**KRISHI VIGYAN KENDRAGANGAVATHI (KOPPAL)**

# ANNUAL REPORT-2020

**(FOR THE PERIOD FROM 01 January, 2020 TO 31 December, 2020)**


**KVK details:**
ICAR-Krishi Vigyan Kendra Gangavathi (Koppal)
ARS campus, Kanakagiri road, Ggangavati – 583227, Koppal Dist.
Website: www.kvkgangavathi.org, E-mail: kvk.koppal@icar.gov.in

**Host organization details:**
University of Agricultural Sciences Raichur
UAS Campus, Raichur– 584104 (Karnataka)

**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 applicableor 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.

# PART I - GENERALINFORMATION ABOUT THE KVK

**1.1. Name and address of KVK withphone, fax and e-mail**

| KVK Address | Telephone | | E mail | Web Address |
|---|---|---|---|---|
| | Office | Fax | | |
| ICAR-Krishi Vigyan Kendra, Gangavathi (koppal)<br>ARS Campus, Kanakagiri Road, Gangavathi-583 227<br>Koppal District | - | - | kvk.koppal@icar.gov.in<br>pckvkkoppal@uasraichur.edu.in | www.kvkgangavathi.org |

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

| Address | Telephone | | E mail | Web Address |
|---|---|---|---|---|
| | Office | Fax | | |
| University of Agricultural Sciences Raichur<br>UAS Campus, Lingasugur Road, Raichur-584102 | 08532-221444 | 08532-220444 | vc@uasraichur.edu.in | www.uasraichur.edu.in |

**1.3. Name of the Programme Coordinator with phone & mobile No.**

| Name | Telephone / Contact | | |
|---|---|---|---|
| | Residence | Mobile | Email |
| Dr. M. V. Ravi<br>Senior Scientist & Head | - | 9480696316 | mvravi1972@gmail.com |

**1.4. Year of sanction: 2004**

## 1.5. Staff position as on 31 December 2020

| Sl. No. | Sanctioned post | Name of the incumbent | Designation | M/F | Discipline | Highest Qualification (for PC, SMS and Prog. Asstt.) | Pay Scale | Basic pay | Date of joining KVK | Permanent /Temporary | Category (SC/ST/ OBC/ Others) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Head/Senior Scientist | Dr. M. V. Ravi | Sr. Scientist & Head | M | Soil Science & Agril. Chemistry | Ph.D (Soil Science) | 1,31,400 – 2,17,100 | 1,39,400 | 28.11.2019 | Permanent | Others |
| 2 | Scientist/SMS | Mrs. Kavitha Ullikