Sira  | Bukkapattana      | Kumbarahalli        | Siddaraju                     | 60,000                    | 43,000                   | 17,000                  |
| 12     | Sira  | Bukkapattana      | Kumbarahalli        | Yogananda                     | 78,000                    | 49,600                   | 28,400                  |
| 13     | Sira  | Bukkapattana      | Kumbarahalli        | Ranganathappa                 | 33,000                    | 18,500                   | 14,500                  |
| 14     | Sira  | Bukkapattana      | Kumbarahalli        | Naranappa                     | 76,400                    | 49,700                   | 26,700                  |
| 15     | Sira  | Bukkapattana      | Kumbarahalli        | Patalingayya                  | 92,000                    | 51,200                   | 40,800                  |
| 16     | Sira  | Bukkapattana      | Kumbarahalli        | Lakshmiranganath              | 59,000                    | 27,000                   | 32,000                  |
| 17     | Sira  | Bukkapattana      | Kumbarahalli        | Kumar                         | 75,000                    | 38,600                   | 36,400                  |
| 18     | Sira  | Bukkapattana      | Kumbarahalli        | Govindappa                    | 48,000                    | 29,000                   | 19,000                  |
| 19     | Sira  | Bukkapattana      | Kumbarahalli        | Chikkayya                     | 45,000                    | 35,000                   | 10,000                  |
| 20     | Sira  | Bukkapattana      | Kumbarahalli        | Shantharaju                   | 49,000                    | 33,000                   | 16,000                  |
| 21     | Sira  | Bukkapattana      | Kumbarahalli        | Kumara K                      | 35,000                    | 24,000                   | 11,000                  |
| 22     | Sira  | Bukkapattana      | Kumbarahalli        | Chikkapatayya                 | 42,000                    | 28,000                   | 14,000                  |
| 23     | Sira  | Bukkapattana      | Kumbarahalli        | Bhupalayya                    | 64,000                    | 39,500                   | 24,500                  |
| 24     | Sira  | Bukkapattana      | Kumbarahalli        | Marappa.K.P                   | 75,000                    | 47,500                   | 27,500                  |
| 25     | Sira  | Bukkapattana      | Kumbarahalli        | Chikkanarashivvayya           | 81,000                    | 63,500                   | 17,500                  |
| 26     | Sira  | Bukkapattana      | Kumbarahalli        | Hattimarappa                  | 72,000                    | 48,000                   | 22,000                  |
| 27     | Sira  | Bukkapattana      | Kumbarahalli        | Kariyappa                     | 53,000                    | 38,000                   | 15,000                  |
| 28     | Sira  | Bukkapattana      | Kumbarahalli        | Devaraju                      | 124,000                   | 83,400                   | 40,600                  |
| 29     | Sira  | Bukkapattana      | Kumbarahalli        | Hanumayya                     | 35,000                    | 21,000                   | 14,000                  |
| 30     | Sira  | Bukkapattana      | Kumbarahalli        | Vasudeva                      | 90,000                    | 61,000                   | 29,000                  |

| Sl.No. | Taluk    | Name of the block | Name of the village | Name of the Head of Household                | Annual Gross Income (Rs.) | Annual Expenditure (Rs.) | Annual Net Income (Rs.) |
|--------|----------|-------------------|---------------------|----------------------------------------------|---------------------------|--------------------------|-------------------------|
| 1.     | Tumakuru | Tumakuru          | Kodigehalli         | K.C.Laxman<br>S/o K.R.Chikkarangaiah         | 1,10,000                  | 55,000                   | 55,000                  |
| 2.     | Tumakuru | Tumakuru          | Kodigehalli         | Thimmaiah<br>S/o Late Chikkathimmaiah        | 60,000                    | 32,500                   | 27,500                  |
| 3.     | Tumakuru | Tumakuru          | Kodigehalli         | Srinivasaiah K<br>s/o Late Kariyappa         | 75,000                    | 15,000                   | 60,000                  |
| 4.     | Tumakuru | Tumakuru          | Kodigehalli         | Veerabhadraiah<br>S/o Late Rudraiah          | 33,600                    | 27,000                   | 6,600                   |
| 5.     | Tumakuru | Tumakuru          | Kodigehalli         | Narayanappa<br>S/o Late Govindaiah           | 23,000                    | 6,000                    | 17,000                  |
| 6.     | Tumakuru | Tumakuru          | Kodigehalli         | Krishnappa G.<br>S/o Late Govindaiah         | 19,500                    | 16,700                   | 2,800                   |
| 7.     | Tumakuru | Tumakuru          | Kodigehalli         | Krishnamurthy<br>S/O Chikkathimmaiah         | 23,600                    | 21,000                   | 2,600                   |
| 8.     | Tumakuru | Tumakuru          | Kodigehalli         | K. Narayan<br>S/o Late Chikkarangaiah        | 75,000                    | 15,000                   | 60,000                  |
| 9.     | Tumakuru | Tumakuru          | Kodigehalli         | Kemparaju KR<br>S/o Rangaswamy KC            | 33,600                    | 27,000                   | 6,600                   |
| 10.    | Tumakuru | Tumakuru          | Kodigehalli         | Rajashkeraiah<br>S/o Venkataswamaiah         | 23,000                    | 6,000                    | 17,000                  |
| 11.    | Tumakuru | Tumakuru          | Kodigehalli         | Ganganna<br>S/o K T Thimmaiah                | 23,000                    | 18,000                   | 5,000                   |
| 12.    | Tumakuru | Tumakuru          | Kodigehalli         | Jagadish KS                                  | 26,500                    | 19,400                   | 7,100                   |
| 13.    | Tumakuru | Tumakuru          | Kodigehalli         | Rangaiah<br>S/o Late Rangaiah                | 12,000                    | 1,000                    | 11,000                  |
| 14.    | Tumakuru | Tumakuru          | Kodigehalli         | Puttaswamaiah<br>S/o Venkataswamaiah         | 24,000                    | 5,000                    | 19,000                  |
| 15.    | Tumakuru | Tumakuru          | Kodigehalli         | Rangaswamaiah<br>S/o Siddaiah                | 20,600                    | 18,700                   | 1,900                   |
| 16.    | Tumakuru | Tumakuru          | Kodigehalli         | Bhanuprakash K S<br>S/o Late Shivanarangaiah | 83,500                    | 57,600                   | 25,900                  |
| 17.    | Tumakuru | Tumakuru          | Kodigehalli         | Rangaswamaiah<br>S/o Late Rangaiah           | 34,200                    | 26,100                   | 8,100                   |
| 18.    | Tumakuru | Tumakuru          | Kodigehalli         | Harish K R<br>S/o Rangaiah                   | 57,700                    | 32,800                   | 24,900                  |
| 19.    | Tumakuru | Tumakuru          | Kodigehalli         | Krishnappa D                                 | 47,300                    | 29,200                   | 18,100                  |
| 20.    | Tumakuru | Tumakuru          | Kodigehalli         | Rajashkeraiah                                | 20,600                    | 18,700                   | 1,900                   |

## 2.10 Priority thrust areas

| S. No | Thrust area                                              |
|-------|----------------------------------------------------------|
| 1.    | High Yielding varieties / Hybrids                        |
| 2.    | Seed treatment with Bio fertilizers and fungicides       |
| 3.    | Soil test based fertilizer application                   |
| 4.    | Integrated Cropping Management                           |
| 5.    | Integrated Nutrient Management                           |
| 6.    | Integrated Pest & Disease Management                     |
| 7.    | Intercropping / Mixed / Multistoried cropping system     |
| 8.    | Seed Production Techniques in Vegetables and field crops |
| 9.    | Post harvest technology in Vegetables and Fruits         |
| 10.   | Soil and Water Conservation                              |
| 11.   | Drudgery Reduction among women                           |
| 12.   | Income Generating Activities and Value Addition          |
| 13.   | Child and Women Care and balanced nutrition              |

**PART III - TECHNICAL ACHIEVEMENTS (2020)**

**3.A. Target and Achievements of mandatory activities**

| OFT        |             |               |             | FLD        |             |               |             |
|------------|-------------|---------------|-------------|------------|-------------|---------------|-------------|
| 1          |             |               |             | 2          |             |               |             |
| OFTs (No.) |             | Farmers (No.) |             | FLDs (No.) |             | Farmers (No.) |             |
| Target     | Achievement | Target        | Achievement | Target     | Achievement | Target        | Achievement |
| 4          | 4           | 15            | 15          | 14         | 14          | 108           | 108         |
|            |             |               |             |            |             |               |             |
|            |             |               |             |            |             |               |             |

| Training      |             |                    |             | Extension Programmes |             |                    |             |
|---------------|-------------|--------------------|-------------|----------------------|-------------|--------------------|-------------|
| 3             |             |                    |             | 4                    |             |                    |             |
| Courses (No.) |             | Participants (No.) |             | Programmes (No.)     |             | Participants (No.) |             |
| Target        | Achievement | Target             | Achievement | Target               | Achievement | Target             | Achievement |
| 30            | 35          | 1000               | 1009        | 292                  | 2670        | 9600               | 6922        |
|               |             |                    |             |                      |             |                    |             |
|               |             |                    |             |                      |             |                    |             |

| Seed Production (Q)  |             |  | Planting material (Nos.) |             |
|----------------------|-------------|--|--------------------------|-------------|
| 5                    |             |  | 6                        |             |
| Target               | Achievement |  | Target                   | Achievement |
| 8.00                 | 8.52        |  | 0.28 lakhs               | 0.52 lakhs  |
|                      |             |  |                          |             |
| Mushroom Spawn - 5.0 | 13.68       |  |                          |             |

| Livestock, poultry strains and fingerlings (No.) |             |  | Bio-products (Kg)                        |             |
|--------------------------------------------------|-------------|--|------------------------------------------|-------------|
| 7                                                |             |  | 8                                        |             |
| Target                                           | Achievement |  | Target                                   | Achievement |
|                                                  |             |  | AMC powder -2000                         | 3199        |
|                                                  |             |  | AMC Liquid( Litre)-2000                  | 4200        |
| <b>Others</b>                                    |             |  | Neem Soap- 3000                          | 3729        |
| Amla Candy - 100 Kg.                             | 62 Kg.      |  | Pongamia Soap-1000                       | 1408        |
| Amla Squash - 500 Ltrs.                          | 306 Ltrs.   |  | Pheromone traps and lures<br>Nos. - 5000 | 10586       |
| Ragi Malt - 100 Kg.                              | 62 Kg.      |  | Arka Borer Controller- 1000              | 418         |
| Micronutrient - 140 q                            | 237.62 q    |  |                                          |             |
|                                                  |             |  |                                          |             |
|                                                  |             |  |                                          |             |
|                                                  |             |  |                                          |             |

## 3.B1. Abstract of interventions undertaken

| S. No | Thrust area         | Crop/ Enterprise | Identified Problem                                                                                             | Interventions                                             |                                                               |                              |                              |                                          |                            |                        |                                    |                           |                        |          |       |
|-------|---------------------|------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------|------------------------------|------------------------------|------------------------------------------|----------------------------|------------------------|------------------------------------|---------------------------|------------------------|----------|-------|
|       |                     |                  |                                                                                                                | Title of OFT if any                                       | Title of FLD if any                                           | Number of Training (farmers) | Number of Trainings (Youths) | Number of Training (extension personnel) | Extension activities (No.) | Supply of seeds (Qtl.) | Supply of planting materials (No.) | Supply of livestock (No.) | Supply of bio products |          |       |
|       |                     |                  |                                                                                                                |                                                           |                                                               |                              |                              |                                          |                            |                        |                                    |                           |                        | No.      | Kg    |
| 01    |                     | Tomato           | Leaf curl, Late blight, wilting Low yield and Low storability                                                  |                                                           | Integrated crop Management in Tomato Arka Abedh IPDM Measures | 0                            | 0                            | 0                                        | 0                          | 0.005                  | -                                  | -                         | -                      | 03       | 95    |
| 02    | Organic farming     | Composting       | Delay and ineffective decomposing process in traditional methods                                               | Assessment of decomposing cultures in compost preparation | -                                                             | -                            | -                            | -                                        | 02                         | -                      | -                                  | -                         | -                      | 50 ml    | 2 kgs |
| 03    | Variety Evaluation  | Mustard          | Lack of suitable oilseed crop during Rabi season, high pungency                                                | Assessment of Mustard varieties as oil seed crops         | -                                                             | 0                            | 0                            | 0                                        | 05                         | 0.08                   | 0                                  | 0                         | 0                      | 0        | 0     |
| 04    | Varietal evaluation | Groundnut        | Severe drought situation                                                                                       | Assessment of Drought tolerant varieties in Groundnut     |                                                               | 0                            | 0                            | 0                                        | 02                         | 3.6                    | --                                 | --                        | 01                     | 250      |       |
| 05    | Variety Evaluation  | Onion            | Non availability of Rabi variety, Poor storability and low yield                                               | Assessment of onion varieties for rabi                    | -                                                             | 0                            | 0                            | 0                                        | 06                         | 0.09                   | 0                                  | 0                         | 0                      | 0        | 0     |
| 06.   | Organic Farming     | French Bean      | Poor soil health and low soil fertility                                                                        | -                                                         | Demonstration of organic farming practices in French bean     | 3                            | 0                            | 0                                        | 05                         | 0.5                    | 0                                  | 0                         | 1                      | 10 lits  |       |
| 07    | ICM                 | Chilli           | Low yield, Local varieties, Imbalanced nutrition, Disease incidence – Mosaic virus susceptible                 | -                                                         | ICM in Chilli                                                 | 1                            | 0                            | 0                                        | 08                         | 0.0015                 | 0                                  | 0                         | 1                      | 5 litres |       |
| 08    | ICM                 | French Bean      | Low yield, Use of local varieties, Non use of disease resistance varieties, Improper Nutrient Management       | -                                                         | ICM in French Bean                                            | 1                            | 1                            | 0                                        | 06                         | 0.40                   | 0                                  | 0                         | 0                      | 30 kg    |       |
| 09    | HYV                 | Tuberose         | Small size flowers, Less shelf life (days) Low yield                                                           | -                                                         | Demonstration of Tube rose variety ArkaPrajwal                | 0                            | 0                            | 0                                        | 05                         | 3.0                    | 0                                  | 0                         | 1                      | 300 kg   |       |
| 10    | ICM                 | Areca nut        | Mono-cropping, low nutrient status and low yield, button shedding, mites, stem bleeding, Ganoderma wilt, Pests | -                                                         | ICM in Areca nut                                              | 1                            | 1                            | 0                                        | 06                         | 0.5                    | 0                                  | 0                         | 0                      | 250 kg   |       |



|    |                   |                  |                                                                                                                              |   |                                                                                                                                                               |    |   |   |    |       |   |   |                                    |       |
|----|-------------------|------------------|------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|----|-------|---|---|------------------------------------|-------|
| 11 | Fodder            | Fodder           | Non availability of improved fodder varieties                                                                                |   | CoFS 29                                                                                                                                                       | 0  | 0 | 0 | 01 | 0.005 | 0 | 0 | 0                                  | 0     |
| 12 | Organic farming   | Pomegranate      | Low nutrient use efficiency & soil fertility, Severe incidence of blight and wilt and lower yield                            |   | Demonstration of AMC Liquid and ArkaActino plus on Growth, Quality and Yield of Pomegranate                                                                   | 01 | 0 | 0 | 06 | 0     | 0 | 0 | 35 lit<br>8 Nos<br>Pheromone traps | 40 kg |
| 13 | Yield Enhancement | Ragi             | Erratic rainfall and delayed monsoon, low yield, low income                                                                  | - | Enhancement of Productivity of Finger millet by drought tolerant variety ML 365 Seeds -12.5kg /ha. FYM 10 t/ha. Zinc Sulphate - 12.5 kg /ha. Borax 10kg / ha. | 01 | 0 | 0 | 04 | 0.5   | 0 | 0 | 0                                  | 10 kg |
| 14 | Yield Enhancement | Paddy            | Water scarcity, Reduced the paddy area, Low income, High cost                                                                | - | Demonstration of water saving Aerobic Paddy Paustic-9 Seeds -7.5kg /ha. FYM 10 t/ha. Green manure - 5t/ha. RDF 100:50:50 kg NPK / ha.                         | 01 | 0 | 0 | 04 | 0.3   | 0 | 0 | 0                                  | 5 kg  |
| 15 | Value addition    | Ragi             | Less acceptability of value added products from existing varieties due to brown colour                                       | - | Demonstration of Finger millet Variety KMR 340 for Value Addition                                                                                             | 01 | 0 | 0 | 05 | 0.005 | 0 | 0 | 0                                  | 0     |
| 16 | Value addition    | Foxtail          | Reduction in area under minor millets due to lack of knowledge on nutritional value and non availability of processing units | - | Demonstration of Foxtail millet Variety DHFt 109-3 for Value Addition Seeds 10kg/ha. FYM 6.25 t/ha. RDF 40:40:0 NPK kg/ha.                                    | 01 | 0 | 0 | 05 | 0.005 | 0 | 0 | 0                                  | 0     |
| 17 | Value addition    | Brown top millet | Reduction in area under minor millets due to lack of knowledge on nutritional value and non availability of processing units | - | Demonstration of brown top millet for Value Addition Seeds 10kg/ha. FYM 6.25 t/ha. RDF 40:40:0 NPK kg/ha.                                                     | 01 | 0 | 0 | 05 | 0.005 | 0 | 0 | 0                                  | 0     |
| 18 | ICM               | Redgram          | Fusarium wilt, low yielding varieties                                                                                        | - | BRG-5 Seeds 12.5kg/ha. FYM 7.5 t/ha. RDF 25:50:25 NPK kg/ha. Sulphur 20 kg/ha. Zinc Sulphate 12.5kg/ha                                                        | 01 | 0 | 0 | 06 | 0.5   | 0 | 0 | 0                                  | 0     |

|    |        |               |                                                           |   |                                                                     |    |   |   |    |   |         |   |   |   |
|----|--------|---------------|-----------------------------------------------------------|---|---------------------------------------------------------------------|----|---|---|----|---|---------|---|---|---|
| 19 | Fodder | Marvel grass  | Non availability of suitable fodder crop for higher yield | - | Demonstration of Marvel Grass Perennial Fodder Dicanthium annulatum | 01 | 0 | 0 | 03 | - | 200 Nos | 0 | 0 | 0 |
| 20 | Fodder | Hybrid Napier | Non availability of suitable fodder crop for higher yield | - | Demonstration of Fodder Hybrid Napier                               | 01 | 0 | 0 | 02 | - | 200 Nos | 0 | 0 | 0 |

### 3.B2. Details of technology used during reporting period

| S.No | Title of Technology                                                                         | Source of technology                              | Crop/enterprise            | No.of programmes conducted |     |          |                  |
|------|---------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------|----------------------------|-----|----------|------------------|
|      |                                                                                             |                                                   |                            | OFT                        | FLD | Training | Others (Specify) |
| 1    | ICM in Tomato                                                                               | IIHR, Bengaluru                                   | Tomato                     | -                          | 1   | 0        | 0                |
| 2    | Demonstration of Tuberose variety ArkaPrajwal                                               | IIHR, Bengaluru                                   | Tuberose                   | -                          | 1   | 0        | 0                |
| 3    | Assessment of Different Compost cultures in composting of Areca husk                        | IIHR, Bengaluru<br>UAS, Dharwad<br>NCOF, Gaziabad | Decomposer                 | 1                          | 0   | 0        | 0                |
| 4    | Assessment of Mustard varieties as alternative oilseed crops                                | IARI, New Delhi                                   | Mustard                    | 1                          | 0   | 0        | 0                |
| 5    | Assessment of Drought tolerant varieties in Groundnut                                       | DOGR,Junagarh                                     | Groundnut                  | 1                          | 0   | 0        | 0                |
| 6    | Assessment of Onion varieties for Rabi                                                      | DOG, Pune<br>IIHR Bengaluru<br>NHRDF Nasik        | Onion                      | 1                          | 0   | 0        | 0                |
| 7    | Assessment of Onion varieties for Rabi                                                      | DOG, Pune<br>IIHR Bengaluru<br>NHRDF Nasik        | Onion                      | 1                          | 0   | 0        | 0                |
| 8    | Demonstration of Chilli Variety ArkaHarita                                                  | IIHR Bengaluru                                    | Chilli                     | -                          | 08  | 01       | 01 Field day     |
| 9    | Demonstration of in French Bean variety ArkaArjun                                           | IIHR Bengaluru                                    | French bean                | -                          | 05  | 01       | 0                |
| 10   | Integrated Crop Management in Arecanut                                                      | CPCRI Kasargod                                    | Arecanut                   | -                          | 05  | 01       | 0                |
| 11   | Demonstration of Finger millet Variety KMR 340 for Value Addition                           | UAS, Bengaluru                                    | Ragi KMR-340               | -                          | 10  | 01       | 0                |
| 12   | Demonstration of Fodder sorghum CoFS 29                                                     | TNAVUS, Namakkal                                  | CoFS 29                    | -                          | 05  | 0        | 0                |
| 13   | Demonstration of AMC liquid and ArkaActino Plus on growth, quality and yield of Pomegranate | IIHR Bengaluru                                    | Pomegranate                | -                          | 05  | 01       | 01               |
| 14   | Enhancement of Productivity of Finger millet by drought tolerant variety ML 365             | UAS, Bengaluru                                    | ML 365                     | -                          | 10  | 01       | 02               |
| 15   | Demonstration of water saving Aerobic Paddy Paustic-9 5                                     | UAS, Bengaluru                                    | Poustic 9                  | -                          | 05  | 01       | 0                |
| 16   | Demonstration of Foxtail millet Variety DHFt 109-3 for Value Addition                       | UAS Dharwad                                       | DHFT-109 -3 Foxtail millet | -                          | 10  | 0        | 0                |
| 17   | Demonstration of Brown Top Millet for Value Addition                                        | ITK                                               | Brown top millet           | -                          | 10  | 1        | 0                |
| 18   | Demonstration of Redgram variety BRG-5                                                      | UAS, Bengaluru                                    | BRG-5 Redgram              | -                          | 05  | 01       | 0                |
| 19   | Demonstration of Marvel Grass -Perennial Fodder Dicanthium annulatum                        | NIANP, Bengaluru                                  | Marvel grass               | -                          | 05  | 0        | 0                |
| 20   | Demonstration of Fodder - Hybrid Napier                                                     | NIANP, Bengaluru                                  | Hybrid Napier              | -                          | 05  | 0        | 0                |





|                      |  |  |  |  |  |  |  |  |  |
|----------------------|--|--|--|--|--|--|--|--|--|
| Mechanization        |  |  |  |  |  |  |  |  |  |
| Mushroom cultivation |  |  |  |  |  |  |  |  |  |
| Others               |  |  |  |  |  |  |  |  |  |
| <b>Total</b>         |  |  |  |  |  |  |  |  |  |

#### 4.A3. Abstract on the number of technologies assessed in respect of livestock - NIL

| Thematic areas                            | Cattle | Poultry | Piggery | Rabbit | Fisheries | TOTAL |
|-------------------------------------------|--------|---------|---------|--------|-----------|-------|
| Evaluation of Breeds                      |        |         |         |        |           |       |
| Nutrition Management                      |        |         |         |        |           |       |
| Disease of Management                     |        |         |         |        |           |       |
| Value Addition                            |        |         |         |        |           |       |
| Production and Management                 |        |         |         |        |           |       |
| Feed and Fodder                           |        |         |         |        |           |       |
| Small Scale income generating enterprises |        |         |         |        |           |       |
| Dairy                                     |        |         |         |        |           |       |
| Others (Pl. specify)                      |        |         |         |        |           |       |
| <b>TOTAL</b>                              |        |         |         |        |           |       |

#### 4.A4. Abstract on the number of technologies refined in respect of livestock - NIL

| Thematic areas                            | Cattle | Poultry | Piggery | Rabbit | Fisheries | TOTAL |
|-------------------------------------------|--------|---------|---------|--------|-----------|-------|
| Evaluation of Breeds                      |        |         |         |        |           |       |
| Nutrition Management                      |        |         |         |        |           |       |
| Disease of Management                     |        |         |         |        |           |       |
| Value Addition                            |        |         |         |        |           |       |
| Production and Management                 |        |         |         |        |           |       |
| Feed and Fodder                           |        |         |         |        |           |       |
| Small Scale income generating enterprises |        |         |         |        |           |       |
| Dairy                                     |        |         |         |        |           |       |
| Others (Pl. specify)                      |        |         |         |        |           |       |
| <b>TOTAL</b>                              |        |         |         |        |           |       |

### 4.B. Achievements on technologies Assessed and Refined

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

| Thematic areas                            | Crop      | Name of the technologies                              | No. of trials | Number of farmers / localities | Area in ha (Per trial covering all Technological Options in a farm) |
|-------------------------------------------|-----------|-------------------------------------------------------|---------------|--------------------------------|---------------------------------------------------------------------|
| Integrated Nutrient Management            |           |                                                       |               |                                |                                                                     |
| Varietal Evaluation                       | Onion     | Assessment of onion varieties for Rabi                | 3             | 3                              | 0.6                                                                 |
|                                           | Mustard   | Assessment of Mustard Varieties as Oilseeds crop      | 3             | 3                              | 0.6                                                                 |
|                                           | Groundnut | Evaluation of drought tolerant varieties of Groundnut | 3             | 3                              | 3.6                                                                 |
| Integrated Pest Management                |           |                                                       |               |                                |                                                                     |
| Integrated Crop Management                |           |                                                       |               |                                |                                                                     |
| Integrated Disease Management             |           |                                                       |               |                                |                                                                     |
| Small Scale Income Generation Enterprises |           |                                                       |               |                                |                                                                     |

|                                  |            |                                                           |    |    |     |
|----------------------------------|------------|-----------------------------------------------------------|----|----|-----|
| Weed Management                  |            |                                                           |    |    |     |
| Resource Conservation Technology | Areca Husk | Assessment of decomposing cultures in compost preparation | 03 | 03 | NA  |
| Farm Machineries                 |            |                                                           |    |    |     |
| Integrated Farming System        |            |                                                           |    |    |     |
| Seed / Plant production          |            |                                                           |    |    |     |
| Value addition                   |            |                                                           |    |    |     |
| Drudgery Reduction               |            |                                                           |    |    |     |
| Storage Technique                |            |                                                           |    |    |     |
| Mushroom cultivation             |            |                                                           |    |    |     |
| <b>Total</b>                     |            |                                                           | 15 | 15 | 8.4 |

#### 4.B.2. Technologies Refined under various Crops - NIL

| Thematic areas                            | Crop | Name of the technologies | No. of trials | Number of farmers/locations | Area in ha (Per trial covering all Technological Options in a farm) |
|-------------------------------------------|------|--------------------------|---------------|-----------------------------|---------------------------------------------------------------------|
| Integrated Nutrient Management            |      |                          |               |                             |                                                                     |
| Varietal Evaluation                       |      |                          |               |                             |                                                                     |
| Integrated Pest Management                |      |                          |               |                             |                                                                     |
| Integrated Crop Management                |      |                          |               |                             |                                                                     |
| Integrated Disease Management             |      |                          |               |                             |                                                                     |
| Small Scale Income Generation Enterprises |      |                          |               |                             |                                                                     |
| Weed Management                           |      |                          |               |                             |                                                                     |
| Resource Conservation Technology          |      |                          |               |                             |                                                                     |
| Farm Machineries                          |      |                          |               |                             |                                                                     |
| Integrated Farming System                 |      |                          |               |                             |                                                                     |
| Seed / Plant production                   |      |                          |               |                             |                                                                     |
| Value addition                            |      |                          |               |                             |                                                                     |
| Drudgery Reduction                        |      |                          |               |                             |                                                                     |

|                      |  |  |  |  |
|----------------------|--|--|--|--|
| Storage Technique    |  |  |  |  |
| Mushroom cultivation |  |  |  |  |
| <b>Total</b>         |  |  |  |  |

#### 4.B.3. Technologies assessed under Livestock - NIL

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

#### 4.B.4. Technologies Refined under Livestock and other enterprises - NIL

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

#### 4.B.5. Technologies assessed under various enterprises by KVKs

| Sl. | Thematic areas                   | Name of the enterprise | Name of technology(s) | No. of trials | No. of locations |
|-----|----------------------------------|------------------------|-----------------------|---------------|------------------|
| 1   | Drudgery reduction               |                        |                       |               |                  |
| 2   | Entrepreneurship Development     |                        |                       |               |                  |
| 3   | Health and nutrition             |                        |                       |               |                  |
| 4   | Processing and value addition    |                        |                       |               |                  |
| 5   | Energy conservation              |                        |                       |               |                  |
| 6   | Small-scale income generation    |                        |                       |               |                  |
| 7   | Storage techniques               |                        |                       |               |                  |
| 8   | Household food security          |                        |                       |               |                  |
| 9   | Organic farming                  |                        |                       |               |                  |
| 10  | Agroforestry management          |                        |                       |               |                  |
| 11  | Mechanization                    |                        |                       |               |                  |
| 12  | Resource conservation technology |                        |                       |               |                  |
| 13  | Value Addition                   |                        |                       |               |                  |
| 14  | Others                           |                        |                       |               |                  |

#### 4.B.6. Technologies assessed under various enterprises for women empowerment

|   | Thematic areas               | Name of enterprise | Name of technology(s) | No. of trials | No. of locations |
|---|------------------------------|--------------------|-----------------------|---------------|------------------|
| 1 | Drudgery Reduction           |                    |                       |               |                  |
| 2 | Entrepreneurship Development |                    |                       |               |                  |
| 3 | Health and Nutrition         |                    |                       |               |                  |
| 4 | Value Addition               |                    |                       |               |                  |
| 5 | Women Empowerment            |                    |                       |               |                  |
| 6 | Others(Home science)         |                    |                       |               |                  |
|   |                              |                    |                       |               |                  |

#### 4.C1. Results of Technologies Assessed

| Crop/ enterprise | Farming situation | Problem definition                                              | Title of OFT                                     | No. of trials | Technology Assessed | Source of technology | Yield | Unit of yield | Observations other than yield | Net Return Rs. / unit | BC Ratio | REMARKS                    |
|------------------|-------------------|-----------------------------------------------------------------|--------------------------------------------------|---------------|---------------------|----------------------|-------|---------------|-------------------------------|-----------------------|----------|----------------------------|
| 1                | 2                 | 3                                                               | 4                                                | 5             | 6                   | 7                    | 8     | 9             | 10                            | 11                    | 12       | 13                         |
| Mustard          | Irrigated         | Lack of suitable oilseed crop during Rabi season, high pungency | Assessment of Mustard Varieties as Oilseeds crop | 03            | TO1: PUSA 28        | IARI, New Delhi      | 9.70  | Qtls /ha      | Per cent oil content 38.17    | 77,600                | 3.15     | High yield & Less pungency |
|                  |                   |                                                                 |                                                  |               | TO2: PUSA 30        | IARI, New Delhi      | 11.50 | Qtls /ha      | Per cent oil content 38.84    | 92,000                | 3.73     | Less pungency              |
|                  |                   |                                                                 |                                                  |               | TO3: PUSA 31        | IARI, New Delhi      | 12.80 | Qtls /ha      | Per cent oil content 38.77    | 1,02,400              | 4.15     | Less pungency              |

#### 4. C1. Feedback on technologies assessed

| Name of technology assessed  | Useful characters as well as constraints of technology                                                                                                                                                                                                                     | Socio-economic as well as administrative constraints for its adoption |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Pusa 28, Pusa 30 and Pusa 31 | PUSA-28 is a short duration variety (115 days) suitable for erratic rainfall. Pusa 31 long duration variety and recorded higher yield with Less pungency. For high yield and less pungency, Pusa 31 variety is suitable. For erratic and low rainfall Pusa 28 is suitable. | Nil                                                                   |



#### 4.C1. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)

1. Title of Technology Assessed: Assessment of Mustard Varieties as Oilseeds crop
2. Performance of the Technology on specific indicators: Pusa 31 and Pusa 28 was found more profitable for Rabi season as compared to Check
3. Specific Feedback from farmers: Pusa 31 and Pusa 28 were found to be more profitable for Rabi season as compared to Ground nut. PUSA-28 is a short duration variety (115 days) suitable for erratic rainfall
4. Specific Feedback from Extension personnel and other stakeholders: Nil
5. Feedback to Research System based on results and feedback received: For high yield and less pungency, Pusa 31 variety is suitable. For erratic and low rainfall Pusa 28 is suitable

#### 4.C2. Results of Technologies Assessed

| Crop/ enterprise | Farming situation | Problem definition                                           | Title of OFT                           | No. of trials | Technology Assessed | Source of technology | Yield  | Unit of yield | Observations other than yield             | Gross Return Rs. / unit | Net Return Rs. / unit | BC Ratio (Gross income/ Gross Cost) |
|------------------|-------------------|--------------------------------------------------------------|----------------------------------------|---------------|---------------------|----------------------|--------|---------------|-------------------------------------------|-------------------------|-----------------------|-------------------------------------|
| 1                | 2                 | 3                                                            | 4                                      | 5             | 6                   | 7                    | 8      | 9             | 10                                        | 11                      | 12                    | 13                                  |
| Onion            | Irrigated         | Non availability of Rabi variety, Poor storability Low yield | Assessment of Onion varieties for Rabi | 03            | TO1: Arka Niketan   | IIHR, Bengaluru      | 226.26 | Qtls/ ha      | Purple blotch disease incidence (%) 12.36 | 1,12,645                | 2.73                  | Less Purple blotch incidence        |
|                  |                   |                                                              |                                        |               | TO2: Bhima Shakti   | DOG, Pune            | 213.11 | Qtls/ ha      | Purple blotch disease incidence (%) 17.45 | 1,03,703                | 2.51                  | High Purple blotch incidence        |
|                  |                   |                                                              |                                        |               | TO3: NHRDF 3 red    | NHRDF Nasik          | 231.33 | Qtls/ ha      | Purple blotch disease incidence (%) 15.83 | 1,17,897                | 2.99                  | High yield                          |
|                  |                   |                                                              |                                        |               |                     |                      |        |               |                                           |                         |                       |                                     |

#### 4. C2. Feedback on technologies assessed

| Name of technology assessed            | Useful characters as well as constraints of technology                                                                          | Socio-economic as well as administrative constraints for its adoption |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| ArkaNikentan, Bhima Shakti and L-3 red | NHRDF Red 3 recorded highest yield and income per unit area compare to Bhimashakti during Rabi Season, with higher bulb weight. | Nil                                                                   |

#### 4.C2. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)

1. Title of Technology Assessed: Assessment of Onion varieties for Rabi
2. Performance of the Technology on specific indicators: NHRDF Red 3 recorded highest yield and income per unit area compare to Bhimashakti during Rabi Season, with higher bulb weight
3. Specific Feedback from farmers: NHRDF 3 red and ArkaNikentan were found to be more profitable for Rabi season as compared to Bhima Shakti. Purple blotch incidence is less in ArkaNikentan.
4. Specific Feedback from Extension personnel and other stakeholders: The assessed varieties can be taken in rabi/summer in irrigated condition. Late sowing may affect the crop with purple blotch and low size bulbs.
5. Feedback to Research System based on results and feedback received: In Rabi season NHRDF 3 Red is performing better and storage life is also high. High yielding hybrids and resistant to purple blotch and twisting

#### 4.C3.Results of Technologies Assessed

| Crop/enterprise | Farming situation | Problem definition                                                                        | Title of OFT                                          | No. of trials | Technology Assessed | Source of technology | Yield | Unit of yield | Observations other than yield                        | Gross Return Rs. / unit | Net Return Rs. / unit | B:C Ratio (Gross income/ Gross Cost) | Remarks                                                                    |
|-----------------|-------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------|---------------------|----------------------|-------|---------------|------------------------------------------------------|-------------------------|-----------------------|--------------------------------------|----------------------------------------------------------------------------|
| 1               | 2                 | 3                                                                                         | 4                                                     | 5             | 6                   | 7                    | 8     | 9             | 10                                                   | 11                      | 12                    | 13                                   |                                                                            |
| Groundnut       | Rainfed           | Non availability of drought tolerant cultivars for the present rainfall erratic situation | Evaluation of drought tolerant varieties of Groundnut | 03            | K-6 variety         | ANGAR U, Hyderabad   | 9.95  | Qtls / ha     | Plant ht. (29.66)<br>100 Pod weight in gms(76.66gms) | 52486                   | 27926                 | 2.14                                 |                                                                            |
|                 |                   |                                                                                           |                                                       |               | DGRMB-24            | DGR, Junagarh        | 13.46 | Qtls / ha     | Plant ht. (22.40)<br>100 Pod weight in gms(91.66gms) | 71002                   | 45402                 | 2.77                                 | DGRMB-24 is found to be very promising in drought situation up to 45 days. |
|                 |                   |                                                                                           |                                                       |               | DGRMB-32            | DGR, Junagarh        | 13.11 | Qtls / ha     | Plant ht. (18.90)<br>100 Pod weight in gms(88.78gms) | 68628                   | 43028                 | 2.68                                 | -                                                                          |
|                 |                   |                                                                                           |                                                       |               | TG37A               | DGR, Junagarh        | 13.06 |               | Plant ht. (24.66)<br>100 Pod weight in gms(73.64gms) | 68892                   | 43292                 | 2.69                                 | -                                                                          |
|                 |                   |                                                                                           |                                                       |               |                     |                      |       |               |                                                      |                         |                       |                                      |                                                                            |

#### 4. C3. Feedback on technologies assessed

| Name of technology assessed                           | Useful characters as well as constraints of technology                   | Socio-economic as well as administrative constraints for its adoption |
|-------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Evaluation of drought tolerant varieties of Groundnut | Highly suitable for erratic rainfall.<br>Medium duration and bold seeded | NIL                                                                   |

#### 4.C3.Results of Technologies Assessed

1. Title of Technology Assessed: Assessment of Onion varieties for Rabi
2. Performance of the Technology on specific indicators: NHRDF Red 3 recorded highest yield and income per unit area compare to Bhimashakti during Rabi Season, with higher bulb weight
3. Specific Feedback from farmers: NHRDF 3 red and ArkaNiketan were found to be more profitable for Rabi season as compared to Bhima Shakti. Purple blotch incidence is less in ArkaNiketan.
4. Specific Feedback from Extension personnel and other stakeholders : Nil
5. Feedback to Research System based on results and feedback received: In Rabi season NHRDF 3 Red is performing better and storage life is also high.
6. Feedback on usefulness and constraints of technology

#### 4.C4.Results of Technologies Assessed

| Crop/enterprise | Farming situation | Problem definition | Title of OFT                                                         | No. of trials | Technology Assessed | Source of technology | Yield                      | Unit of yield | Observations other than yield                                                                                        | Gross Return Rs. / unit                                                                                               | Net Return Rs. / unit                                                                                                | BC Ratio (Gross income/ Gross Cost) | Remarks |   |  |
|-----------------|-------------------|--------------------|----------------------------------------------------------------------|---------------|---------------------|----------------------|----------------------------|---------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------|---|--|
| 1               | 2                 | 3                  | 4                                                                    | 5             | 6                   | 7                    | 8                          | 9             | 10                                                                                                                   | 11                                                                                                                    | 12                                                                                                                   | 13                                  |         |   |  |
| Areca nut       | Rainfed           |                    | Assessment of different compost cultures in composting of Areca husk | 03            | IIHR decomposer     | IIHR                 | -                          | -             | After 100 days<br>N (%) -0.92<br>C (%) -23.93<br>H (%) - 3.61<br>S (%) -0.13<br>C:N ratio - 26.0<br>C:H Ratio - 6.63 | -                                                                                                                     | -                                                                                                                    | -                                   |         |   |  |
|                 |                   |                    |                                                                      |               |                     | UAS Dharwad          | UASD                       | -             | -                                                                                                                    | After 100 days<br>N (%) -0.97<br>C (%) -25.18<br>H (%) - 3.80<br>S (%) -0.18<br>C:N ratio - 25.95<br>C:H Ratio - 6.62 | -                                                                                                                    | -                                   | -       |   |  |
|                 |                   |                    |                                                                      |               |                     |                      | Siddi Bio Waste decomposer | NCOF          | -                                                                                                                    | -                                                                                                                     | After 100 days<br>N (%) -0.73<br>C (%) -1.56<br>H (%) - 3.38<br>S (%) -0.31<br>C:N ratio - 29.36<br>C:H Ratio - 6.36 | -                                   | -       | - |  |
|                 |                   |                    |                                                                      |               |                     |                      |                            |               |                                                                                                                      |                                                                                                                       |                                                                                                                      |                                     |         |   |  |

#### 4. C4. Feedback on technologies assessed

| Name of technology assessed                                          | Useful characters as well as constraints of technology                           | Socio-economic as well as administrative constraints for its adoption |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Assessment of different compost cultures in composting of Areca husk | IIHR decomposer found to be having good decomposing capacity than UASD and NCOF. | Nil                                                                   |

#### 4.C4.Results of Technologies Assessed

1. Title of Technology Assessed: Assessment of different compost cultures in composting of Areca husk
2. Performance of the Technology on specific indicators: IIHR decomposer is very effective than others.
3. Specific Feedback from farmers :Huge quantity cannot be done in Areca husk
4. Specific Feedback from Extension personnel and other stakeholders: Nil
5. Feedback to Research System based on results and feedback received: Nil

#### 4.D1. Results of Technologies Refined - NIL

| Crop/enterprise | Farming situation | Problem definition | Title of OFT | No. of trials | Technology Refined       | Source of technology | Yield | Unit of yield | Observations other than yield | Gross Return Rs. / unit | Net Return Rs. / unit | BC Ratio (Gross income/ Gross Cost) |
|-----------------|-------------------|--------------------|--------------|---------------|--------------------------|----------------------|-------|---------------|-------------------------------|-------------------------|-----------------------|-------------------------------------|
| 1               | 2                 | 3                  | 4            | 5             | 6                        | 7                    | 8     | 9             | 10                            | 11                      | 12                    | 13                                  |
|                 |                   |                    |              |               | T.O.1 (Farmers practice) |                      |       |               |                               |                         |                       |                                     |
|                 |                   |                    |              |               | T.O.2                    |                      |       |               |                               |                         |                       |                                     |
|                 |                   |                    |              |               | T.O.3                    |                      |       |               |                               |                         |                       |                                     |

#### 4. D2. Feedback on technologies refined - NIL

| Name of technology refined | Useful characters as well as constraints of technology | Socio-economic as well as administrative constraints for its adoption |
|----------------------------|--------------------------------------------------------|-----------------------------------------------------------------------|
|                            |                                                        |                                                                       |

#### 4.D.2. Details of Technologies refined: - NIL

1. Title of Technology Refined
2. Performance of the Technology on specific indicators
3. Specific Feedback from farmers
4. Specific Feedback from Extension personnel and other stakeholders
5. Feedback to Research System based on results/feedback received
6. Feedback on usefulness and constraints of technology



OFT - Assessment of Mustard varieties as alternative oil seed crop



OFT - Assessment of Onion varieties for Rabi



OFT - Assessment of Drought tolerant varieties in Groundnut



OFT - Assessment of Different Compost cultures in composting of Arecahusk



|  |                        |         |                |               |         |        |                                                                                                                 |                                                |     |   |   |   |   |   |
|--|------------------------|---------|----------------|---------------|---------|--------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----|---|---|---|---|---|
|  | Commercial             |         |                |               |         |        |                                                                                                                 |                                                |     |   |   |   |   |   |
|  | Medicinal and aromatic |         |                |               |         |        |                                                                                                                 |                                                |     |   |   |   |   |   |
|  | Fodder                 |         |                |               |         |        |                                                                                                                 |                                                |     |   |   |   |   |   |
|  | Irrigated              | Rabi    | Fodder Sorghum | CoFS 29       | -       | Fodder | Fodder Seeds CoFS 29 and AMC                                                                                    | 0.4                                            | 0.4 | 1 | 4 | 5 | 0 |   |
|  | Irrigated              | Rabi    | Fodder Grass   | Marvel grass  | -       | Fodder | Fodder Stem Cuttings                                                                                            | 0.4                                            | 0.4 | 2 | 3 | 4 | 1 |   |
|  | Irrigated              | Rabi    | Fodder Sorghum | Hybrid Napier | -       | Fodder | Fodder Stem Cuttings                                                                                            | 0.4                                            | 0.4 | 2 | 3 | 4 | 1 |   |
|  | Plantation             |         |                |               |         |        |                                                                                                                 |                                                |     |   |   |   |   |   |
|  | Irrigated              | Kharif  | Areca nut      | Local         | -       | ICM    | Neem cake-2kg per tree, French bean seeds-10kg/acre, COC- 10g per lit water, Hexoconazole -3 ml per 125ml water | 2                                              | 2   | 0 | 5 | 5 | 0 |   |
|  | Fibre                  |         |                |               |         |        |                                                                                                                 |                                                |     |   |   |   |   |   |
|  | Dairy                  |         |                |               |         |        |                                                                                                                 |                                                |     |   |   |   |   |   |
|  | Poultry                |         |                |               |         |        |                                                                                                                 |                                                |     |   |   |   |   |   |
|  | Rabbitry               |         |                |               |         |        |                                                                                                                 |                                                |     |   |   |   |   |   |
|  | Piggery                |         |                |               |         |        |                                                                                                                 |                                                |     |   |   |   |   |   |
|  | Sheep and goat         |         |                |               |         |        |                                                                                                                 |                                                |     |   |   |   |   |   |
|  | Duckery                |         |                |               |         |        |                                                                                                                 |                                                |     |   |   |   |   |   |
|  | Common carps           |         |                |               |         |        |                                                                                                                 |                                                |     |   |   |   |   |   |
|  | Mussels                |         |                |               |         |        |                                                                                                                 |                                                |     |   |   |   |   |   |
|  | Ornamental fishes      |         |                |               |         |        |                                                                                                                 |                                                |     |   |   |   |   |   |
|  | Oyster mushroom        |         |                |               |         |        |                                                                                                                 |                                                |     |   |   |   |   |   |
|  | Button mushroom        |         |                |               |         |        |                                                                                                                 |                                                |     |   |   |   |   |   |
|  | Vermicompost           |         |                |               |         |        |                                                                                                                 |                                                |     |   |   |   |   |   |
|  | Others (Specify)       |         |                |               |         |        |                                                                                                                 |                                                |     |   |   |   |   |   |
|  | Value addition         | Rainfed | Late khari f   | Ragi          | KMR-340 | -      | Value addit                                                                                                     | Demonstration of Finger millet Variety KMR 340 | 2   | 2 | 3 | 7 | 8 | 2 |

|                    |          |              |                       |                 |   |                      |                                                                          |                    |    |   |   |   |   |  |
|--------------------|----------|--------------|-----------------------|-----------------|---|----------------------|--------------------------------------------------------------------------|--------------------|----|---|---|---|---|--|
|                    |          |              |                       |                 |   |                      | ion                                                                      | for Value Addition |    |   |   |   |   |  |
| Value addition     | Rainfed  | Late khari f | Foxtail               | DHF T109 -3     | - | Valu e addit ion     | Demonstratio n of Foxtail millet Variety DHFt 109-3 for Value Addition   | 2                  | 2  | 5 | 5 | 7 | 3 |  |
| Value addition     | Rainfed  | Late khari f | Brown top millet      | Loca l          | - | Valu e addit ion     | Demonstratio n of Brown top millet for Value Addition and Market Linkage | 2                  | 2  | 5 | 5 | 7 | 3 |  |
| Enterprise         |          |              |                       |                 |   |                      |                                                                          |                    |    |   |   |   |   |  |
| EDP- Tamarind      | Rain fed |              | Tamari nd             | Loca l          | - | EDP                  | Tamarind processing. Value Addition and Market Linkage                   | 1                  | 1  | 0 | 0 | 0 | 0 |  |
| Nutrition Security | Rain fed |              | Vegeta ble and Fruits | IIHR Varie ties | - | Nutri tion Secu rity | Demonstratio n on Nutria Gardens                                         | 30                 | 30 | 0 | 0 | 0 | 0 |  |

### 5.A. 1. Soil fertility status of FLDs plots, if analysed

| Sl. N o. | Category    | Farming Situation | Season and Year   | Crop             | Variety/ breed | Hybrid | Thematic area                         | Technology Demonstrated                                                          | Season and year   | Status of soil |   |   | Previous crop grown |
|----------|-------------|-------------------|-------------------|------------------|----------------|--------|---------------------------------------|----------------------------------------------------------------------------------|-------------------|----------------|---|---|---------------------|
|          |             |                   |                   |                  |                |        |                                       |                                                                                  |                   | N              | P | K |                     |
|          | Oilse eds   |                   |                   |                  |                |        |                                       |                                                                                  |                   |                |   |   |                     |
|          | Pulse s     |                   |                   |                  |                |        |                                       |                                                                                  |                   |                |   |   |                     |
|          | Cereals     |                   |                   |                  |                |        |                                       |                                                                                  |                   |                |   |   |                     |
|          |             | Irrig ated        | Khari f 2020      | Paddy            | Pous tic 9     |        | ICM                                   | Demonstration of water saving Aerobic Paddy Paustic-9                            | Khari f 2020      | L              | M | M | Groun dnut          |
|          | Millets     |                   |                   |                  |                |        |                                       |                                                                                  |                   |                |   |   |                     |
|          |             | Rain fed          | Late Khari f 2020 | Ragi             | KMR 630        | -      | High yield ing                        | Enhancement of productivity of Finger millet by drought tolerant variety KMR-630 | Late Khari f 2020 | L              | L | M | Ragi                |
|          |             | Rain fed          | Late khari f 2019 | Foxtail          | DHFT 109-3     | -      | Valu e addit ion                      | Demonstratio n of Foxtail millet Variety DHFt 109-3 for Value Addition           | Late khari f 2020 | L              | M | L | Foxtail             |
|          |             | Rain fed          | Late khari f 2020 | Ragi             | KMR- 340       | -      | Valu e addit ion                      | Demonstration of Finger millet Variety KMR 340 for Value Addition                | Late khari f 2020 | M              | M | L | Ragi                |
|          |             | Rain fed          | Late khari f 2020 | Brown top millet | Local          | -      | Valu e addit ion and mark et linka ge | Demonstration on Browntop millet for value addition and market linkage           | Khari f 2020      | M              | M | L | Brown top millet    |
|          | Vegetabl es |                   |                   |                  |                |        |                                       |                                                                                  |                   |                |   |   |                     |
|          |             | Irrig ated        | Summer 2021       | Tomato           | Arka Abedh     | -      | ICM                                   |                                                                                  | Summer 2021       | L              | L | M | Groun dnut          |
|          |             | Irrig ated        | Summer 2020       | French Bean      | Arka Arjun     | -      | ICM                                   | Arka Arjun AMC: 20g /lit Vegetable Special- 2gm /lit & Neem soap : @ 7 g/lit     | Rabi 2020         | M              | L | M | Ragi                |
|          |             | Irrig ated        | Rabi 2020         | Chilli           | ArkaHar ita    |        | ICM                                   | ArkaHarita -F1 hybrid- AMC 20g/lit                                               | Rabi 2020         | M              | M | L | Groun dnut          |





## 5.B. Results of FLDs

## 5.B.1. Crops

| Crop       | Name of the technology demonstrated                                                   | Variety     | Hybrid        | Farming situation | No. of Dem o. | Ar ea (ha ) | Yield (q/ha) |        |       | Che ck | % Increa se | Economics of demonstration (Rs./ha) |            |      | Economics of demonstration (Rs./ha) |            |      |
|------------|---------------------------------------------------------------------------------------|-------------|---------------|-------------------|---------------|-------------|--------------|--------|-------|--------|-------------|-------------------------------------|------------|------|-------------------------------------|------------|------|
|            |                                                                                       |             |               |                   |               |             | H            | L      | A     |        |             | Gross Return                        | Net Return | BC R | Gross Return                        | Net Return | BC R |
|            |                                                                                       |             |               |                   |               |             |              |        |       |        |             |                                     |            |      |                                     |            |      |
| Oilseeds   |                                                                                       |             |               |                   |               |             |              |        |       |        |             |                                     |            |      |                                     |            |      |
| Pulses     |                                                                                       |             |               |                   |               |             |              |        |       |        |             |                                     |            |      |                                     |            |      |
| Cereals    |                                                                                       |             |               |                   |               |             |              |        |       |        |             |                                     |            |      |                                     |            |      |
|            | Demonstration of water saving Aerobic Paddy Paustic-9                                 | Paustic-9   | -             | Irrigated         | 10            | 2           | 36.2         | 27.6   | 32.90 | 26.70  | 23.20       | 56917                               | 30167      | 2.13 | 46191                               | 18641      | 1.68 |
| Millets    |                                                                                       |             |               |                   |               |             |              |        |       |        |             |                                     |            |      |                                     |            |      |
|            | Demonstration of Foxtail millet Variety DHFt 109-3 for Value Addition                 | DHFt 109-3  | -             | Rainfed           | 10            | 4           | 16.3         | 15.02  | 15.66 | 12.90  | 20.93       | 27300                               | 51340      | 1.88 | 25800                               | 42280      | 1.63 |
|            | Demonstration of Finger millet Variety KMR 340 for Value Addition                     | KMR-340     | -             | Rainfed           | 10            | 4           | 24.81        | 23.60  | 24.20 | 19.60  | 23.46       | 35680                               | 88600      | 2.48 | 33480                               | 53980      | 1.61 |
|            | Demonstration on Browntop millet for value addition and market linkage                | Local       | -             | Rainfed           | 10            | 4           | On going     |        |       |        |             |                                     |            |      |                                     |            |      |
|            | Enhancement of productivity of Finger millet by drought tolerant variety KMR-630      | KMR-630     | -             | Rainfed           | 10            | 04          | 40.2         | 29.3   | 38.30 | 28.50  | 34.30       | 84260                               | 58785      | 3.30 | 62700                               | 36130      | 2.30 |
| Vegetables |                                                                                       |             |               |                   |               |             |              |        |       |        |             |                                     |            |      |                                     |            |      |
|            | Bhendi: ArkaNikitha -F1 hybrid AMC : Drenching @ 10ml /lit Vegetable Special-2gm /lit | -           | ArkaNikitha - | Irrigated         | 05            | 02          | 226.40       | 202.30 | 212.6 | 186.6  | 13.93       | 170080                              | 111730     | 2.91 | 149280                              | 86920      | 2.39 |
|            | French bean seeds 40 kg. Neem soap 5gm /lit, Jeevamrut ha- 2000 liter/ha              | ArkaSharath | -             | Irrigated         | 05            | 01          | 124.2        | 100.4  | 112.2 | 91.9   | 22.10       | 168300                              | 135169     | 5.07 | 137850                              | 101597     | 3.80 |



|  |                                                                                                                            |                          |  |           |    |          |      |      |       |     |       |        |        |      |        |        |      |
|--|----------------------------------------------------------------------------------------------------------------------------|--------------------------|--|-----------|----|----------|------|------|-------|-----|-------|--------|--------|------|--------|--------|------|
|  | Neem cake-2kg per tree, French bean seeds-10kg/acre, COC-10g per lit water, Hexoconazole -3 ml per 125ml water in Arecanut | Local                    |  | Irrigated | 05 | 1        | 11.9 | 9.7  | 11.1  | 9.2 | 20.60 | 324097 | 241208 | 3.91 | 227470 | 145345 | 2.77 |
|  | Enterprise                                                                                                                 |                          |  |           |    |          |      |      |       |     |       |        |        |      |        |        |      |
|  | EDP-Tamarind                                                                                                               | Local                    |  | Rain fed  | 01 | On going |      |      |       |     |       |        |        |      |        |        |      |
|  | Nutrition Security                                                                                                         | IIHR Varieties and Local |  | Rain fed  | 30 |          | 79.1 | 68.2 | 73.65 |     |       | 25000  | 61030  | 2.44 |        |        |      |

\* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

H – Highest Yield, L – Lowest Yield A – Average Yield

#### Data on additional parameters other than yield (viz., reduction of percentage in weed/pest/diseases etc.)

| Data on other parameters in relation to technology demonstrated                                                                                                                                                                                               |                                                                           |                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Parameter with unit                                                                                                                                                                                                                                           | Demo                                                                      | Check                                                                    |
| Aerobic Paddy - Plant Height (cm)                                                                                                                                                                                                                             | 94.5                                                                      | 88.4                                                                     |
| No of tillers ( nos)                                                                                                                                                                                                                                          | 22.4                                                                      | 9.4                                                                      |
| Ragi- Plant Height (cm)                                                                                                                                                                                                                                       | 125                                                                       | 107                                                                      |
| % Blastincidence                                                                                                                                                                                                                                              | 0.0                                                                       | 21.30                                                                    |
| French bean -Plant Height (cm)                                                                                                                                                                                                                                | 63.7                                                                      | 42.9                                                                     |
| Root length (cm)                                                                                                                                                                                                                                              | 16.1                                                                      | 12.3                                                                     |
| Chilli -No. of fruits /plant                                                                                                                                                                                                                                  | 210                                                                       | 193                                                                      |
| Chilli -No. of fruits /plant                                                                                                                                                                                                                                  | 190.2                                                                     | 169.30                                                                   |
| French bean- No. of pods /plant                                                                                                                                                                                                                               | 34.30                                                                     | 27.40                                                                    |
| Pomegranate – Wilt (%)                                                                                                                                                                                                                                        | 1.2                                                                       | 7.1                                                                      |
| Fruit Blight (%)                                                                                                                                                                                                                                              | 18.2                                                                      | 46.4                                                                     |
| Arecanut - Anaberoga (%)                                                                                                                                                                                                                                      | 2                                                                         | 6                                                                        |
| Demonstration of Finger millet Variety KMR 340 for Value Addition<br>(A) Plant height (cm), (B) Productive tillers (no.), (C) Straw yield (t/ha), (D) Malt price (Rs/kg), (E) Mixture (Rs/kg), (F) Papad (Rs/kg), (G) Laddu (Rs/kg), (H) Ragi Biscuit (Rs/kg) | (A) 119.40 (B) 6.40 (C) 5.28, (D) 200, (E) 250, (F) 250, (G) 300, (H) 350 | (A) 111.32 (B) 4.80, (C) 4.92 (D) 160, (E) 220, (F) 200, (G) 250 (H) 300 |
| Demonstration of foxtail millet Variety DHFt 109-3 for Value Addition                                                                                                                                                                                         | (A) 124.20, (B) 5.90, (C) 2.68                                            | (A) 119.80, (B) 5.08, (C) 2.14                                           |



|                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Piggery                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sheep and goat         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Duckery                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others<br>(pl.specify) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

\* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

Data on additional parameters other than yield (viz., reduction of percentage diseases, increase in conceiving rate, inter-calving period etc.)

| Data on other parameters in relation to technology demonstrated |      |              |
|-----------------------------------------------------------------|------|--------------|
| Parameter with unit                                             | Demo | Check if any |
|                                                                 |      |              |

#### 5. B4. Feedback on livestock technologies demonstrated

| Name of livestock technology demonstrated | Useful characters as well as constraints of technology | Socio-economic as well as administrative constraints for its adoption |
|-------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------|
|                                           |                                                        |                                                                       |
|                                           |                                                        |                                                                       |

#### 5.B.5. Fisheries

| Type of Breed          | Name of the technology demonstrated | Breed | No. of Demo | Units/ Area (m <sup>2</sup> ) | Name of the parameter with unit | Yield (q/ha) |   |   | % Increase | *Economics of demonstration (Rs./unit) |            |        | *Economics of check (Rs./unit) |            |        |  |  |  |  |
|------------------------|-------------------------------------|-------|-------------|-------------------------------|---------------------------------|--------------|---|---|------------|----------------------------------------|------------|--------|--------------------------------|------------|--------|--|--|--|--|
|                        |                                     |       |             |                               |                                 | Demo         |   |   |            | Gross Return                           | Net Return | ** BCR | Gross Return                   | Net Return | ** BCR |  |  |  |  |
|                        |                                     |       |             |                               |                                 | H            | L | A |            |                                        |            |        |                                |            |        |  |  |  |  |
| Common carps           |                                     |       |             |                               |                                 |              |   |   |            |                                        |            |        |                                |            |        |  |  |  |  |
| Mussels                |                                     |       |             |                               |                                 |              |   |   |            |                                        |            |        |                                |            |        |  |  |  |  |
| Ornamental fishes      |                                     |       |             |                               |                                 |              |   |   |            |                                        |            |        |                                |            |        |  |  |  |  |
| Others<br>(pl.specify) |                                     |       |             |                               |                                 |              |   |   |            |                                        |            |        |                                |            |        |  |  |  |  |

\* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

Data on additional parameters other than yield (viz., reduction of percentage diseases, effective use of land etc.)

| Data on other parameters in relation to technology demonstrated |      |              |
|-----------------------------------------------------------------|------|--------------|
| Parameter with unit                                             | Demo | Check if any |
|                                                                 |      |              |

### 5. B6. Feedback on fisheries technologies demonstrated

| Name of fisheries technology demonstrated | Useful characters as well as constraints of technology | Socio-economic as well as administrative constraints for its adoption |
|-------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------|
|                                           |                                                        |                                                                       |

### 5.B.7. Other enterprises

| Enterprise          | Name of the technology demonstrated | Variety / species | No. of Demo | Units / Area {m <sup>2</sup> } | Name of the parameter with unit | Yield |   |   | % Increase | *Economics of demonstration (Rs./unit) or (Rs./m <sup>2</sup> ) |            |        | *Economics of check (Rs./unit) or (Rs./m <sup>2</sup> ) |            |        |  |  |
|---------------------|-------------------------------------|-------------------|-------------|--------------------------------|---------------------------------|-------|---|---|------------|-----------------------------------------------------------------|------------|--------|---------------------------------------------------------|------------|--------|--|--|
|                     |                                     |                   |             |                                |                                 | Demo  |   |   |            | Gross Return                                                    | Net Return | ** BCR | Gross Return                                            | Net Return | ** BCR |  |  |
|                     |                                     |                   |             |                                |                                 | H     | L | A |            |                                                                 |            |        |                                                         |            |        |  |  |
| Oyster mushroom     |                                     |                   |             |                                |                                 |       |   |   |            |                                                                 |            |        |                                                         |            |        |  |  |
| Button mushroom     |                                     |                   |             |                                |                                 |       |   |   |            |                                                                 |            |        |                                                         |            |        |  |  |
| Vermicompost        |                                     |                   |             |                                |                                 |       |   |   |            |                                                                 |            |        |                                                         |            |        |  |  |
| Sericulture         |                                     |                   |             |                                |                                 |       |   |   |            |                                                                 |            |        |                                                         |            |        |  |  |
| Apiculture          |                                     |                   |             |                                |                                 |       |   |   |            |                                                                 |            |        |                                                         |            |        |  |  |
| Others (pl.specify) |                                     |                   |             |                                |                                 |       |   |   |            |                                                                 |            |        |                                                         |            |        |  |  |
|                     |                                     |                   |             |                                |                                 |       |   |   |            |                                                                 |            |        |                                                         |            |        |  |  |

\* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

**Data on additional parameters other than yield (viz., additional income realized, employment generation, quantum of farm resources recycled etc.)**

| Data on other parameters in relation to technology demonstrated |      |       |
|-----------------------------------------------------------------|------|-------|
| Parameter with unit                                             | Demo | Local |
|                                                                 |      |       |

### 5. B8. Feedback on enterprises demonstrated

| Name of enterprise demonstrated | Useful characters as well as constraints of technology | Socio-economic as well as administrative constraints for its adoption |
|---------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------|
|                                 |                                                        |                                                                       |

### 5.B.9. Farm implements and machinery

| Name of the implement | Cost of the implement in Rs. | Name of the technology demonstrated | No. of Demo | Area covered under demo in ha | Name of the operation with unit | Labour requirement in Mandays |       | % save | Savings in labour (Rs./ha) | *Economics of demonstration (Rs./ha) |            |        | *Economics of check (Rs./ha) |            |        |  |  |
|-----------------------|------------------------------|-------------------------------------|-------------|-------------------------------|---------------------------------|-------------------------------|-------|--------|----------------------------|--------------------------------------|------------|--------|------------------------------|------------|--------|--|--|
|                       |                              |                                     |             |                               |                                 | Demo                          | Check |        |                            | Gross Return                         | Net Return | ** BCR | Gross Return                 | Net Return | ** BCR |  |  |
|                       |                              |                                     |             |                               |                                 |                               |       |        |                            |                                      |            |        |                              |            |        |  |  |

\* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

**Data on additional parameters other than laboursaved (viz., reduction in drudgery, time etc.)**

| Data on other parameters in relation to technology demonstrated |      |       |
|-----------------------------------------------------------------|------|-------|
| Parameter with unit                                             | Demo | Local |
|                                                                 |      |       |

5. B10. Feedback on farm implements demonstrated

| Name of farm implement demonstrated | Useful characters as well as constraints of technology | Socio-economic as well as administrative constraints for its adoption |
|-------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------|
|                                     |                                                        |                                                                       |

5.B.6.Extension and Training activities under FLD

| Sl.No. | Activity                             | No. of activities organised | Number of participants | Remarks |
|--------|--------------------------------------|-----------------------------|------------------------|---------|
| 1      | Field days                           |                             |                        |         |
| 2      | Farmers Training                     |                             |                        |         |
| 3      | Media coverage                       | 01                          | 05                     |         |
| 4      | Training for extension functionaries |                             |                        |         |
| 5      | Others (Please specify)              |                             |                        |         |



FLD - Enhancement of Productivity of Finger millet by drought tolerant variety KMR 630



FLD - Integrated Crop Management in French Bean – Arka Arjun



FLD - Integrated Crop Management in Chilli – Arka Harita



FLD - Demonstration of Tube rose variety Arka Prajwal



FLD - Demonstration of water saving Aerobic Paddy Paustic-9



FLD - Demonstration of AMC liquid and ArkaActino Plus on growth, quality and yield of Pomegranate



FLD - Integrated Crop Management in Arecanut



FLD - Demonstration of Fodder Sorghum CoFS 29



FLD - Demonstration of Finger millet Variety KMR 340 for Value Addition



FLD - Demonstration of Foxtail millet Variety DHFt 109-3 for Value Addition



FLD - Demonstration of Brown Top Millet for Value Addition and Market linkage



FLD - ICM in Tomato



FLD - Nutri Garden at Badavanahalli



FLD - Nutri Garden at Thanganahalli



**PART VI – DEMONSTRATIONS ON CROP HYBRIDS(2020)****Demonstration details on crop hybrids**

| Type of Breed           | Name of the technology demonstrated                                                            | Name of the hybrid | No. of Demo | Area (ha) | Yield (q/ha) |        |       |       | % Increase | *Economics of demonstration (Rs./ha) |            |        | *Economics of check (Rs./ha) |            |        |
|-------------------------|------------------------------------------------------------------------------------------------|--------------------|-------------|-----------|--------------|--------|-------|-------|------------|--------------------------------------|------------|--------|------------------------------|------------|--------|
|                         |                                                                                                |                    |             |           | Demo         |        |       | Check |            | Gross Return                         | Net Return | ** BCR | Gross Return                 | Net Return | ** BCR |
|                         |                                                                                                |                    |             |           | H            | L      | A     |       |            |                                      |            |        |                              |            |        |
| <b>Cereals</b>          |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Bajra                   |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Maize                   |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Paddy                   |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Sorghum                 |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Wheat                   |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Others (pl.specify)     |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| <b>Total</b>            |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| <b>Oilseeds</b>         |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Castor                  |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Mustard                 |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Safflower               |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Sesame                  |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Sunflower               |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Groundnut               |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Soybean                 |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Others (pl.specify)     |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| <b>Total</b>            |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| <b>Pulses</b>           |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Greengram               |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Blackgram               |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Bengalgram              |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Redgram                 |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Others (pl.specify)     |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| <b>Total</b>            |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| <b>Vegetable crops</b>  |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Bottle gourd            |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Capsicum                |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Others : Bhendi         | Bhendi: ArkaNikitha - F1 hybrid<br>AMC : Drenching @ 10ml /lit<br>Vegetable Special - 2gm /lit | Arka Nikitha       | 05          | 02        | 226.40       | 202.30 | 212.6 | 186.6 | 13.93      | 170080                               | 111730     | 2.91   | 149280                       | 86920      | 2.39   |
| <b>Total</b>            |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| <b>Commercial crops</b> |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Sugarcane               |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Coconut                 |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Others (pl.specify)     |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| <b>Total</b>            |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| <b>Fodder crops</b>     |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Maize (Fodder)          |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Sorghum (Fodder)        |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Others (pl.specify)     |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| <b>Total</b>            |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |
| Others (pl.specify)     | ICM in Chilli                                                                                  | Arka Harita        | 05          | 1         | 230.5        | 217.6  | 225.4 | 179.8 | 25.36      | 270480                               | 211700     | 4.60   | 215760                       | 154980     | 3.54   |
| <b>Total</b>            |                                                                                                |                    |             |           |              |        |       |       |            |                                      |            |        |                              |            |        |

H-High L-Low, A-Average

\*Please ensure that the name of the hybrid is correct pertaining to the crop specified

### Feedback on crop hybrids demonstrated

| Name of crop hybrid demonstrated | Useful characters as well as constraints of technology                                                                                                                                                                   | Socio-economic as well as administrative constraints for its adoption |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| ICM in Chilli – Arka Harita      | Arka Harita hybrid gives high yield and pungency, Less leaf curl incidence and fetches good price in the market compared to local.                                                                                       | Nil                                                                   |
| Arka Nikitha Bhendi Hybrid       | <ul style="list-style-type: none"> <li>• Arka Nikitha -F1 hybrid: 125 -130 days duration, tolerant to Bhendi yellow vein Mosaic and Yields 21-24 t/ha</li> <li>• Timely availability of seeds must be ensured</li> </ul> | Market acceptability should be improved.                              |







|                                               |          |           |          |           |          |          |          |           |          |           |
|-----------------------------------------------|----------|-----------|----------|-----------|----------|----------|----------|-----------|----------|-----------|
| Others (pl.specify)                           |          |           |          |           |          |          |          |           |          |           |
| <b>Production of Inputs at site</b>           |          |           |          |           |          |          |          |           |          |           |
| Seed Production                               |          |           |          |           |          |          |          |           |          |           |
| Planting material production                  |          |           |          |           |          |          |          |           |          |           |
| Bio-agents production                         |          |           |          |           |          |          |          |           |          |           |
| Bio-pesticides production                     |          |           |          |           |          |          |          |           |          |           |
| Bio-fertilizer production                     |          |           |          |           |          |          |          |           |          |           |
| Vermi-compost production                      |          |           |          |           |          |          |          |           |          |           |
| Organic manures production                    |          |           |          |           |          |          |          |           |          |           |
| Production of fry and fingerlings             |          |           |          |           |          |          |          |           |          |           |
| Production of Bee-colonies and wax sheets     |          |           |          |           |          |          |          |           |          |           |
| Small tools and implements                    |          |           |          |           |          |          |          |           |          |           |
| Production of livestock feed and fodder       |          |           |          |           |          |          |          |           |          |           |
| Production of Fish feed                       |          |           |          |           |          |          |          |           |          |           |
| Mushroom production                           |          |           |          |           |          |          |          |           |          |           |
| Apiculture                                    |          |           |          |           |          |          |          |           |          |           |
| Others (pl.specify)                           |          |           |          |           |          |          |          |           |          |           |
| <b>CapacityBuilding and Group Dynamics</b>    |          |           |          |           |          |          |          |           |          |           |
| Leadership development                        |          |           |          |           |          |          |          |           |          |           |
| Group dynamics                                |          |           |          |           |          |          |          |           |          |           |
| Formation and Management of SHGs              |          |           |          |           |          |          |          |           |          |           |
| Mobilization of social capital                |          |           |          |           |          |          |          |           |          |           |
| Entrepreneurial development of farmers/youths |          |           |          |           |          |          |          |           |          |           |
| Others (pl.specify)                           | 1        | 21        | 8        | 29        | 0        | 0        | 0        | 21        | 8        | 29        |
| Technological products and activities of KVK  |          |           |          |           |          |          |          |           |          |           |
| <b>Agro-forestry</b>                          |          |           |          |           |          |          |          |           |          |           |
| Production technologies                       |          |           |          |           |          |          |          |           |          |           |
| Nursery management                            |          |           |          |           |          |          |          |           |          |           |
| Integrated Farming Systems                    |          |           |          |           |          |          |          |           |          |           |
| Others (Pl. specify)                          |          |           |          |           |          |          |          |           |          |           |
| <b>TOTAL</b>                                  | <b>3</b> | <b>69</b> | <b>8</b> | <b>77</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>69</b> | <b>8</b> | <b>77</b> |



On campus training on Dragon and Plantation crops production Extension functionaries



On Campus ASCI Training on Mushroom Grower



On Campus ASCI Training on Organic Farming









|                                               |           |            |            |            |          |          |          |            |            |            |
|-----------------------------------------------|-----------|------------|------------|------------|----------|----------|----------|------------|------------|------------|
| Seed Production                               |           |            |            |            |          |          |          |            |            |            |
| Planting material production                  |           |            |            |            |          |          |          |            |            |            |
| Bio-agents production                         |           |            |            |            |          |          |          |            |            |            |
| Bio-pesticides production                     |           |            |            |            |          |          |          |            |            |            |
| Bio-fertilizer production                     |           |            |            |            |          |          |          |            |            |            |
| Vermi-compost production                      |           |            |            |            |          |          |          |            |            |            |
| Organic manures production                    |           |            |            |            |          |          |          |            |            |            |
| Production of fry and fingerlings             |           |            |            |            |          |          |          |            |            |            |
| Production of Bee-colonies and wax sheets     |           |            |            |            |          |          |          |            |            |            |
| Small tools and implements                    |           |            |            |            |          |          |          |            |            |            |
| Production of livestock feed and fodder       |           |            |            |            |          |          |          |            |            |            |
| Production of Fish feed                       |           |            |            |            |          |          |          |            |            |            |
| Mushroom production                           |           |            |            |            |          |          |          |            |            |            |
| Apiculture                                    |           |            |            |            |          |          |          |            |            |            |
| Others (pl.specify)                           |           |            |            |            |          |          |          |            |            |            |
| <b>CapacityBuilding and Group Dynamics</b>    |           |            |            |            |          |          |          |            |            |            |
| Leadership development                        |           |            |            |            |          |          |          |            |            |            |
| Group dynamics                                |           |            |            |            |          |          |          |            |            |            |
| Formation and Management of SHGs              |           |            |            |            |          |          |          |            |            |            |
| Mobilization of social capital                |           |            |            |            |          |          |          |            |            |            |
| Entrepreneurial development of farmers/youths |           |            |            |            |          |          |          |            |            |            |
| Others (pl.specify)                           |           |            |            |            |          |          |          |            |            |            |
| <b>Agro-forestry</b>                          |           |            |            |            |          |          |          |            |            |            |
| Production technologies                       |           |            |            |            |          |          |          |            |            |            |
| Nursery management                            |           |            |            |            |          |          |          |            |            |            |
| Integrated Farming Systems                    |           |            |            |            |          |          |          |            |            |            |
| Others (Pl.specify)                           |           |            |            |            |          |          |          |            |            |            |
| <b>TOTAL</b>                                  | <b>22</b> | <b>518</b> | <b>158</b> | <b>676</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>518</b> | <b>158</b> | <b>676</b> |

## 7.C.Training for Rural Youths including sponsored training programmes (on campus) - NIL

| Area of training                                        | No. of Courses | No. of Participants |          |           |          |          |          |             |          |           |
|---------------------------------------------------------|----------------|---------------------|----------|-----------|----------|----------|----------|-------------|----------|-----------|
|                                                         |                | General             |          |           | SC/ST    |          |          | Grand Total |          |           |
|                                                         |                | Male                | Female   | Total     | Male     | Female   | Total    | Male        | Female   | Total     |
| Nursery Management of Horticulture crops                |                |                     |          |           |          |          |          |             |          |           |
| Training and pruning of orchards                        |                |                     |          |           |          |          |          |             |          |           |
| Protected cultivation of vegetable crops                |                |                     |          |           |          |          |          |             |          |           |
| Commercial fruit production                             |                |                     |          |           |          |          |          |             |          |           |
| Integrated farming                                      |                |                     |          |           |          |          |          |             |          |           |
| Seed production                                         |                |                     |          |           |          |          |          |             |          |           |
| Production of organic inputs                            |                |                     |          |           |          |          |          |             |          |           |
| Planting material production                            |                |                     |          |           |          |          |          |             |          |           |
| Vermi-culture                                           | 1              | 18                  | 2        | 20        | 0        | 0        | 0        | 18          | 2        | 20        |
| Mushroom Production                                     |                |                     |          |           |          |          |          |             |          |           |
| Bee-keeping                                             |                |                     |          |           |          |          |          |             |          |           |
| Sericulture                                             |                |                     |          |           |          |          |          |             |          |           |
| Repair and maintenance of farm machinery and implements |                |                     |          |           |          |          |          |             |          |           |
| Value addition                                          |                |                     |          |           |          |          |          |             |          |           |
| Small scale processing                                  |                |                     |          |           |          |          |          |             |          |           |
| Post Harvest Technology                                 |                |                     |          |           |          |          |          |             |          |           |
| Tailoring and Stitching                                 |                |                     |          |           |          |          |          |             |          |           |
| Rural Crafts                                            |                |                     |          |           |          |          |          |             |          |           |
| Production of quality animal products                   |                |                     |          |           |          |          |          |             |          |           |
| Dairying                                                |                |                     |          |           |          |          |          |             |          |           |
| Sheep and goat rearing                                  |                |                     |          |           |          |          |          |             |          |           |
| Quail farming                                           |                |                     |          |           |          |          |          |             |          |           |
| Piggery                                                 |                |                     |          |           |          |          |          |             |          |           |
| Rabbit farming                                          |                |                     |          |           |          |          |          |             |          |           |
| Poultry production                                      |                |                     |          |           |          |          |          |             |          |           |
| Ornamental fisheries                                    |                |                     |          |           |          |          |          |             |          |           |
| Composite fish culture                                  |                |                     |          |           |          |          |          |             |          |           |
| Freshwater prawn culture                                |                |                     |          |           |          |          |          |             |          |           |
| Shrimp farming                                          |                |                     |          |           |          |          |          |             |          |           |
| Pearl culture                                           |                |                     |          |           |          |          |          |             |          |           |
| Cold water fisheries                                    |                |                     |          |           |          |          |          |             |          |           |
| Fish harvest and processing technology                  |                |                     |          |           |          |          |          |             |          |           |
| Fry and fingerling rearing                              |                |                     |          |           |          |          |          |             |          |           |
| Any other (pl.specify)                                  |                |                     |          |           |          |          |          |             |          |           |
| ICM in Coconut                                          | 1              | 22                  | 0        | 22        | 0        | 0        | 0        | 22          | 0        | 22        |
| <b>TOTAL</b>                                            | <b>2</b>       | <b>40</b>           | <b>2</b> | <b>42</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>40</b>   | <b>2</b> | <b>42</b> |

## 7.D. Training for Rural Youths including sponsored training programmes (off campus)

| Area of training                                        | No. of Courses | No. of Participants |           |           |          |          |          |             |           |           |
|---------------------------------------------------------|----------------|---------------------|-----------|-----------|----------|----------|----------|-------------|-----------|-----------|
|                                                         |                | General             |           |           | SC/ST    |          |          | Grand Total |           |           |
|                                                         |                | Male                | Female    | Total     | Male     | Female   | Total    | Male        | Female    | Total     |
| Nursery Management of Horticulture crops                |                |                     |           |           |          |          |          |             |           |           |
| Training and pruning of orchards                        |                |                     |           |           |          |          |          |             |           |           |
| Protected cultivation of vegetable crops                |                |                     |           |           |          |          |          |             |           |           |
| Commercial fruit production                             |                |                     |           |           |          |          |          |             |           |           |
| Integrated farming                                      |                |                     |           |           |          |          |          |             |           |           |
| Seed production                                         |                |                     |           |           |          |          |          |             |           |           |
| Production of organic inputs                            |                |                     |           |           |          |          |          |             |           |           |
| Planting material production                            |                |                     |           |           |          |          |          |             |           |           |
| Vermi-culture                                           | 1              | 18                  | 2         | 20        | 0        | 0        | 0        | 18          | 2         | 20        |
| Mushroom Production                                     | 2              | 34                  | 12        | 46        | 0        | 0        | 0        | 34          | 12        | 46        |
| Bee-keeping                                             |                |                     |           |           |          |          |          |             |           |           |
| Sericulture                                             |                |                     |           |           |          |          |          |             |           |           |
| Repair and maintenance of farm machinery and implements |                |                     |           |           |          |          |          |             |           |           |
| Value addition                                          |                |                     |           |           |          |          |          |             |           |           |
| Small scale processing                                  |                |                     |           |           |          |          |          |             |           |           |
| Post Harvest Technology                                 |                |                     |           |           |          |          |          |             |           |           |
| Tailoring and Stitching                                 |                |                     |           |           |          |          |          |             |           |           |
| Rural Crafts                                            |                |                     |           |           |          |          |          |             |           |           |
| Production of quality animal products                   |                |                     |           |           |          |          |          |             |           |           |
| Dairying                                                |                |                     |           |           |          |          |          |             |           |           |
| Sheep and goat rearing                                  |                |                     |           |           |          |          |          |             |           |           |
| Quail farming                                           |                |                     |           |           |          |          |          |             |           |           |
| Piggery                                                 |                |                     |           |           |          |          |          |             |           |           |
| Rabbit farming                                          |                |                     |           |           |          |          |          |             |           |           |
| Poultry production                                      |                |                     |           |           |          |          |          |             |           |           |
| Ornamental fisheries                                    |                |                     |           |           |          |          |          |             |           |           |
| Composite fish culture                                  |                |                     |           |           |          |          |          |             |           |           |
| Freshwater prawn culture                                |                |                     |           |           |          |          |          |             |           |           |
| Shrimp farming                                          |                |                     |           |           |          |          |          |             |           |           |
| Pearl culture                                           |                |                     |           |           |          |          |          |             |           |           |
| Cold water fisheries                                    |                |                     |           |           |          |          |          |             |           |           |
| Fish harvest and processing technology                  |                |                     |           |           |          |          |          |             |           |           |
| Fry and fingerling rearing                              |                |                     |           |           |          |          |          |             |           |           |
| Any other (pl.specify)                                  |                |                     |           |           |          |          |          |             |           |           |
| <b>TOTAL</b>                                            | <b>3</b>       | <b>52</b>           | <b>14</b> | <b>66</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>52</b>   | <b>14</b> | <b>66</b> |

**7.E. Training programmes for Extension Personnel including sponsored training programmes (on campus)**

| Area of training                                      | No. of Courses | No. of Participants |           |           |          |          |          |             |           |           |
|-------------------------------------------------------|----------------|---------------------|-----------|-----------|----------|----------|----------|-------------|-----------|-----------|
|                                                       |                | General             |           |           | SC/ST    |          |          | Grand Total |           |           |
|                                                       |                | Male                | Female    | Total     | Male     | Female   | Total    | Male        | Female    | Total     |
| Productivity enhancement in field crops               |                |                     |           |           |          |          |          |             |           |           |
| Integrated Pest Management                            |                |                     |           |           |          |          |          |             |           |           |
| Integrated Nutrient management                        |                |                     |           |           |          |          |          |             |           |           |
| Rejuvenation of old orchards                          |                |                     |           |           |          |          |          |             |           |           |
| Protected cultivation technology                      |                |                     |           |           |          |          |          |             |           |           |
| Production and use of organic inputs                  |                |                     |           |           |          |          |          |             |           |           |
| Care and maintenance of farm machinery and implements |                |                     |           |           |          |          |          |             |           |           |
| Gender mainstreaming through SHGs                     |                |                     |           |           |          |          |          |             |           |           |
| Formation and Management of SHGs                      |                |                     |           |           |          |          |          |             |           |           |
| Women and Child care                                  |                |                     |           |           |          |          |          |             |           |           |
| Low cost and nutrient efficient diet designing        |                |                     |           |           |          |          |          |             |           |           |
| Group Dynamics and farmers organization               |                |                     |           |           |          |          |          |             |           |           |
| Information networking among farmers                  |                |                     |           |           |          |          |          |             |           |           |
| Capacity building for ICT application                 |                |                     |           |           |          |          |          |             |           |           |
| Management in farm animals                            |                |                     |           |           |          |          |          |             |           |           |
| Livestock feed and fodder production                  |                |                     |           |           |          |          |          |             |           |           |
| Household food security                               | 1              | 0                   | 68        | 68        | 0        | 0        | 0        | 0           | 68        | 68        |
| Any other (pl.specify)                                |                |                     |           |           |          |          |          |             |           |           |
| <b>Total</b>                                          | <b>1</b>       | <b>0</b>            | <b>68</b> | <b>68</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>    | <b>68</b> | <b>68</b> |



**7.G. Sponsored training programmes conducted**

| S.No.      | Area of training                                  | No. of Courses | No. of Participants |        |       |       |        |       |             |        |       |  |
|------------|---------------------------------------------------|----------------|---------------------|--------|-------|-------|--------|-------|-------------|--------|-------|--|
|            |                                                   |                | General             |        |       | SC/ST |        |       | Grand Total |        |       |  |
|            |                                                   |                | Male                | Female | Total | Male  | Female | Total | Male        | Female | Total |  |
| <b>1</b>   | <b>Crop production and management</b>             |                |                     |        |       |       |        |       |             |        |       |  |
| 1.a.       | Increasing production and productivity of crops   |                |                     |        |       |       |        |       |             |        |       |  |
| 1.b.       | Commercial production of vegetables               |                |                     |        |       |       |        |       |             |        |       |  |
| <b>2</b>   | <b>Production and value addition</b>              |                |                     |        |       |       |        |       |             |        |       |  |
| 2.a.       | Fruit Plants                                      |                |                     |        |       |       |        |       |             |        |       |  |
| 2.b.       | Ornamental plants                                 |                |                     |        |       |       |        |       |             |        |       |  |
| 2.c.       | Spices crops                                      |                |                     |        |       |       |        |       |             |        |       |  |
| <b>3.</b>  | <b>Soil health and fertility management</b>       |                |                     |        |       |       |        |       |             |        |       |  |
| <b>4</b>   | <b>Production of Inputs at site</b>               |                |                     |        |       |       |        |       |             |        |       |  |
| <b>5</b>   | <b>Methods of protective cultivation</b>          |                |                     |        |       |       |        |       |             |        |       |  |
| <b>6</b>   | <b>Others (pl.specify)</b>                        |                |                     |        |       |       |        |       |             |        |       |  |
| <b>7</b>   | <b>Post harvest technology and value addition</b> |                |                     |        |       |       |        |       |             |        |       |  |
| 7.a.       | Processing and value addition                     |                |                     |        |       |       |        |       |             |        |       |  |
| 7.b.       | Others (pl.specify)                               |                |                     |        |       |       |        |       |             |        |       |  |
| <b>8</b>   | <b>Farm machinery</b>                             |                |                     |        |       |       |        |       |             |        |       |  |
| 8.a.       | Farm machinery, tools and implements              |                |                     |        |       |       |        |       |             |        |       |  |
| 8.b.       | Others (pl.specify)                               |                |                     |        |       |       |        |       |             |        |       |  |
| <b>9.</b>  | <b>Livestock and fisheries</b>                    |                |                     |        |       |       |        |       |             |        |       |  |
| <b>10</b>  | <b>Livestock production and management</b>        |                |                     |        |       |       |        |       |             |        |       |  |
| 10.a.      | Animal Nutrition Management                       |                |                     |        |       |       |        |       |             |        |       |  |
| 10.b.      | Animal Disease Management                         |                |                     |        |       |       |        |       |             |        |       |  |
| 10.c.      | Fisheries Nutrition                               |                |                     |        |       |       |        |       |             |        |       |  |
| 10.d.      | Fisheries Management                              |                |                     |        |       |       |        |       |             |        |       |  |
| 10.e.      | Others (pl.specify)                               |                |                     |        |       |       |        |       |             |        |       |  |
| <b>11.</b> | <b>Home Science</b>                               |                |                     |        |       |       |        |       |             |        |       |  |
| 11.a.      | Household nutritional security                    |                |                     |        |       |       |        |       |             |        |       |  |
| 11.b.      | Economic empowerment of women                     |                |                     |        |       |       |        |       |             |        |       |  |
| 11.c.      | Drudgery reduction of women                       |                |                     |        |       |       |        |       |             |        |       |  |
| 11.d.      | Others (pl.specify)                               |                |                     |        |       |       |        |       |             |        |       |  |
| <b>12</b>  | <b>Agri cultural Extension</b>                    |                |                     |        |       |       |        |       |             |        |       |  |
| 12.a.      | Capacity Building and Group Dynamics              |                |                     |        |       |       |        |       |             |        |       |  |
| 12.b.      | Others (pl.specify)                               |                |                     |        |       |       |        |       |             |        |       |  |
|            | <b>Total</b>                                      |                |                     |        |       |       |        |       |             |        |       |  |

**Details of sponsoring agencies involved**

- 1.
- 2.
- 3.



### 7.H. Details of Vocational Training Programmes carried out by KVKs for rural youth

| S.No.     | Area of training                                               | No. of Courses | No. of Participants |        |       |       |        |       |             |        |       |  |  |  |
|-----------|----------------------------------------------------------------|----------------|---------------------|--------|-------|-------|--------|-------|-------------|--------|-------|--|--|--|
|           |                                                                |                | General             |        |       | SC/ST |        |       | Grand Total |        |       |  |  |  |
|           |                                                                |                | Male                | Female | Total | Male  | Female | Total | Male        | Female | Total |  |  |  |
| <b>1</b>  | <b>Crop production and management</b>                          |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 1.a.      | Commercial floriculture                                        |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 1.b.      | Commercial fruit production                                    |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 1.c.      | Commercial vegetable production                                |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 1.d.      | Integrated crop management                                     |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 1.e.      | Organic farming                                                |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 1.f.      | Others (pl.specify)                                            |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| <b>2</b>  | <b>Post harvest technology and value addition</b>              |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 2.a.      | Value addition                                                 |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 2.b.      | Others (pl.specify)                                            |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| <b>3.</b> | <b>Livestock and fisheries</b>                                 |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 3.a.      | Dairy farming                                                  |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 3.b.      | Composite fish culture                                         |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 3.c.      | Sheep and goat rearing                                         |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 3.d.      | Piggery                                                        |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 3.e.      | Poultry farming                                                |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 3.f.      | Others (pl.specify)                                            |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| <b>4.</b> | <b>Income generation activities</b>                            |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 4.a.      | Vermi-composting                                               |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 4.b.      | Production of bio-agents, bio-pesticides, bio-fertilizers etc. |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 4.c.      | Repair and maintenance of farm machinery and implements        |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 4.d.      | Rural Crafts                                                   |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 4.e.      | Seed production                                                |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 4.f.      | Sericulture                                                    |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 4.g.      | Mushroom cultivation                                           |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 4.h.      | Nursery, grafting etc.                                         |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 4.i.      | Tailoring, stitching, embroidery, dyeing etc.                  |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 4.j.      | Agril. para-workers, para-vet training                         |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 4.k.      | Others (pl.specify)                                            |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| <b>5</b>  | <b>Agricultural Extension</b>                                  |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 5.a.      | Capacity building and group dynamics                           |                |                     |        |       |       |        |       |             |        |       |  |  |  |
| 5.b.      | Others (pl.specify)                                            |                |                     |        |       |       |        |       |             |        |       |  |  |  |
|           | <b>Grand Total</b>                                             |                |                     |        |       |       |        |       |             |        |       |  |  |  |

### 7.F. Details of Skill Training Programmes carried out by KVKs under ASCI

| S. No. | Name of Job Role | Date of Start | Date of Close | Total Participants | No. of Participants |        |       |       |        |       |             |        |       | Date of Assessment | No of Participants passed assessment |
|--------|------------------|---------------|---------------|--------------------|---------------------|--------|-------|-------|--------|-------|-------------|--------|-------|--------------------|--------------------------------------|
|        |                  |               |               |                    | General             |        |       | SC/ST |        |       | Grand Total |        |       |                    |                                      |
|        |                  |               |               |                    | Male                | Female | Total | Male  | Female | Total | Male        | Female | Total |                    |                                      |
| 1      | Mushroom Grower  | 22.01.2020    | 15.02.2020    | 20                 | 11                  | 9      | 20    | 0     | 0      | 0     | 11          | 9      | 20    | 23.01.2021         | 19                                   |
| 2.     | Organic Grower   | 10.02.2020    | 06.03.2020    | 20                 | 19                  | 1      | 20    | 0     | 0      | 0     | 19          | 1      | 20    | 21.01.2021         | 18                                   |



Off campus training on Dry land Horticulture at Sajjehosahalli



Off campus training on Dry land Horticulture at Pavagada taluk under SCSP



Off campus training on Pomogranate production at Venkatapura Pavagada



Off Campus training programme on Aloe vera Cultivation at farmers field of Mr Fernandaz at Hirehalli



Off campus training programme on Dryland Horticulture at Bukkapatna



Off campus training on Pomogranate production at venkatapura



Off Campus training programme on Vermi Compost



Off Campus training programme on Mushroom Production



Off Campus training programme on Nutri Garden at Kumbarahalli



Off Campus training programme on Nutri Garden at Badavanahalli



Off Campus training under Tribal sub plan



Off Campus training on Soil Testing and Soil Health Management



Off campus training programme on Coconut coir based bath scrub

## PART VIII – EXTENSION ACTIVITIES(2020)

### 8.1. Extension Programmes (including extension activities undertaken in FLD programmes)

| Nature of Extension Programme           | No. of Programmes | No. of Participants (General) |             |             | No. of Participants SC / ST |            |            | No. of extension personnel |            |            |
|-----------------------------------------|-------------------|-------------------------------|-------------|-------------|-----------------------------|------------|------------|----------------------------|------------|------------|
|                                         |                   | Male                          | Female      | Total       | Male                        | Female     | Total      | Male                       | Female     | Total      |
| Field Day                               | 3                 | 168                           | 85          | 253         | 25                          | 10         | 35         | 8                          | 5          | 13         |
| Kisan Mela                              | 2                 | 700                           | 160         | 860         | 0                           | 0          | 0          | 30                         | 15         | 45         |
| Kisan Ghosthi                           | 1                 | 50                            | 50          | 100         | 0                           | 0          | 0          | 0                          | 0          | 0          |
| Exhibition                              | 2                 | 310                           | 109         | 419         | 0                           | 0          | 0          | 3                          | 0          | 3          |
| Film Show                               | 15                | 380                           | 58          | 438         | 15                          | 08         | 23         | 2                          | 1          | 3          |
| Method Demonstrations                   | 1                 | 24                            | 2           | 26          | 2                           | 3          | 5          | 1                          | 1          | 2          |
| Farmers Seminar                         | 2                 | 0                             | 0           | 0           | 0                           | 0          | 0          | 0                          | 50         | 50         |
| Workshop                                |                   |                               |             |             |                             |            |            |                            |            |            |
| Group meetings                          | 2                 | 30                            | 10          | 40          | 0                           | 0          | 0          | 30                         | 8          | 38         |
| Lectures delivered as resource persons  | 8                 | 489                           | 165         | 654         | 67                          | 60         | 127        | 61                         | 21         | 82         |
| Newspaper coverage                      | 5                 |                               |             |             |                             |            |            |                            |            |            |
| Radio talks                             | 04                |                               |             |             |                             |            |            |                            |            |            |
| TV talks                                | 04                |                               |             |             |                             |            |            |                            |            |            |
| Popular articles                        | 2                 |                               |             |             |                             |            |            |                            |            |            |
| Extension Literature                    |                   |                               |             |             |                             |            |            |                            |            |            |
| Advisory Services                       | 2526              | 1980                          | 280         | 2260        | 200                         | 50         | 250        | 10                         | 6          | 16         |
| Scientific visit to farmers field       | 43                | 229                           | 73          | 302         | 13                          | 19         | 32         | 6                          | 0          | 6          |
| Farmers visit to KVK                    | 312               | 2042                          | 875         | 2917        | 0                           | 0          | 0          | 43                         | 19         | 62         |
| Diagnostic visits                       | 36                | 110                           | 8           | 118         | 5                           | 0          | 5          | 5                          | 0          | 5          |
| Exposure visits                         | 2                 | 0                             | 0           | 0           | 0                           | 0          | 0          | 40                         | 50         | 90         |
| Ex-trainees Sammelan                    | 1                 | 32                            | 7           | 39          | 0                           | 0          | 0          | 0                          | 0          | 0          |
| Soil health Camp                        |                   |                               |             |             |                             |            |            |                            |            |            |
| Animal Health Camp                      |                   |                               |             |             |                             |            |            |                            |            |            |
| Agri mobile clinic                      |                   |                               |             |             |                             |            |            |                            |            |            |
| Soil test campaigns                     |                   |                               |             |             |                             |            |            |                            |            |            |
| Farm Science Club Conveners meet        |                   |                               |             |             |                             |            |            |                            |            |            |
| Self Help Group Conveners meetings      |                   |                               |             |             |                             |            |            |                            |            |            |
| Mahila Mandals Conveners meetings       |                   |                               |             |             |                             |            |            |                            |            |            |
| Celebration of important days (specify) | 5                 | 230                           | 114         | 344         | 8                           | 5          | 13         | 13                         | 16         | 29         |
| Any Other (Specify)                     |                   |                               |             |             |                             |            |            |                            |            |            |
| <b>Total</b>                            | <b>2976</b>       | <b>6774</b>                   | <b>1996</b> | <b>8770</b> | <b>335</b>                  | <b>155</b> | <b>490</b> | <b>252</b>                 | <b>192</b> | <b>444</b> |



Celebration of Farmers day cum Kisan ghosthi was conducted on 23rd Dec, 2020 at KVK, Hirehalli.



World Soil Day Celebration was organized on 5th December, 2020 at Shivanagere village



Field day on Integrated Crop Management in Chilli – Arka Harita



Field day on Fox tail Millet –DHft-109-3 variety



Mahila Kissan Diwas was celebrated at KVK-Hirehalli, Tumakuru



A method demonstration on application of coconut tonic in coconut



Diagnostic Field visit to Problematic field of Drumstick Var. PKM-1



Diagnostic Field visit of Tomato Arka Samrat at Mudigere



Diagnostic Field visit to Coconut and Arecanut orchard



Diagnostic Field visit to Problematic field of Coconut and Arecanut orchard



Gandhi Jayanathi programme was organized at ICAR-KVK, Hirehalli campus



Swach Bharat activity at ICAR-KVK, Hirehalli campus

## 8.2 Special Extension Programmes

| Nature of Extension Programme                  | Date(s) conducted                   | No. of farmers (General) |        |       | No. of farmers SC / ST |        |       | No. of extension personnel |        |       |
|------------------------------------------------|-------------------------------------|--------------------------|--------|-------|------------------------|--------|-------|----------------------------|--------|-------|
|                                                |                                     | Male                     | Female | Total | Male                   | Female | Total | Male                       | Female | Total |
| Jal Shakti Abhiyan                             |                                     |                          |        |       |                        |        |       |                            |        |       |
| Fertilizer Use Awareness Campaign              |                                     |                          |        |       |                        |        |       |                            |        |       |
| National Animal Disease Control Programme      |                                     |                          |        |       |                        |        |       |                            |        |       |
| Tree Plantation Campaign                       | 29.9.2020                           | 15                       | 6      | 21    | 2                      | 2      | 4     | 2                          | 0      | 2     |
| Any other, Pl. specify                         | 22.6.2020                           |                          |        |       | 50                     | 2      | 52    | 5                          | 0      | 5     |
| Awareness programme on tribal sub plan project |                                     |                          |        |       |                        |        |       |                            |        |       |
| Food and Nutrition security                    | 17.7.2020<br>23.7.2020<br>24.7.2020 |                          | 60     | 60    |                        |        |       |                            |        |       |
| PoshanAbhiyan                                  | 16.9.2020                           |                          | 52     | 45    |                        | 8      | 8     |                            |        |       |

**PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIAL (2020)****9.A. Production of seeds by the KVKs**

| Crop category       | Name of the crop                  | Name of the Variety | Quantity of seed (q) | Value (Rs)      | Number of farmers to whom provided |
|---------------------|-----------------------------------|---------------------|----------------------|-----------------|------------------------------------|
| Cereals (crop wise) | Ragi                              | KMR 630             | 6.5                  | 26000           |                                    |
|                     | Navane                            | DHFT 109-3          | 1.02                 | 4080            |                                    |
| Oilseeds            |                                   |                     |                      |                 |                                    |
| Pulses              |                                   |                     |                      |                 |                                    |
| Commercial crops    |                                   |                     |                      |                 |                                    |
| Vegetables          | Okra                              | Arka Anamika        | 0.80                 | 32000           | 14                                 |
| Flower crops        |                                   |                     |                      |                 |                                    |
| Spices              |                                   |                     |                      |                 |                                    |
| Fodder crop seeds   | Fodder sorghum                    | Co(FS)-31           | 0.20                 | 8000            | 12                                 |
| Fiber crops         |                                   |                     |                      |                 |                                    |
| Forest Species      |                                   |                     |                      |                 |                                    |
| Others (specify)    |                                   |                     |                      |                 |                                    |
| Spawn               | Mushroom                          | Oyster              | 13.68                | 102600          | 28                                 |
|                     | Arecanut Seed Nuts (Loose) – Nos. | Hirehalli Tall      | 1200 Nos             | 3600            | 2                                  |
|                     | Arecanut Seed Nuts (Degraded)     | Hirehalli Tall      | 12.33                | 37000           | 1                                  |
|                     | Arecanut Seed Nuts (Auction)      | Hirehalli Tall      | -                    | 6,21,000        | 1                                  |
| <b>Total</b>        |                                   |                     | <b>34.53</b>         | <b>8,34,280</b> | <b>32</b>                          |

**9.B. Production of hybrid seeds by the KVKs**

| Crop category | Name of crop | Name of the hybrid | Quantity of seed (q) | Value (Rs) | Number of farmers to whom provided |
|---------------|--------------|--------------------|----------------------|------------|------------------------------------|
|               |              |                    |                      |            |                                    |
|               |              |                    |                      |            |                                    |
| <b>Total</b>  |              |                    |                      |            |                                    |

### 9.C. Production of planting material by the KVKs

| Crop category          | Name of the crop          | Variety                                     | Hybrid | Number       | Value (Rs.)    | Number of farmers to whom provided |
|------------------------|---------------------------|---------------------------------------------|--------|--------------|----------------|------------------------------------|
| Commercial             |                           |                                             |        |              |                |                                    |
| Vegetable seedlings    |                           |                                             |        |              |                |                                    |
|                        | Drumstick Seedlings       | PKM-1                                       | -      | 2051         | 30765          | 12                                 |
| Fruits                 |                           |                                             |        |              |                |                                    |
|                        | Papaya Seedlings          | ArkaPrabhath                                | -      | 2936         | 35232          | 15                                 |
|                        | Acid lime Seedlings       | Local                                       | -      | 5323         | 372610         | 145                                |
|                        | Tamarind Seedlings        | PKM-1                                       | -      | 800          | 56000          | 32                                 |
|                        | Amla Grafts               | NA7                                         | -      | 1129         | 79030          | 40                                 |
|                        | Guava Grafts              | Allahabad Safed, ArkaMridula and Arka Kiran | -      | 5522         | 386540         | 115                                |
|                        | Jamun Seedlings           | Dhupadala                                   | -      | 290          | 20300          | 22                                 |
|                        | Mango Grafts              | Alphanso, Mallika&Dashehari                 | -      | 3836         | 268520         | 112                                |
|                        | Pomello Seedlings         | Devanahalli Local                           | -      | 881          | 35240          | 135                                |
|                        | Custard Apple Seedlings   | Balnagar                                    | -      | 379          | 26530          | 42                                 |
|                        | Lakshmana Phala Seedlings | Local                                       | -      | 1202         | 48080          | 152                                |
|                        | Rose Apple Seedlings      | Local                                       | -      | 348          | 13920          | 66                                 |
|                        | Cherry Seedlings          | Local                                       | -      | 32           | 1280           | 12                                 |
| Ornamental plants      |                           |                                             |        |              |                |                                    |
| Medicinal and Aromatic |                           |                                             |        |              |                |                                    |
| Plantation             |                           |                                             |        |              |                |                                    |
|                        | Arecanut Seedlings        | Hirehalli Tall                              | -      | 1720         | 68800          | 5                                  |
|                        | Arecanut Sprouts          | Hirehalli Tall                              | -      | 30578        | 214046         | 55                                 |
| Spices                 |                           |                                             |        |              |                |                                    |
| Tuber                  |                           |                                             |        |              |                |                                    |
| Fodder crop saplings   |                           |                                             |        |              |                |                                    |
|                        | Napier Grass Cuttings     | Napier                                      | -      |              |                |                                    |
|                        | Guinea Grass Cuttings     | Guinea                                      | -      |              |                |                                    |
| Forest Species         |                           |                                             |        |              |                |                                    |
| Others(specify)        |                           |                                             |        |              |                |                                    |
|                        | Tamarind Scions           | PKM-1                                       |        | 600          | 1200           | 2                                  |
|                        |                           |                                             |        |              |                |                                    |
|                        |                           |                                             |        |              |                |                                    |
| <b>Total</b>           |                           |                                             |        | <b>52640</b> | <b>1658093</b> | <b>962</b>                         |

### 9.D. Production of hybrid planting materials by the KVKs

| Crop category | Name of crop | Name of the hybrid | Number      | Value (Rs)    | Number of farmers to whom provided |
|---------------|--------------|--------------------|-------------|---------------|------------------------------------|
| Fruits        | Mango        | Mallika            | 1820        | 127400        | 48                                 |
|               |              |                    |             |               |                                    |
| <b>Total</b>  |              |                    | <b>1820</b> | <b>127400</b> | <b>48</b>                          |



## 9.C. Production of Bio-Products

| Bio Products               | Name of the bio-product  | Quantity (q)    | Value (Rs.)    | Number of farmers to whom provided |
|----------------------------|--------------------------|-----------------|----------------|------------------------------------|
| <b>Bio Fertilizers</b>     | AMC powder               | 31.99           | 447860         | 589                                |
|                            | AMC Liquid(100 Litre)    | 42.00           | 1049322        | 394                                |
|                            |                          |                 |                |                                    |
|                            |                          |                 |                |                                    |
| <b>Bio-pesticide</b>       |                          |                 |                |                                    |
|                            | Neem Soap                | 3729            | 969540         | 1243                               |
|                            | Pongamia Soap            | 1408            | 295680         | 591                                |
| <b>Bio-fungicide</b>       |                          |                 |                |                                    |
|                            | Pheromone traps and lure | 10586           | 211720         | 213                                |
| <b>Bio Agents</b>          |                          |                 |                |                                    |
|                            |                          |                 |                |                                    |
|                            |                          |                 |                |                                    |
| <b>Others (specify)</b>    |                          |                 |                |                                    |
|                            | Arka Borer Control       | 418             | 62700          | 64                                 |
| Micro Nutrient Formulation | Banana Special           | 94.60           | 1517520        | 1100                               |
|                            | Vegetable Special        | 18.23           | 299040         | 328                                |
|                            | Mango Special            | 66.25           | 1084530        | 935                                |
|                            | Citrus Special           | 58.45           | 1206440        | 716                                |
| <b>Total</b>               |                          | <b>16452.52</b> | <b>7144352</b> | <b>6173</b>                        |

| Home Science Products | Quantity (Kg.) | Value (Rs.)  | Number of farmers to whom provided |
|-----------------------|----------------|--------------|------------------------------------|
| Amla Candy            | 62             | 18600        | 180                                |
| Amla Squash in Ltrs   | 306            | 39780        | 107                                |
| Ragi Malt             | 162            | 12400        | 126                                |
| Others (specify)      |                |              |                                    |
| <b>Total</b>          | <b>530</b>     | <b>70780</b> | <b>413</b>                         |

## 9.D. Production of livestock

| Particulars of Livestock  | Name of the breed | Number      | Value (Rs.) | Number of farmers to whom provided |
|---------------------------|-------------------|-------------|-------------|------------------------------------|
| <b>Dairy animals</b>      |                   |             |             |                                    |
| Cows & Bulls              | Hallikar          | 7           | 141000      | 7                                  |
| Buffaloes                 |                   |             |             |                                    |
| Calves                    |                   |             |             |                                    |
| Others (Pl. specify)      |                   |             |             |                                    |
| Sheep                     | Bannur            | 01 (30 Kg.) | 9000        | 1                                  |
| <b>Poultry</b>            |                   |             |             |                                    |
| Broilers                  |                   |             |             |                                    |
| Layers                    |                   |             |             |                                    |
| Duals (broiler and layer) |                   |             |             |                                    |
| Japanese Quail            |                   |             |             |                                    |
| Turkey                    |                   |             |             |                                    |
| Emu                       |                   |             |             |                                    |

|                      |  |          |               |          |
|----------------------|--|----------|---------------|----------|
| Ducks                |  |          |               |          |
| Others (Pl. specify) |  |          |               |          |
| <b>Piggery</b>       |  |          |               |          |
| Piglet               |  |          |               |          |
| Others (Pl. specify) |  |          |               |          |
| <b>Fisheries</b>     |  |          |               |          |
| Fingerlings          |  |          |               |          |
| Others (Pl. specify) |  |          |               |          |
| <b>Total</b>         |  | <b>8</b> | <b>150000</b> | <b>8</b> |

**PART X – PUBLICATIONS, SUCCESS STORY, INNOVATIVE METHODOLOGY, ITK, TECHNOLOGY WEEK**

**10. A. Literature Developed/Published (with full title, author & reference)**

(A) KVK Newsletter:

Date of start:\_\_\_\_\_ Periodicity:\_\_\_\_\_ Copies printed in each issue:\_\_\_\_\_

(B) Literature developed/published

| Item                              | Number    |
|-----------------------------------|-----------|
| Research papers- International    | 01        |
| Research papers- National         | 04        |
| Technical reports                 | 06        |
| Technical bulletins               | 01        |
| Popular articles - English        | -         |
| Popular articles – Local language | 06        |
| Extension literature              | 02        |
| Others (Pl. specify)              |           |
| Abstract                          | 02        |
| <b>TOTAL</b>                      | <b>22</b> |

**10.B. Details of Electronic Media Produced**

| S. No. | Type of media                         | Title                                                                                                                                                                                                                                                               | Details                                                                              |
|--------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 1      | CD / DVD                              | ICAR-KVK Hirehalli : A glance Farm pond for Rain water harvesting and improving livelihood of farmers.<br>Renovation of Check dam for recharge of open well and bore well<br><br>Dry land horticulture- Amla (Indian gooseberry for improving livelihood of farmers | Activities of KVK<br><br>Shorts videos                                               |
| 2      | Mobile Apps                           | NIL                                                                                                                                                                                                                                                                 |                                                                                      |
| 3      | Social media groups with KVK as Admin | eHorticulture,WhatsApp Group                                                                                                                                                                                                                                        | Knowledge sharing and diagnosis of pest & disease based on images shared by farmers. |
| 4      | Facebook account name                 | iihrkvk<br><a href="https://www.facebook.com/iihr.kvk">https://www.facebook.com/iihr.kvk</a>                                                                                                                                                                        | Dissemination of IIHR Technologies and KVK Updates and Activities                    |
| 5      | Twitter                               | <a href="https://twitter.com/iihrkvk">https://twitter.com/iihrkvk</a>                                                                                                                                                                                               | Dissemination of IIHR Technologies and KVK Updates and Activities                    |
| 6      | Instagram account name                | kvkihr                                                                                                                                                                                                                                                              | Dissemination of IIHR Technologies and KVK Updates and Activities                    |

**10.C. 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).**

**1. Title :** Economic empowerment by adoption of High value crops by using rain water harvested through Farm Pond and recharged open well.

**Introduction:** Mr.Kemparaju is a 25 years old small farmer from the village Durgada Nagenahalli in Korategere taluk of Tumakuru District, Karnataka. Few years before he used to cultivate groundnut and finger millet in his 1.75 acre land. He never tried his luck in highly remunerative crops like vegetables and flowers owing to the lack of the scarce resource – water. Though he had an open well, water was not sufficient for these water intensive crops, refraining him to get any additional income.

Krishi Vigyan Kendra, Hirehalli, Tumakuru, encouraged him to go for a farm pond under NICRA (National Innovation in Climate Resilient Agriculture) Project supported by ICAR-CRIDA (Indian Council of Agricultural Research - Central Research Institute for Dryland Agriculture), Hyderabad through Zonal Project Directorate – VIII, Bengaluru. Initially he was reluctant, considering the loss of area. But, after consultation with the KVK staff, finally he agreed on realizing the benefit out of this intervention. Incidentally, there was an old boulder check dam along a water channel adjacent to his field. So, it was decided to renovate that check dam by desilting the water channel, stone pitching and heightening its walls with concrete measures. The idea was to improve the water holding capacity of the structure and divert the excess water stored, into a dug out pond. A farm pond of 40m X 12m X 3 m was dug up within his field with a capacity of about 1400 cum. This pond occupied about 0.15 acre of his land.

Though the year 2014 was comparatively better with higher rain fall (54% in June, 66% in Aug and 76% in Sep, than the previous year), there were mid season dry spells in between. From June 22<sup>nd</sup> (6.0 mm) to July 11<sup>th</sup> (31.0 mm), there was no rain at all. So, drought tolerant varieties in crops like finger millet and groundnut could sustain this dry spells, but none can think of going for vegetables. At the same time, the potential of a good monsoon (95.0 mm in June and 71.1 mm in July) could not have been tapped fully, unless the rain water was harvested properly. So, if a proper rain water harvesting structure is established, there could be a good chance of irrigating additional remunerative crops.

In previous years, he used to get a net profit of about Rs.14,000 from groundnut and finger millet in his field. In the year 2013, when he started harvesting rain water and cultivating tomato crop (in 0.5 acre), the net income from tomato was about Rs.22,000. This is in addition to the income of about Rs.10,000 from finger millet and groundnut in the remaining areas (1.10 acres). Gaining the confidence from this venture, in the year 2014, he extended his area of vegetable crops from 0.5 to 1 acre. By this, the additional income reached above Rs.50,000 from Tomato, Carrot and Aster flower in this area.

| <b>Before NICRA</b> |                    |              |                   |                            |                          |                  |
|---------------------|--------------------|--------------|-------------------|----------------------------|--------------------------|------------------|
| <b>Crop</b>         | <b>Area (acre)</b> | <b>Yield</b> | <b>Cost (Rs.)</b> | <b>Gross benefit (Rs.)</b> | <b>Net benefit (Rs.)</b> | <b>B:C ratio</b> |
| Finger millet       | 1.0                | 8 q          | 5,200             | 12,000                     | 6,800                    | 2.3              |
| Groundnut           | 0.75               | 3.8 q        | 2,800             | 9,800                      | 7,080                    | 3.5              |
|                     |                    | <b>Total</b> | <b>12000</b>      | <b>41800</b>               | <b>13880</b>             |                  |
| <b>After NICRA</b>  |                    |              |                   |                            |                          |                  |
| <b>Crop</b>         | <b>Area (acre)</b> | <b>Yield</b> | <b>Cost (Rs.)</b> | <b>Gross benefit (Rs.)</b> | <b>Net benefit (Rs.)</b> | <b>B:C ratio</b> |
| Aster               | 0.4                | 8.5 q        | 6,100             | 20,400                     | 14,300                   | 3.3              |
| Tomato              | 0.4                | 1.7 t        | 5,850             | 25,500                     | 19,650                   | 4.3              |
| Carrot              | 0.2                | 1.2 t        | 4,550             | 24,000                     | 19,450                   | 5.3              |
|                     |                    | <b>Total</b> | <b>21500</b>      | <b>104900</b>              | <b>53400</b>             |                  |

He was Involved as a Committee Member in the *Prime Minister Krishi Sinchay Yojana* (PMKSY) programme of GOI in the State Department of Agriculture, Tumakuru and participated in the regular meetings organized by District Magistrate, Tumakuru in this regard. He was also involved as a Committee Member in the *Prime Minister Bima Fasal Yojana* (PMBMY) programme of GOI in the State Department of Horticulture, Tumakuru and participated in the regular meetings organized by District Magistrate, Tumakuru



**Farm Pond- Rain water harvesting Open well recharged from Farm PondChina Aster Demo Plot**

## 2. Title :Successful Entrepreneurs: Hallisri SHG

**Introduction:** Finger Millet is the main staple food consumed by majority of the people in South Karnataka as it is major source of dietary carbohydrates. This is comparable to rice with regard to protein and fat and is superior to rice and wheat with respect to mineral and micronutrient contents. In order to develop the value added food products based on Finger Millet, that can able to enrich the nutritional value and also beneficial for good health is the current need for the wellbeing of the society. Value addition and helps in creating jobs and thus plays a crucial role in the economic progress in the rural areas. In view of this, demonstrations were undertaken to enhance the income of finger millet growing farmers by increasing productivity by using improved varieties and strengthening the capacity of farming community for processing, value addition and market linkage.

ICAR- Krishi Vigyan Kendra (IIHR) Tumakuru had conducted EDP programme on Processing, Value addition, Branding and Market linkage in Finger Millet. To enhance the income of finger millet growing farmers by increasing productivity and for strengthening the capacity of farming community for value addition and marketing of value added products, demonstration was undertaken on EDP mode during 2016-17. Initially Active women self-help groups are identified and a series of training programmes were arranged to give hand-on experience on preparation of Finger Millet products (Finger Millet Malt, Finger Millet mixtures, Finger Millet laddu, etc), quality control measures, labelling and marketing linkage of the products. This was demonstrated to HallisriSHG groups at Thovinakere of Koratagere Taluk.

The result of value added products from Finger Millet showed that, groups received higher income compared to selling Finger Millet as it is. There has been an increase in the interest of other group members to take up processing and value addition to Finger Millet as an income generation and entrepreneurial activity. The benefit cost ratio of different value added products ranges from 1.55 to 1.66, here just by processing and value addition the profit margin is up to 1.66 times and demand for these products is also more.

| Sl no | Products name      | Cost/ kg | Qty produced in kg | Gross cost (Rs) | Gross income(Rs) | Net Income(Rs) | B:C Ratio |
|-------|--------------------|----------|--------------------|-----------------|------------------|----------------|-----------|
| 1     | Finger Millet malt | 200      | 200                | 18000           | 40000            | 22000          | 2.22      |

|   |                        |     |     |       |       |       |      |
|---|------------------------|-----|-----|-------|-------|-------|------|
| 2 | Finger Millet Laddu    | 280 | 100 | 18000 | 28000 | 10000 | 1.55 |
| 3 | Finger Millet Mixture  | 200 | 50  | 6000  | 10000 | 3500  | 1.66 |
| 4 | Finger Millet chakkali | 180 | 100 | 11200 | 18000 | 3200  | 1.60 |

The value added products of Finger Millet were first commercialized by the SHGs during Krishi Melas, meetings, training programmes organized by different government organizations and private organizations. Now they are preparing and giving to organic shops in Tumakuru as and when the order comes.



Display exhibits at Organic Millet Mela at Tumkur

### 3. Title: Success story of Mushroom grower

**Introduction :** Mr. Raghavendra, 30 years old person is involved in mushroom cultivation from last 2-3 years. He resides in Ammasandra village of Turuvekere taluk in Tumakuru district. Before starting mushroom cultivation, being a diploma graduate, earlier he was working in a private company in Bengaluru. Then he thought of doing something new independently instead of working under the control of some one. Initially he started cultivating oyster mushroom in small shed. Later he came into contact with ICAR-KVK, Hirehalli through his relative who was also a mushroom grower and buyer of spawn from our Krishi Vigyan Kendra.

Mr Raghavendra attended 25 days skill training programme on Mushroom grower under ASCI-skill Council of India programme during 2019-20 at Krishi Vigyan Kendra, Hirehalli. Then he established his mushroom cultivation unit in a bigger way. He started cultivating Oyster mushroom in two bigger units with partnership. Initially He was able to produce 15- 20 kgs of mushroom. Later he started to produce 200-300 kg of mushroom per month. He started to send mushroom to Bengaluru for marketing. Now he started selling the mushroom in Tumakuru city through an entrepreneur lady who sells food products with a brand name of "Aishwarya Products". With this self-employment he is earning nearly Rs. 25000/- to Rs. 30000/- per month.

Mr Raghavendra wants to expand his mushroom further and he is working hard on that. He believes that getting associated with mushroom is the best thing that has happened to him. "My earnings are good and I am happy. I want to expand it further. Mushroom cultivation has helped me support my family and changed my life" he said. He encourages others to take up mushroom cultivation too. He is an inspiration for many other mushroom farmers. His success story has been a source of motivation for a lot of people to take up mushroom cultivation as a means of livelihood.



**Mushroom Production Unit**

**10.D. Give details of Innovative Methodology or Innovative Approach of Transfer of Technology developed and used during the year**

**Arka Borer Control (ABC)** is an organic formulation in paste form developed by ICAR-Indian Institute of Horticultural Research, Bengaluru to manage tree borers especially mango borer. The formulation is non-toxic, non-poisonous to humans, animals and as well to the other fauna and flora in eco system.

ABC was licensed during the year 2019-20 by our KVK and produced in large scale and supplied to farmers through out the country. So far we have produced 856 Kgs and sold to the farmers.

**Arka Mushroom Fortified Rasam Powder** is an instant rasam mix. This has been standardized with an objective to add nutrition to a daily diet product 'Rasam' used daily in every South Indian home. Daily intake of mushroom fortified instant rasam mix will not only help in enhancing nutrition but can also enhance income of rural women who can start an entrepreneurial activity of producing this as cottage industry. Since the mushroom fortified instant rasam mix is made from dehydrated oyster mushrooms; it can be an important technology to solve the short life of oyster mushrooms and enhance oyster mushroom production in India. This technology was licensed during the year 2019-20 by our KVK from ICAR-IIHR. The benefits of this technology is being shared during the training programmes.

**Sales Software system:** To support KVK Sales activity, a sales software was introduced in 2019-20. The licenses was purchased and activated during the July 2020. The facility includes the barcoding system. It helps in speedy process of sales of KVK Products on daily basis. This also helps in preparing the bills in quick time, hassle-free transaction, easy to maintain the accounts and availability of sales data and other details for verifying and documenting for administrative and other academic usages.

**Farmer Innovations:** ICAR- ATARI Bengaluru has made an effort to document farmers' innovations in the form of a publication "Reimagining Agriculture: Farmer Innovations", for the benefit of everyone in the farming system. This document collates the efforts of farm innovators in the thematic area of nursery management (2), varietal development, cropping system (3), resource management (3), livestock management (5), fodder production (3), processing and value addition (4), wild life management (3), and farm mechanization (11). A total of 35 profiles of innovators are presented by 22 KVKs across Karnataka. Each one throws light on their simple yet useful ideas and innovative practices. Scientists of KVK, Hirehalli, have involved in collecting the details of the innovations and the innovators for this publication.

**10.E. Give details of Indigenous Technical Knowledge 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 | Scientific Rationale |
|--------|-------------------|---------------|----------------|----------------------|
|        |                   |               |                |                      |

**10 F. Technology Week celebration during 2020:**

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

Other Details

| Types of Activities                                 | No. of Activities | Number of Farmers | Related crop/livestock technology |
|-----------------------------------------------------|-------------------|-------------------|-----------------------------------|
| Gosthies                                            |                   |                   |                                   |
| Lectures organized                                  |                   |                   |                                   |
| Exhibition                                          |                   |                   |                                   |
| Film show                                           |                   |                   |                                   |
| Fair                                                |                   |                   |                                   |
| Farm Visit                                          |                   |                   |                                   |
| Diagnostic Practicals                               |                   |                   |                                   |
| Supply of Literature (No.)                          |                   |                   |                                   |
| Supply of Seed (q)                                  |                   |                   |                                   |
| Supply of Planting materials (No.)                  |                   |                   |                                   |
| Bio Product supply (Kg)                             |                   |                   |                                   |
| Bio Fertilizers (q)                                 |                   |                   |                                   |
| Supply of fingerlings                               |                   |                   |                                   |
| Supply of Livestock specimen (No.)                  |                   |                   |                                   |
| Total number of farmers visited the technology week |                   |                   |                                   |

**10 E. Recognition and Awards:** Please give details about National and State level recognition and awards

Mr.Srinivas Reddy, Pavagada Progressive Farmer awarded during Farmers Day 2020.



Ms. Gowamma Veerabhadriah, Chikkahalli Received Best Farmer Award for Tumakuru Taluk Krishi Mela-2020 at GKVK Bengaluru



## PART XI – SOIL AND WATER TEST

### 11.1 Soil and Water Testing Laboratory

#### A. Status of establishment of Lab :

1. Year of establishment :2014
2. List of equipments purchased with amount :

| Sl. No | Name of the Equipment                                                         | Qty.               | Cost      | Status  |
|--------|-------------------------------------------------------------------------------|--------------------|-----------|---------|
| 1      | Spectrophotometer with accessories                                            | 1                  | 1,81,260  | Working |
| 2      | Flame photometer                                                              | 1                  | 53,238    | Working |
| 3      | Analytical balance                                                            | 1                  | 28,625    | Working |
| 4      | Nitrogen Analyzer (Kjeldahl digestion and distillation unit) with spare parts | 1                  | 1,79,879  | Working |
| 5      | Shaker                                                                        | 1                  | 45,800    | Working |
| 6      | Refrigerator                                                                  | 1                  | 40,200    | Working |
| 7      | Oven                                                                          | 1                  | 60,456    | Working |
| 8      | Hot plate                                                                     | 1                  | 18,893    | Working |
| 9      | Digestion fume chamber                                                        | 1                  | 99,501    | Working |
| 10     | Atomic Absorption Spectrophotometer                                           | 1                  | 10,00,000 | Working |
| 11     | Centrifuge                                                                    | 1                  | 58,404    | Working |
| 12     | Glassware and miscellanies                                                    | -                  | 99,258    | -       |
| 13     | Chemicals                                                                     | -                  | 1,34,465  | -       |
| Total  |                                                                               | 19,99,979          |           |         |
| Sl. No | Name of the Equipment                                                         | Qty.               | Cost      | Status  |
| 1      | Spectrophotometer with accessories                                            | 1                  | 1,81,260  | Working |
| 2      | Flame photometer                                                              | 1                  | 53,238    | Working |
| 3      |                                                                               | Analytical balance | 1         | 28,625  |

#### B. Details of samples analyzed since establishment of SWTL:

| Details          | No. of Samples analyzed | No. of Farmers benefited | No. of Villages | Amount realized (Rs.) |
|------------------|-------------------------|--------------------------|-----------------|-----------------------|
| Soil Samples     | 12,841                  | 10,645                   | 2,398           | 19,37,830             |
| Water Samples    | 7,136                   | 6,054                    | 1,651           | 5,71,250              |
| Plant samples    | 260                     | 47                       | 26              | 42,100                |
| Manure samples   | -                       | -                        | -               | -                     |
| Others (specify) | -                       | -                        | -               | -                     |
| <b>Total</b>     | <b>20,237</b>           | <b>16,746</b>            | <b>4,075</b>    | <b>25,51,180</b>      |

#### C. Details of samples analyzed during the 2020:

| Details          | No. of Samples analyzed | No. of Farmers benefited | No. of Villages |
|------------------|-------------------------|--------------------------|-----------------|
| Soil Samples     | 958                     | 538                      | 125             |
| Water Samples    | 378                     | 323                      | 91              |
| Plant samples    | 18                      | 7                        | 3               |
| Others (specify) | 0                       | 0                        | 0               |
| <b>Total</b>     | <b>1,354</b>            | <b>868</b>               | <b>219</b>      |

### 11.2 Mobile Soil Testing Kit

#### A. Date of purchase and current status

| Mobile Kits              | Date of purchase | Current status |
|--------------------------|------------------|----------------|
| 1. Mini Soil Testing Lab | 01.03.2017       | Not working    |
|                          |                  |                |

#### B. Details of soil samples analyzed during 2019 and since establishment with Mobile Soil Testing Kit:

|                         | During 2019 | During 2020 | Cumulative (Total) | progress |
|-------------------------|-------------|-------------|--------------------|----------|
| Samples analyzed (No.)  | 0           | 0           | 306                |          |
| Farmers benefited (No.) | 0           | 0           | 257                |          |
| Villages covered (No.)  | 0           | 0           | 63                 |          |

### 11.3 Details of soil health cards issued based on SWTL & Mobile Soil Testing Kit during 2020:

| Particulars             | Date (s) | Villages (No.) | Farmers (No.) | Samples analyzed (No.) | Soil health cards issued (No.) |
|-------------------------|----------|----------------|---------------|------------------------|--------------------------------|
| SWTL                    |          | 125            | 538           | 958                    | 958                            |
| Mobile Soil Testing Kit | 0        | 0              | 0             | 0                      | 0                              |

### 11.4 World Soil Health Day celebration

| Sl. No. | Farmers participated (No.) | Soil health cards issued (No.) | VIPs (MP/ Minister/MLA attended (No.)) | Other Public Representatives participated | Officials participated (No.) | Media coverage (No.) |
|---------|----------------------------|--------------------------------|----------------------------------------|-------------------------------------------|------------------------------|----------------------|
| 1       | 50                         | 250                            | NIL                                    | 2                                         | 2                            | 0                    |

## PART XII. IMPACT

### 12.A. Impact of KVK activities (Not 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) |
|                                               |                     |               |                        |                  |

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

### 12.B. Cases of large scale adoption (Please furnish detailed information for each case with suitable photographs)

#### Enhancement of yield by replacing the old variety with new high yielding one in groundnut crop under NMOOP project:

Pavagada is known to be Groundnut hub in Tumakuru district. Groundnut is grown in area of 30,000 hectares. Incidentally, TMV-2 is the only variety which is grown since last 50 years. It is believed by the local farmers as a drought tolerant variety. Hence farmers are growing this variety in spite of its low yield. Krishi Vigyan Kendra, Hirehalli has made a concentrated efforts to introduce a new variety called K-6. This is drought tolerant, short duration and high yielding, compared to existing TMV-2. Under National Mission on oil seeds and oil palm (NMOOP), Front Line demonstration were conducted from 2017-18. It was

conducted in cluster mode with 50 hectares, covering 125 farmers in total. The demonstration plot recorded the higher yield of 10.98 qtls/ha, compared to TMV-2 variety(8.89 qtl./ha) and highest B.C ratio (1.90) was also recorded in demonstration plot.

| Crop        | Variety | Demo area (ha) | Farmers (No.) | Yield (qtl/ha) |             | Net returns (Rs./ha) |              | BCR         |             |
|-------------|---------|----------------|---------------|----------------|-------------|----------------------|--------------|-------------|-------------|
|             |         |                |               | Demo           | Check       | Demo                 | Check        | Demo        | Check       |
| 2017-18     | K6      | 50             | 125           | 10.70          | 8.84        | 24180                | 16773        | 2.00        | 1.73        |
| 2018-19     | K6      | 50             | 125           | 8.98           | 6.66        | 20906                | 11304        | 2.54        | 2.20        |
| <b>Mean</b> |         |                |               | <b>10.98</b>   | <b>8.89</b> | <b>21612</b>         | <b>14850</b> | <b>2.19</b> | <b>1.90</b> |

As a result of this intervention, groundnut area under K-6 variety has increased to 8,900 hectare with the span of three years.



### Addressing Drought Vulnerability by Drought tolerant Ragi ML -365

**Preamble:**Ragi (Eleusinecoracona) is also called as Finger millet. Ragi is the main staple food consumed by majority of the people in South Karnataka. Ragi is grown as rainfed as well as irrigated crop, mostly cultivated by poor and marginal farmers, as it is most nutritious among all cereals and grown as pure crop as well as intercrop with pulses. Ragi is rich in carbohydrates, calcium, fibre, protein and vitamins, contains slow releasing carbohydrates and provides continuous energy and is being promoted as food for diabetics. Ragi is grown in 1.8 million ha with average yield of 13 q / ha in India and 9.16 lakh ha with average yield of 16 q / ha in Karnataka. Ragi is grown in 1.87 lakh ha in Tumakuru district, with an average yield of 18 q / ha, which is comparatively low yield. The main reasons for low productivity are delayed on set of monsoon, low rain fall, erratic rain fall, dry spells, high temperature and non-availability and non-adoption of drought tolerant and high yielding variety.

**Input :**ICAR- Krishi Vigyan Kendra (IIHR) Tumakuru-had conducted front line demonstration of Ragi ML-365 variety in 25 ha covering 62 farmers at 5 taluks Viz., Tumkur, Sira, Koratagere, Madhugiri and Pavagada taluks of Tumakuru district from 2011 to 2018 as an alternative to the local GutteRagi. The villages selected are vulnerable to climatic variability like drought, dry spells and extreme temperature. The specific characteristics of the Ragi ML-365 variety are short duration (about 105 days), medium plant height, high grain and fodder yielding, resistant to leaf spot, neck blast disease and lodging, good cooking quality, suitable for dryland agriculture and late sowing.

**Outcome:**The average yield of Ragi ML365 (26 q/ha) is high compared to the local GutteRagi (19 q/ha). Ragi ML-365 grain yield per ha was 7 q higher over local GutteRagi. Ragi ML-365 gave higher net income (Rs. 30,000/-) compared to local GutteRagi (Rs. 16,500/-) per ha and generated additional income of Rs.13,500/- per ha as shown in Table. The results showed an increase of 36.84% over the yield of local GutteRagi variety and additional income increased to 81.81% and also reduced the leaf spot and neck blast disease

| Particulars   | Avg. Plant height (cm) | Avg. Panicle weight (g) | Avg. Yield ( q/ha) | % Increase | Gross Cost (Rs./ha) | Gross Returns (Rs./ha) | Net returns (Rs./ha) | B:C ratio |
|---------------|------------------------|-------------------------|--------------------|------------|---------------------|------------------------|----------------------|-----------|
| Demonstration | 99.6                   | 26.8                    | 26.44              | 36.2       | 15,678              | 30,450                 | 14,772               | 1.94      |
| Check         | 63.2                   | 19.4                    | 19.4               |            | 14,448              | 23,162                 | 8,714                | 1.60      |

**Impact :**The Ragi ML-365 variety performed superior to the existing Local GutteRagi at DurgadaNagenahalli due to resistance to drought and blast. It was also performed well when adopted during delayed monsoon. The variety was up scaled in Tumakuru District through Department of Agriculture, Tumakuru. Ragi ML-365 was cultivated in 3,200 ha in Tumakuru District during 2017-18. Additional production of 22,400 q gave net income Rs. 4.32 crore and benefitted about 8,000 farmers.



Ragi – ML 365



Gutte Ragi local

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

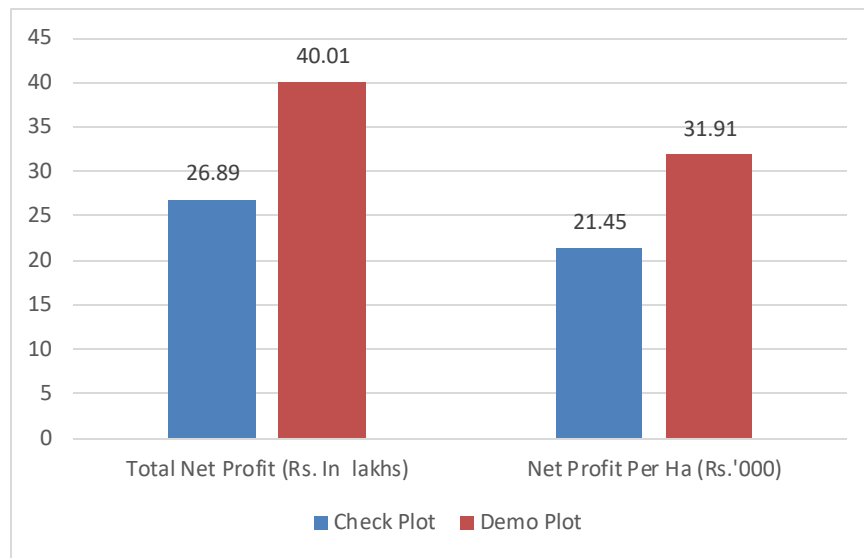
The economic benefits of major FLDs conducted during 2015-2020 was analysed, considering the yield and economic parameters as given blow.

### Economics of major Front Line Demonstrations (Crops/Enterprise) during 2015-16 to 2019-20

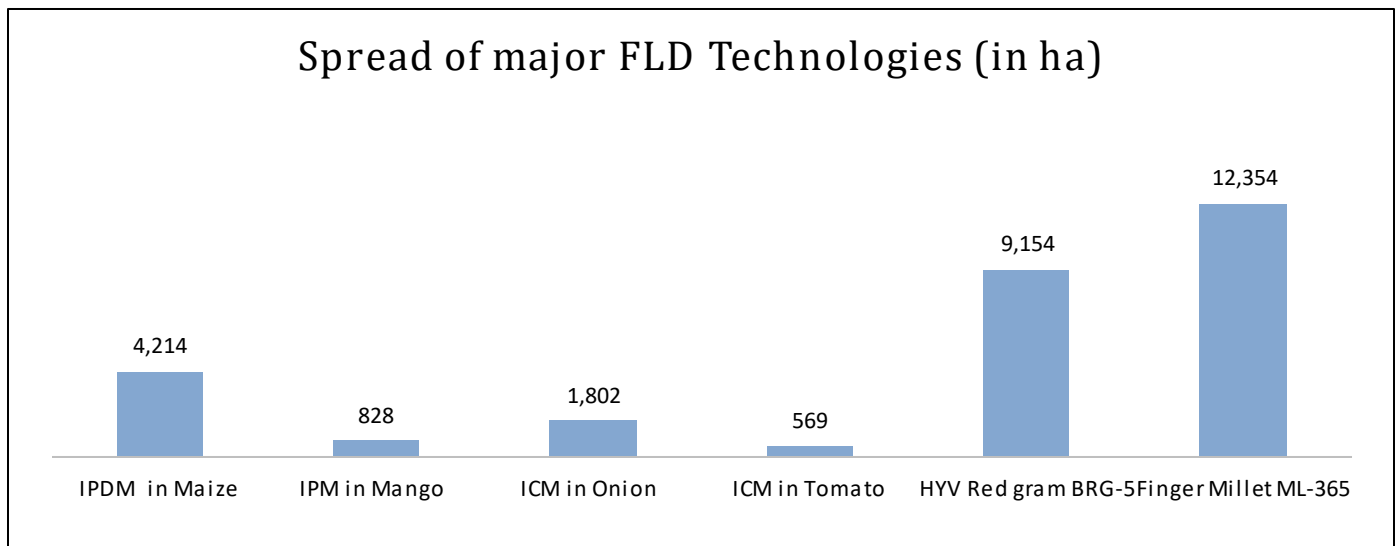
| Sl No | Name of the Demonstration                                         | Demo area (ha) | Farmers (No.) | Yield (q/ha) |            |              | Net returns (Rs./ha) |          | BCR  |       |
|-------|-------------------------------------------------------------------|----------------|---------------|--------------|------------|--------------|----------------------|----------|------|-------|
|       |                                                                   |                |               | Demo         | Check      | Increase (%) | Demo                 | Check    | Demo | Check |
| 1     | High Yielding Variety K-6 in Groundnut                            | 6              | 8             | 10.70        | 8.84       | 17.38        | 24,180               | 16,773   | 2.00 | 1.73  |
| 2     | Drought Management variety ML-365 in Finger Millet                | 10             | 30            | 29.80        | 22.75      | 30.90        | 21730                | 13920    | 1.80 | 1.60  |
| 3     | High Yielding Variety BRG-5 in Red gram                           | 20             | 50            | 11.68        | 8.18       | 42.78        | 70089                | 40885    | 2.49 | 2.00  |
| 4     | High Yielding Variety Arka Rakshak in Tomato                      | 4              | 10            | 276.20       | 183.60     | 33.52        | 121652               | 63590    | 3.75 | 2.36  |
| 5     | ICM in Tomato                                                     | 2              | 8             | 746.00       | 652.00     | 14.40        | 252850               | 186850   | 4.05 | 3.50  |
| 6     | ICM in Onion                                                      | 8              | 20            | 253.40       | 177.40     | 42.84        | 156840               | 80820    | 2.72 | 1.91  |
| 7     | ICM in Pomegranate                                                | 10             | 20            | 125.00       | 95.00      | 31.50        | 845000               | 604600   | 5.80 | 5.10  |
| 9     | PHT in Mango                                                      | 20             | 4 Groups      | 8            | 6          | 33.33        | 230000               | 100000   | 3.55 | 2.35  |
| 10    | ICM in China Aster                                                | 3              | 10            | 4.50         | 3.20       | 40.60        | 99725                | 65600    | 3.83 | 3.14  |
| 11    | Use of AMC in Betlevine                                           | 4              | 20            | 2.90 lakhs   | 2.40 lakhs | 20.80        | 34040                | 11500    | 1.90 | 1.30  |
| 12    | ICM in Marigold                                                   | 0.4            | 5             | 56.00        | 46.60      | 20.17        | 140450               | 130020   | 4.60 | 3.80  |
| 13    | IPDM in Jasmine                                                   | 2              | 10            | 66.45        | 40.89      | 62.50        | 242804               | 107214   | 3.71 | 2.10  |
| 14    | Wild Boar Management in Groundnut                                 | 4              | 10            | 3.84         | 2.94       | 28.85        | 5508                 | 2544     | 1.38 | 1.19  |
| 15    | IPDM in Maize                                                     | 10             | 20            | 35           | 28         | 25           | 27000                | 20200    | 2.45 | 2.24  |
| 16    | ICM in Tomato Arka Samrat                                         | 2              | 10            | 612          | 539        | 13.5         | 232550               | 185520   | 4.17 | 3.20  |
| 17    | Organic farming in French Bean                                    | 4              | 10            | 45           | 36         | 25           | 95000                | 69500    | 5.8  | 3.7   |
| 18    | Nutrition garden                                                  | -              | 10            | 4.50         | 0          | 100          | 11300                | 0        | 1.40 | 0     |
| 19    | Demonstration on fodder CoFS-29 sorghum                           | 4              | 10            | 105.4        | 82.40      | 27.83        | 9461                 | 5528     | 2.1  | 0     |
| 20    | Demonstration of water saving Aerobic Paddy Paustic-9             | 1              | 5             | 34.1         | 27.60      | 23.5         | 26323                | 16378    | 2.07 | 1.63  |
| 21    | ICM in -Bhendi                                                    | 2              | 5             | 206.62       | 178.84     | 15.53        | 126060               | 92276.00 | 2.56 | 2.07  |
| 22    | ICM in French Bean -Arka Arjun                                    | 1              | 5             | 78           | 62.70      | 24.40        | 1,19,304             | 87518    | 4.24 | 3.31  |
| 23    | ICM in Chilli – Arka harita                                       | 1              | 5             | 224.90       | 177.50     | 26.70        | 211940               | 157080   | 4.65 | 3.8   |
| 24    | ICM in China aster – Arka Archana                                 | 1              | 5             | 74.3         | 60.8       | 22.2         | 99420                | 72626    | 3.9  | 2.97  |
| 25    | Demonstration on Arka Actino plus in Pomegranate                  | 1              | 5             | 96           | 81         | 18.50        | 578850               | 380100   | 7.2  | 3.40  |
| 26    | Demonstration of Aromatic crop- Lemon grass – Krishna             | 1              | 1             | 83.6         | -          | -            | 37970                | -        | 2.44 | -     |
| 27    | Demonstration of Aromatic crop- Palmrosa- PRC 1                   | 1              | 1             | 204.0        | -          | -            | 82300                | -        | 3.51 | -     |
| 28    | Demonstration of Finger millet Variety KMR 340 for Value Addition | 2              | 5             | 23.6         | 19.2       | 22.92        | 49,668               | 54,200   | 2.35 | 1.72  |
| 29    | ICM In Arecanut                                                   | 1              | 5             | 10.90        | 9.40       | 15.90        | 168250               | 124100   | 3.04 | 2.68  |

On analysing the above table, following points of interoperations have been arrived

- About 320 farmers were involved in FLDs in the last five years, covering an area of about 125 ha (On an average 0.4 ha per farmer).
- The total net profit that these farmers obtained by following the KVK's FLDs in the above mentioned technologies is Rs.40.01 lakhs. Whereas the total net profit in the check is Rs.26.89 lakhs. The increase in net profit in demo plots is 49% more than the check plots.
- If we calculate the net profit on per ha basis, it is Rs. 31,905 in demo plots, more than Rs.10,000 compared to check plots (Rs.21,446)
- The technologies demonstrated in about six FLDs have reached more than 500 ha within the district, as per the feedback form line department staff, as mentioned in the graph below.



### Spread of major FLD Technologies (in ha)



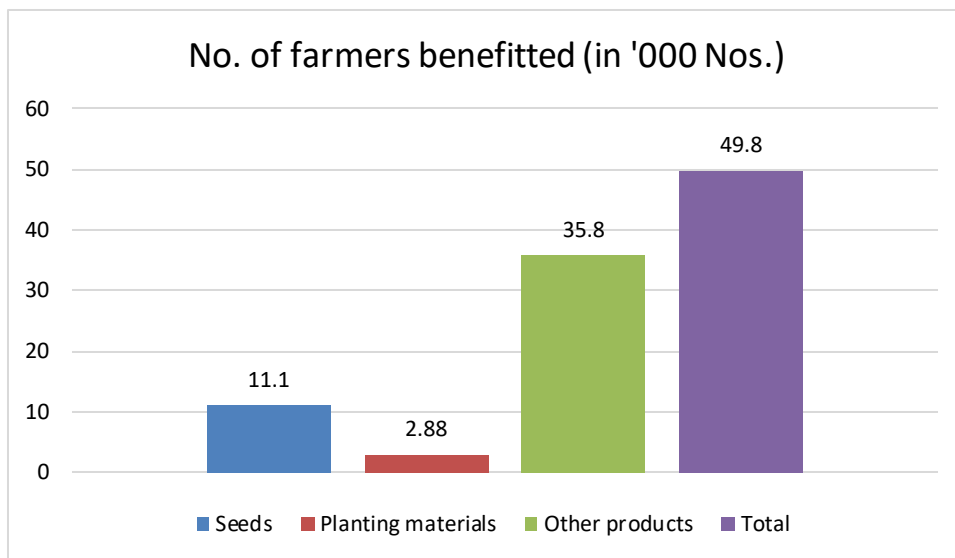
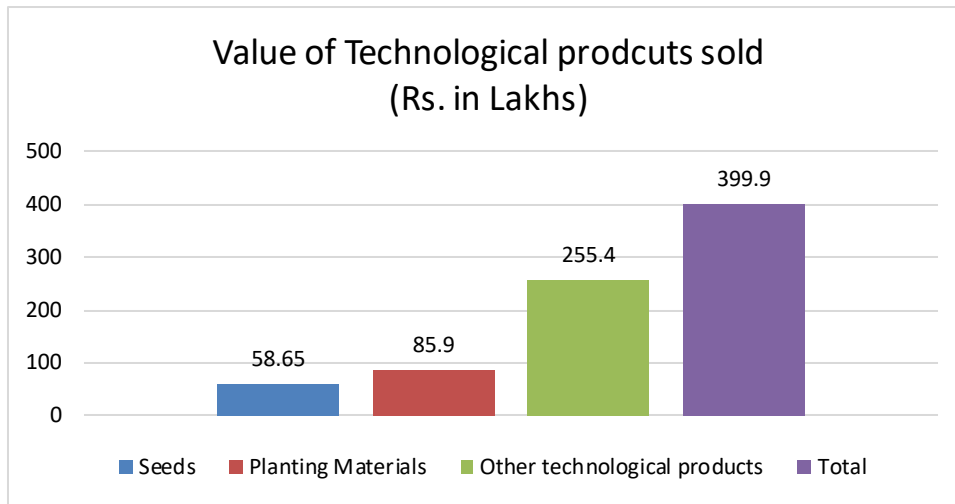
KVK is involved with production of various seeds, planting materials and technological products. Given below is the table that describes the quantity produced, their value and farmers benefitted in the past five years.

### Technology Products produced and made available to farming community (2015-2020)

| Particulars                       | Years       |             |             |              |             |             |             |             |              |              |             |              |             |             |              |           |              |             |
|-----------------------------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|--------------|-------------|-------------|--------------|-----------|--------------|-------------|
|                                   | 2015-16     |             |             | 2016-17      |             |             | 2017-18     |             |              | 2018-19      |             |              | 2019-20     |             |              | Total     |              |             |
|                                   | Q           | V           | N           | Q            | V           | N           | Q           | V           | N            | Q            | V           | N            | Q           | V           | N            | Q         | V            | N           |
| Seeds (Qty-tonnes)                | 6.9         | 8.7         | 0.87        | 2.5          | 9.3         | 2.03        | 2.6         | 5.2         | 7.29         | 7.4          | 18.7        | 4.81         | 6.8         | 16.7        | 2.7          | 26.3      | 58.65        | 11.1        |
| Planting Materials (Qty-'000 Nos) | 25.9        | 4.6         | 0.65        | 102          | 31.3        | 0.36        | 91.5        | 23.1        | 0.10         | 59.89        | 15.3        | 0.47         | 40.8        | 11.6        | 0.38         | 320.1     | 85.9         | 2.88        |
| * Other Products                  | --          | 53.2        | 7.86        | --           | 4.86        | 5.17        | --          | 57.3        | 4.95         | --           | 78.0        | 8.63         | --          | 62.0        | 9.17         | --        | 255.4        | 35.8        |
| <b>Total</b>                      | <b>32.8</b> | <b>66.5</b> | <b>9.38</b> | <b>104.5</b> | <b>89.2</b> | <b>7.56</b> | <b>94.1</b> | <b>85.6</b> | <b>12.34</b> | <b>67.29</b> | <b>11.2</b> | <b>13.91</b> | <b>47.6</b> | <b>90.3</b> | <b>12.25</b> | <b>--</b> | <b>399.9</b> | <b>49.8</b> |

Q- Quantity, V- Value (in Rs.in Lakhs), N- Number of farmers ('000)

\* Other products: Bio-fertilizers, Bio-pest control formulation & traps, Micronutrient mixtures and Home Science Products (Qty - different units)



Given below table explains the details of various technology products/inputs supplied to farmers (in the category of seeds, planting materials and other products) during last five years (2015-2020).

**Production and supply of major technology products/inputs to farmers in detail (Quantity in category wise)**

| Seed material produced and made available to farmers |             | Planting material produced and made available to farmers |                | Bio-products suitable for the district produced made available |            | Other products suitable for the district |            |
|------------------------------------------------------|-------------|----------------------------------------------------------|----------------|----------------------------------------------------------------|------------|------------------------------------------|------------|
| Crop                                                 | Qty. (Qtl.) | Crop                                                     | No. (in 1000s) | Name of the product                                            | Qty. (Qtl) | Name of the product                      | Qty. (Qtl) |
| <b>2015-16</b>                                       |             |                                                          |                |                                                                |            |                                          |            |
| Cereals                                              | 9.44        | Fruit crops                                              | 10.26          | Bio-fertilizers – AMC Powder                                   | 23.6       | Amla Juice (in ltrs)                     | 310.0      |
| Millets                                              | 0.0         | Plantation crops                                         | 15.75          | Bio-fertilizers – AMC Liquid (1000 Ltrs)                       | 0.0        | Amla Candy                               | 2.8        |
| Vegetables                                           | 3.50        | Fodder                                                   | 0              | Bio-pest control formulations                                  | 46.5       | Finger Millet Malt                       | 1.0        |
| Pulses                                               | 12.0        | Vegetables                                               | 0              | Micro-nutrient mixtures                                        | 183        | Mushroom spawn                           | 4.0        |
| Oilseeds                                             | 40.0        | -                                                        | -              | Pheromone traps                                                | 0.8        | -                                        | -          |

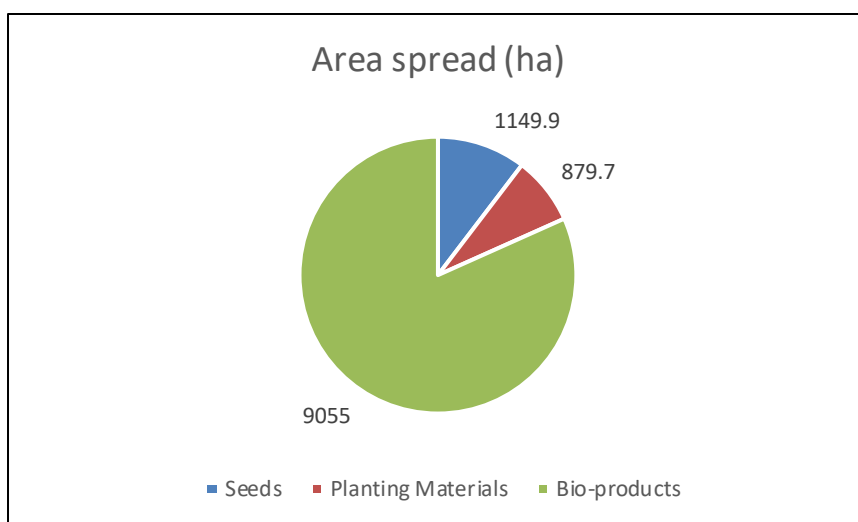
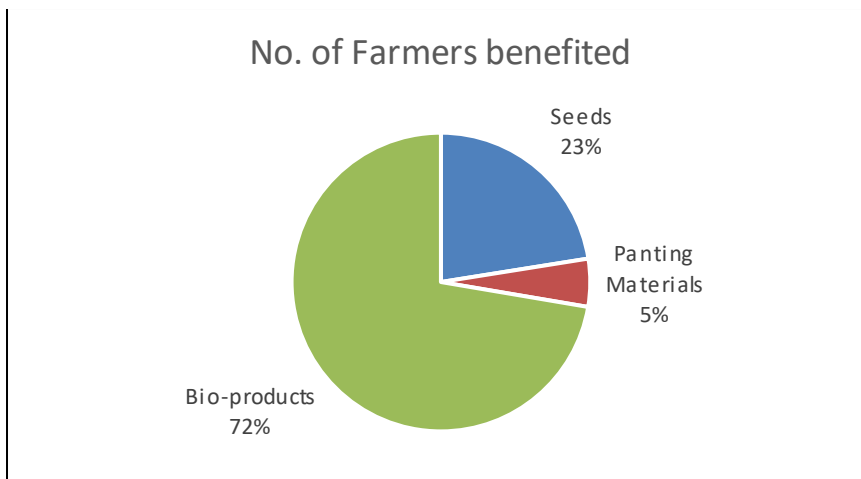
|                                 |       |                  |       |                                          |        |                      |      |
|---------------------------------|-------|------------------|-------|------------------------------------------|--------|----------------------|------|
|                                 |       |                  |       | (1000 Nos.)                              |        |                      |      |
| Vegetable seed kits (1000 Nos.) | 5     | -                | -     |                                          |        | -                    | -    |
| <b>2016-17</b>                  |       |                  |       |                                          |        |                      |      |
| Cereals                         | 4.30  | Fruit crops      | 5.8   | Bio-fertilizers – AMC Powder             | 29.4   | Amla Juice (in ltrs) | 125  |
| Millets                         | 5.00  | Plantation crops | 96.2  | Bio-fertilizers – AMC Liquid (1000 ltrs) | 0.0    | Amla Candy           | 0.76 |
| Vegetables                      | 9.80  | Fodder           | 0     | Bio-pest control formulations            | 49.9   | Finger Millet Malt   | 0.60 |
| Pulses                          | 1.34  | Vegetables       | 0     | Micro-nutrient mixtures                  | 214    | Mushroom spawn       | 1.25 |
| Fodder                          | 2.4   |                  |       | Pheromone traps (1000 Nos.)              | 23.1   | -                    | -    |
| Vegetable seed kits (1000 Nos.) | 1.85  | -                | -     | -                                        | -      | -                    | -    |
| <b>2017-18</b>                  |       |                  |       |                                          |        |                      |      |
| Cereals                         | 0     | Fruit crops      | 12.0  | Bio-fertilizers – AMC Powder             | 43.98  | Amla Juice (in ltrs) | 192  |
| Millets                         | 14.84 | Plantation crops | 67.4  | Bio-fertilizers – AMC Liquid (1000 ltrs) | 0.0    | Amla Candy           | 1.60 |
| Vegetables                      | 3.31  | Fodder           | 6.1   | Bio-pest control formulations            | 23.02  | Finger Millet Malt   | 0.75 |
| Pulses                          | 3.76  | Vegetables       | 6.0   | Micro-nutrient mixtures                  | 304.0  | Mushroom spawn       | 1.26 |
| Oilseeds                        | 0     | -                | -     | Pheromone traps (1000 Nos.)              | 11.0   | -                    | -    |
| Fodder                          | 2.61  | -                | -     | -                                        | -      | -                    | -    |
| Vegetable seed kits (1000 Nos.) | 1.6   | -                | -     | -                                        | -      | -                    | -    |
| <b>2018-19</b>                  |       |                  |       |                                          |        |                      |      |
| Cereals                         | 0     | Fruit crops      | 10.09 | Bio-fertilizers – AMC Powder             | 29.23  | Amla Juice (in ltrs) | 359  |
| Millets                         | 2.11  | Plantation crops | 44.9  | Bio-fertilizers – AMC Liquid (1000 ltrs) | 3.62   | Amla Candy           | 1.30 |
| Vegetables                      | 12.29 | Fodder           | 2.7   | Bio-pest control formulations            | 54.37  | Finger Millet Malt   | 4.42 |
| Pulses                          | 4.49  | Vegetables       | 2.2   | Micro-nutrient mixtures                  | 316.19 | Mushroom spawn       | 6.88 |
| Oilseeds                        | 4.45  | -                | -     | Pheromone traps (1000 Nos.)              | 11.31  | -                    | -    |
| Fodder                          | 0.62  | -                | -     | -                                        | -      | -                    | -    |
| Vegetable seed kits (1000 Nos.) | 2.4   | -                | -     | -                                        | -      | -                    | -    |
| Areca seed nuts (1000 Nos.)     | 48.0  | -                | -     | -                                        | -      | -                    | -    |
| <b>2019-20</b>                  |       |                  |       |                                          |        |                      |      |
| Cereals                         | 14.39 | Fruit crops      | 13.7  | Bio-fertilizers – AMC Powder             | 10.80  | Amla Juice (in ltrs) | 131  |
| Millets                         | 1.97  | Plantation crops | 24.2  | Bio-fertilizers – AMC Liquid (1000 ltrs) | 5.06   | Amla Candy           | 0.44 |
| Vegetables                      | 3.74  | Fodder           | 0.3   | Bio-pest control formulations            | 68.28  | Finger Millet Malt   | 0.80 |
| Pulses                          | 4.30  | Vegetables       | 2.6   | Micro-nutrient mixtures                  | 279.58 | Mushroom spawn       | 9.65 |



|                                       |       |   |   |                                |       |   |   |
|---------------------------------------|-------|---|---|--------------------------------|-------|---|---|
| Oilseeds                              | 0.30  | - | - | Pheromone traps<br>(1000 Nos.) | 16.20 | - | - |
| Fodder                                | 0.28  | - | - | -                              | -     | - | - |
| Vegetable<br>seed kits<br>(1000 Nos.) | 3.82  | - | - | -                              | -     | - | - |
| Areca seed<br>nuts (1000<br>Nos.)     | 39.54 | - | - | -                              | -     | - | - |

### Outcome of Production and Supply/availability of technology products/ inputs to farmers

| Name of the Technological Product/Inputs | No. of farmers benefitted from the production and availability of technology products and inputs | Area (ha) covered due to sale of technological products/inputs (Approximately) |
|------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>Seeds</b>                             |                                                                                                  |                                                                                |
| Cereals                                  | 447                                                                                              | 165                                                                            |
| Millet                                   | 278                                                                                              | 96.5                                                                           |
| Vegetables                               | 3486                                                                                             | 649                                                                            |
| Pulses                                   | 329                                                                                              | 95.2                                                                           |
| Oilseeds                                 | 237                                                                                              | 90.4                                                                           |
| Fodder                                   | 179                                                                                              | 22                                                                             |
| Vegetable seed kits                      | 6091                                                                                             | 6.8                                                                            |
| Areca seed nuts                          | 82                                                                                               | 25                                                                             |
| <b>Total</b>                             | <b>11129</b>                                                                                     | <b>1149.9</b>                                                                  |
| <b>Planting Materials</b>                |                                                                                                  |                                                                                |
| Fruit crops                              | 1726                                                                                             | 645                                                                            |
| Plantation crops                         | 694                                                                                              | 220                                                                            |
| Fodder                                   | 28                                                                                               | 2.2                                                                            |
| Vegetables                               | 118                                                                                              | 12.5                                                                           |
| <b>Total</b>                             | <b>2566</b>                                                                                      | <b>879.7</b>                                                                   |
| <b>Bio Products and other products</b>   |                                                                                                  |                                                                                |
| Bio-fertilizers – AMC Powder             | 2386                                                                                             | 840                                                                            |
| Bio-fertilizers – AMC Liquid             | 1448                                                                                             | 235                                                                            |
| Bio-pest control formulations            | 6981                                                                                             | 2140                                                                           |
| Micro-nutrient formulations              | 16680                                                                                            | 4860                                                                           |
| Pheromone traps                          | 4251                                                                                             | 980                                                                            |
| Amla Juice                               | 694                                                                                              | -                                                                              |
| Amla Candy                               | 1231                                                                                             | -                                                                              |
| Finger Millet Malt                       | 1704                                                                                             | -                                                                              |
| Mushroom spawn                           | 424                                                                                              | -                                                                              |
| <b>Total</b>                             | <b>35799</b>                                                                                     | <b>9055</b>                                                                    |
| <b>Grand Total</b>                       | <b>49,494</b>                                                                                    | <b>11,085</b>                                                                  |



### PART XIII - LINKAGES

#### 13A. Functional linkage with different organizations

| Name of organization                           | Nature of linkage                                                                                                                                                                              |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ICAR-CRIDA, Hyderabad                          | Technology demonstration Component of NICRA and Conservation Agriculture projects                                                                                                              |
| Zilla Panchayat, Tumakuru                      | Bhoosamruddhi Scheme                                                                                                                                                                           |
| State Department of Horticulture               | Trainings, FLDs, Joint Diagnostic Survey, Terrace Gardening, Exhibition, Advisories, Comprehensive Horticultural Development programme etc.                                                    |
| State Department of Agriculture                | Trainings, FLDs, Joint Diagnostic Survey, Krishi Abhiyana, ATMA SREP programme, Demonstration, DATC Training, Exhibition, Organic and Millet Melas, Krishi Melas, Farmers Days and Advisories. |
| Department of Animal Husbandry and Fisheries   | Trainings, FMD Awareness Programme, Exhibition etc.,                                                                                                                                           |
| Department of Sericulture                      | Trainings, Exhibition, Demonstration etc.,                                                                                                                                                     |
| Department of Women and Child Development      | Trainings and Kitchen Gardening                                                                                                                                                                |
| BAIF NGO, Tiptur                               | Trainings and Technical Information                                                                                                                                                            |
| ORDER NGO, Tumakuru                            | Trainings, FLDs, Technical Information and FPOs support                                                                                                                                        |
| AWARE NGO, Tumakuru                            | Trainings on Roof garden                                                                                                                                                                       |
| APART NGO, Tumakuru                            | Organic Farming and Group Approach                                                                                                                                                             |
| MOTHER NGO, Tumakuru                           | Seed Village Concept, FPO support                                                                                                                                                              |
| UAS, Bengaluru                                 | Trainings and FLDs by Technology Backstopping                                                                                                                                                  |
| UAS, Dharwad                                   | Trainings and FLDs by Technology Backstopping                                                                                                                                                  |
| UHS, Bagalkote                                 | Trainings and FLDs by Technology Backstopping                                                                                                                                                  |
| ICAR-NIANP, Bengaluru                          | Trainings and for Technology Backstopping                                                                                                                                                      |
| SKRDP, Tumakuru district                       | Trainings, FPOs                                                                                                                                                                                |
| DHAN Foundation NGO                            | Trainings, Walkathon, Bhoosamruddi scheme programmes                                                                                                                                           |
| AVISHKAR NGO, Tumakuru                         | Trainings, FPOs                                                                                                                                                                                |
| IDF NGO, Tumakuru                              | Trainings, FPOs                                                                                                                                                                                |
| Uttam Grama Seva Trust, Chennai                | Training on Areca leaf plate making                                                                                                                                                            |
| Directorate of Oilseeds Development, Hyderabad | NMOOP project – Groundnut and Castor                                                                                                                                                           |
| Directorate of Pulses Development, Bhopal      | NFSM project- Red gram                                                                                                                                                                         |
| National Horticulture Mission                  | Atomic absorption spectroscopy (AAS) and Mushroom Unit                                                                                                                                         |
| NABARD, Tumakuru                               | AMC Unit – Production of Arka Microbial Consortium                                                                                                                                             |

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

**13B. List of special programmes undertaken by the KVK and operational now, which have been financed by State Govt./Other Agencies**

| Name of the scheme                                | Date/ Month of initiation | Funding agency        | Amount (Rs.) |
|---------------------------------------------------|---------------------------|-----------------------|--------------|
| Technology demonstration component of NICRA       | January 2011              | ICAR-CRIDA, Hyderabad | 955000       |
| National Food Security Mission (NFSM)             | April 2020                | DOP Kanpur            | 270000       |
| National Mission on Oil Seed and Oil Palm (NMOOP) | April 2020                | DOOR Hyderabad        | 560000       |

**13C. Details of linkage with ATMA**

**Coordination activities between KVK and ATMA**

| S. No. | Programme                      | Particulars | No. of programmes attended by KVK staff | No. of programmes Organized by KVK | Other remarks (if any) |
|--------|--------------------------------|-------------|-----------------------------------------|------------------------------------|------------------------|
| 01     | Meetings                       |             |                                         |                                    |                        |
| 02     | Research projects              |             |                                         |                                    |                        |
| 03     | Training programmes            |             |                                         |                                    |                        |
| 04     | Demonstrations                 |             |                                         |                                    |                        |
| 05     | Extension Programmes           |             |                                         |                                    |                        |
|        | Kisan Mela                     |             |                                         |                                    |                        |
|        | Technology Week                |             |                                         |                                    |                        |
|        | Exposure visit                 |             |                                         |                                    |                        |
|        | Exhibition                     |             |                                         |                                    |                        |
|        | Soil health camps              |             |                                         |                                    |                        |
|        | Animal Health Campaigns        |             |                                         |                                    |                        |
|        | Others (Pl. specify)           |             |                                         |                                    |                        |
| 06     | Publications                   |             |                                         |                                    |                        |
|        | Video Films                    |             |                                         |                                    |                        |
|        | Books                          |             |                                         |                                    |                        |
|        | Extension Literature           |             |                                         |                                    |                        |
|        | Pamphlets                      |             |                                         |                                    |                        |
|        | Others (Pl. specify)           |             |                                         |                                    |                        |
| 07     | Other Activities (Pl. specify) |             |                                         |                                    |                        |
|        | Watershed approach             |             |                                         |                                    |                        |
|        | Integrated Farm Development    |             |                                         |                                    |                        |
|        | Agri-preneurs development      |             |                                         |                                    |                        |

**13D. Give details of programmes implemented under National Horticultural Mission**

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

**13E. Nature of linkage with National Fisheries Development Board**







**PART XV –SPECIAL PROGRAMMES**

**15.1 Paramparagath Krishi Vikas Yojana (PKVY)**

| Sl No. | Name of cluster village | Initial soil fertility status (Average of cluster village) |         |         |      | Facilities created for organic source of manure | Name of Crops cultivated | Variety | Organic inputs applied including bio-agents and botanicals treatment | Yield (q/ha) | Economics                   |                     |
|--------|-------------------------|------------------------------------------------------------|---------|---------|------|-------------------------------------------------|--------------------------|---------|----------------------------------------------------------------------|--------------|-----------------------------|---------------------|
|        |                         | Aval. N                                                    | Aval. P | Aval. K | OC % |                                                 |                          |         |                                                                      |              | Cost of cultivation (Rs/ha) | Net returns (Rs/ha) |
| 1      | 1.                      |                                                            |         |         |      |                                                 |                          |         |                                                                      |              |                             |                     |
|        | 2.                      |                                                            |         |         |      |                                                 |                          |         |                                                                      |              |                             |                     |
| 2      | 1.                      |                                                            |         |         |      |                                                 |                          |         |                                                                      |              |                             |                     |
|        | 2.                      |                                                            |         |         |      |                                                 |                          |         |                                                                      |              |                             |                     |
|        |                         |                                                            |         |         |      |                                                 |                          |         |                                                                      |              |                             |                     |

**15.2 District Agriculture Meteorological Unit (DAMU)**

|        | Agro advisories                 |                                              |                          | Farmers awareness programmes |                          |
|--------|---------------------------------|----------------------------------------------|--------------------------|------------------------------|--------------------------|
| Sl No. | No of Agro advisories generated | No of farmers registered for agro advisories | No of farmers benefitted | No of programmes             | No of farmers benefitted |
| 1      |                                 |                                              |                          |                              |                          |
| 2      |                                 |                                              |                          |                              |                          |

**15.3 Fertilizer awareness programme 2020**

| State | Name of KVK | Details of Activities/programme Organised | Number of Chief Guests | No. of Farmers attended program | Total participants |
|-------|-------------|-------------------------------------------|------------------------|---------------------------------|--------------------|
|       |             |                                           |                        |                                 |                    |

**15.4 Seed Hub**

| Crops | Variety | Year of release | Production |            |                       |                  | Remarks |
|-------|---------|-----------------|------------|------------|-----------------------|------------------|---------|
|       |         |                 | Target (q) | Area (ha.) | Actual Production (q) | Category (FS/CS) |         |
|       |         |                 |            |            |                       |                  |         |

**15.5 CFLD on Oilseeds:**

| Sl.No. | Crop      | Varieties demonstrated and check | Allocated |             | Implemented |             |
|--------|-----------|----------------------------------|-----------|-------------|-------------|-------------|
|        |           |                                  | Area (ha) | Demos (No.) | Area (ha)   | Demos (No.) |
| 01     | Groundnut | K-6                              | 50        | 125         | 50          | 125         |





### 15.10 SCSP

| Farmer Training         |                | Women Farmer Training   |                      | Rural Youths            |               | Extension Personnel     |                    | OFT (No of Technologiess) | Number of farmers involved |                  |                                   | Participants in extension activities (No.) | Production of seed (q) | Production of Planting material (Number in lakh) | Production of Livestock strains (Number in lakh) | Production of fingerlings (Number in lakh) | Testing of Soil, water, plant, manures samples (Number) |
|-------------------------|----------------|-------------------------|----------------------|-------------------------|---------------|-------------------------|--------------------|---------------------------|----------------------------|------------------|-----------------------------------|--------------------------------------------|------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------|---------------------------------------------------------|
| No. of Trainings/ Demos | No. of Farmers | No. of Trainings/ Demos | No. of Women Farmers | No. of Trainings/ Demos | No. of Youths | No. of Trainings/ Demos | No. of Ext. Person |                           | On-farm trials             | Front line demos | Mobile agro - advisory to farmers |                                            |                        |                                                  |                                                  |                                            |                                                         |
|                         |                |                         |                      |                         |               |                         |                    |                           |                            |                  |                                   |                                            |                        |                                                  |                                                  |                                            |                                                         |

### 15.11 NARI

| Activity                                                                                           | Achievement        |                               |
|----------------------------------------------------------------------------------------------------|--------------------|-------------------------------|
|                                                                                                    | Number of activity | No. of farmers/ beneficiaries |
| OFTs – Nutritional Garden (activity in no. of Unit)                                                |                    |                               |
| OFTs – Bio-fortified Crops (activity in no. of Unit)                                               |                    |                               |
| OFTs – Value addition(activity in no. of Unit/Enterprise)                                          |                    |                               |
| OFTs - Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise) |                    |                               |
| FLDs – Nutritional Garden (activity in no. of Unit)                                                | <b>30</b>          | <b>30</b>                     |
| FLDs – Bio-fortified Crops (activity in no. of Unit)                                               |                    |                               |
| FLDs – Value addition(activity in no. of Unit/Enterprise)                                          | <b>30</b>          | <b>30</b>                     |
| FLD- Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise)   | <b>15</b>          | <b>15</b>                     |
| Trainings                                                                                          | <b>3</b>           | <b>60</b>                     |
| Extension Activities                                                                               | <b>10</b>          | <b>150</b>                    |

### 15.12 KVK Portal

| No. of Events added by KVKs | No. of Facilities added by KVKs | Filled Report on Package of Practices (Y/N) |           |           |              | Filled Profile Report (Y/N) |       |         |                   |            |       |           |      |
|-----------------------------|---------------------------------|---------------------------------------------|-----------|-----------|--------------|-----------------------------|-------|---------|-------------------|------------|-------|-----------|------|
|                             |                                 | Crop                                        | Livestock | Fisheries | Horticulture | Employees                   | Posts | Finance | Soil Health Cards | Appliances | Crops | Resources | Fish |
| 102                         | 19                              | Y                                           | N         | N         | Y            | Y                           | Y     | Y       | Y                 | Y          | Y     | Y         | N    |

### 15.13 KSHAMTA

| Number of Adopted Villages | No. of Activities |          | No. of farmers benefited |          |
|----------------------------|-------------------|----------|--------------------------|----------|
|                            | Demo              | Training | Demo                     | Training |
|                            |                   |          |                          |          |

## 15.14 DFI

| S<br>l | District | Taluks         | Villages                           | Farmer<br>s (No.) | Average<br>Benchmark<br>Income<br>(Rs/year) | Crops/ enterprises                                                                                                                                                    | KVK<br>Interventions                                                      | Additional<br>Net Income<br>generated<br>due to KVK<br>intervention<br>s (Rs/year) | Total<br>income<br>of<br>farmer<br>(Rs/year<br>) |
|--------|----------|----------------|------------------------------------|-------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------|
| 1      | Tumakuru | Madhugiri      | Rangapura<br>Badavanahalli         | 32                | 91,228                                      | Ragi, Maize,<br>Redgram, Millets<br>Groundnut<br>Tomato, Brinjal,<br>Chilli, Kakada,<br>Mango, Banana,<br>Areca nut, Dairy,<br>Sheep rearing                          | Frontline<br>Demonstrations<br>,<br>Trainings                             | -                                                                                  | -                                                |
| 2      | Tumakuru | Koaratger<br>e | Tanganahalli                       | 50                | 102495                                      | Paddy, Ragi,<br>Maize, Redgram,<br>Groundnut, Tomato<br>, Brinjal,<br>Chilli, French bean<br>Kakada, Mango,<br>Banana, Areca nut,<br>Coconut, Dairy,<br>Sheep rearing | Frontline<br>Demonstrations<br>,<br>Trainings,<br>NICRA<br>Demonstrations | -                                                                                  | -                                                |
| 3      | Tumakuru | Sira           | Kumabarahalli                      | 50                | 65056                                       | Ragi, Maize,<br>Redgram, Millets<br>Groundnut<br>Tomato, Brinjal,<br>Chilli, Mango,<br>Banana, Areca nut,<br>Dairy, Sheep<br>rearing                                  | Frontline<br>Demonstrations<br>Trainings                                  | -                                                                                  | -                                                |
| 4.     | Tumakuru | Pavagada       | Madavarayanapalya<br>, Neralakunte | 26                | 47514                                       | Ragi, Maize,<br>Redgram, Millets<br>Groundnut,<br>Cotton, Tomato,<br>Brinjal, Chilli,<br>Mango,<br>Pomegranate,<br>Banana, Areca nut,<br>Dairy, Sheep<br>rearing      | Frontline<br>Demonstrations<br>Trainings                                  | -                                                                                  | -                                                |
| 5.     | Tumakuru | Tumakuru       | Kodegehalli                        | 20                | 41285                                       | Ragi, Maize,<br>Redgram, Millets<br>Groundnut,<br>Tomato, Brinjal,<br>Chilli, Mango,<br>Banana, Areca nut,<br>Dairy, Sheep<br>rearing                                 | Frontline<br>Demonstrations<br>Trainings                                  | -                                                                                  | -                                                |

**PART XVI - FINANCIAL PERFORMANCE**

**16A. 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 | State Bank of India | Hessaraghatta | 041187      | The Director, IIHR, Bengaluru | 37578009241    |             | SBIN0041187 |
| With KVK            |                     |               |             |                               |                |             |             |

**16B. Utilization of KVK funds during the year 2019-20 (Rs. in lakh)**

| S. No.                                | Particulars                                                                                                                                                    | Sanctioned | Released | Expenditure |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|-------------|
| <b>A. Recurring Contingencies</b>     |                                                                                                                                                                |            |          |             |
| 1                                     | <b>Pay &amp; Allowances</b>                                                                                                                                    | 140.0      | 115.30   | 124.54      |
| 2                                     | <b>Traveling allowances</b>                                                                                                                                    | 2.10       | 2.10     | 1.72        |
| 3                                     | <b>Contingencies</b>                                                                                                                                           |            |          |             |
| A                                     | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 5.68       | 5.64     | 4.53        |
| B                                     | POL, repair of vehicles, tractor and equipments                                                                                                                | 3.23       | 3.23     | 2.23        |
| C                                     | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)                                                                                  | 1.00       | 1.00     | 0.76        |
| D                                     | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)                                      | 0.25       | 0.25     | 0.15        |
| E                                     | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)                                                                     | 3.15       | 3.15     | 1.46        |
| F                                     | On farm testing (on need based, location specific and newly generated information in the major production systems of the area)                                 | 0.40       | 0.40     | 0.30        |
| G                                     | Training of extension functionaries                                                                                                                            | 0.25       | 0.25     | 0.08        |
| H                                     | Maintenance of buildings                                                                                                                                       | 3.50       | 3.50     | 0.40        |
| I                                     | Establishment of Soil, Plant & Water Testing Laboratory                                                                                                        | 0.25       | 0.25     | 0.24        |
| J                                     | Library                                                                                                                                                        | 0.05       | 0.05     | 0.03        |
| <b>TOTAL (A)</b>                      |                                                                                                                                                                |            |          |             |
| <b>B. Non-Recurring Contingencies</b> |                                                                                                                                                                |            |          |             |
| 1                                     | <b>Works</b>                                                                                                                                                   |            |          |             |
| 2                                     | <b>Equipment including SWTL &amp; Furniture</b>                                                                                                                |            |          |             |
| 3                                     | <b>Vehicle</b> (Four wheeler/Two wheeler, please specify)                                                                                                      |            |          |             |
| 4                                     | <b>Library</b> (Purchase of assets like books & journals)                                                                                                      |            |          |             |
| <b>TOTAL (B)</b>                      |                                                                                                                                                                |            |          |             |
| <b>C. REVOLVING FUND</b>              |                                                                                                                                                                |            |          |             |
| <b>GRAND TOTAL (A+B+C)</b>            |                                                                                                                                                                | 161.10     | 136.40   | 137.20      |

**16C. Status of revolving fund (Rs. in lakh) for the last three years**

| Year                       | Opening balance as on 1 <sup>st</sup> January | Income during the year | Expenditure during the year | Net balance in hand as on close of each year |
|----------------------------|-----------------------------------------------|------------------------|-----------------------------|----------------------------------------------|
| April 2018 to March 2019   | 32,33,564                                     | 1,14,56,942            | 83,82,988                   | 63,07,518                                    |
| April 2019 to March 2020   | 63,07,518                                     | 79,05,495              | 1,07,65,845                 | 34,47,168                                    |
| April 2020 to January 2021 | 34,47,168                                     | 81,13,248              | 1,07,17,862                 | 8,42,554                                     |

**17. Details of HRD activities attended by KVK staff - NIL**

| Name of the staff | Designation | Title of the training programme | Institute where attended | Dates |
|-------------------|-------------|---------------------------------|--------------------------|-------|
|                   |             |                                 |                          |       |

**18. Please include any other important and relevant information which has not been reflected above (write in detail). Like details regarding FPO formation, Achievements during COVID-19 lockdown period.**

- Office opened for three days in a week during April 2020 onwards, after the completion of the first phase of nationwide lock down.
- KVK products sold for 179 farmers of worth of Rs. 4.05 lakhs during the COVID 19 lock down period.
- Agro advisories were provided for two months (April and May) to the farmers (approximately 1.5 lakhs farmer) through line departments.
- Message on Arogya Sethu App was widely shared in the farmers' group and messages.
- KVK Scientist attended farmer phone calls every day accounting to total 500 farmers got benefitted with regard to crop management, procurement of inputs, marketing related information.
- A Radio programme – Namma Halli Radio was launched during the period by Red cross society. we have given voice message on the fruit crop management practices during this phase. This message was broadcast to farmers in rural area.
- Farm activities like grafting and maintenance was taken care during the period, with limited staff
- Newspaper coverage on healthy habits like eating more number of vegetables and fruits were done, in order to improve the immunity power of citizens.
- Distribution of grocery-kit and seeds to SC farmers / farm women, Kadrenahalli, Tumakuru in collaboration with Avishkar NGO, Tumakuru
- KVK, along with department of Women and children and NRLM was organized a training programme on Spirulina Chikki supplement to develop immunity during 22.05.2020.30 SHG women members were participated.
- KVK, Hirehalli, linked Tomato farmers to Nagarabhavi Residents Bengaluru forum consists of 625 residents. 3.5 tones of Tomato were sold during COVID-19. More than 8 farmers from Tumakuru and Mandya district were facilitated to sell the produced during the period.
- In support of Suvarnamuki FPO, Badavanahalli, Madhugiri, many FLDs of new farm technologies, from ICAR-IIHR and GKVK, UAS, Bengaluru, were introduced. Chilli (Arka Kyathi), Onion (Arka Kalyan), China Aster (Arka Kamini), Brinjal (Arka Anamika) and Neem soap application are few among them. FPO members are involved in Value addition of Tamarind. A proper support is given to uplift their tamarind based products like Lollipops. Ideas related to FSSAI registration, proper packing and branding were shared. Arrangements to sell these products in KrishiMelas are also arranged periodically. Under SCSP project, honey bee boxes were provided to the eligible farmers of the FPO.
- ICAR-Indian Institute of Horticultural Research, Bengaluru, organized Honeybee Rearing & Training Programme at Kadaranahalli, Tumakuru Taluk and Badavanahalli, Madhugiri Taluk, Tumakuru District under Tribal sub plan project on 30-07-2020.
- ICAR-Indian Institute of Horticultural Research, Bengaluru and KVK Hirehalli organized planting material distribution to farmers under SCSP programme at Pavagada in collaboration with Madakari FPO
- Supported Gramachetana FPO of D. Nagenahalli Koratagere taluk through providing honey bee colonies during COVID 19

- For Kasturi Rangappa Naika, DHAN, Nidagal and Madakari FPO's, handholding support was provided in running their business activities, apart from technical support. Farmers were covered under NFSM and NMOOP project by involving them for utilizing the improved varieties of Red gram (BRG-5) and Groundnut (K-6). Technological inputs of KVK like AMC and Micronutrient specials were provided for their FPO on discounted rate.
- A market linkage with Jack fruit processing firm (V.Nice Co.) was arranged for Gram Chetana FPO, D.Nagenahalli, Koratagere. Initially a meeting was arranged about minimal processing of Jack fruits. The Manager from the firm explained about the requirements and how to come out with the products. Later, they arranged cold storage boxes, which were sent to FPO. FPO members involved in minimal processing of fruits and transported them to the firm. Under SCSP project, drip irrigation lines were provided to the eligible farmers of this FPO.
- KVK Supported Hebbur Horticulture FPO, Horticulture FPO, Pavagada on crop management related activities, Marketing support to sell their products by linking with DDH (HOPCOMS) and procurement of machines for processing different products.
- KVK is instrumental in provision of machineries to FPOs :Swavalambi utpadakara samsthe, Madakari Souharda Co-operative Limited, Suvarnamukhi Souharda Co-operative Limited, Gramachetana.
- Use Of Social Media By Farmers Direct Marketing Of Avocado in Collaboration with Indian Institute of Horticultural Research (IIHR), Krishi Vigyan Kendra (KVK) Gonikoppal and Hirehalli.



Distribution of Planting Materials under SCSP Project at Pavagada in collaboration with Madhakar FPO



Handing over Beehives to farmers under SCSP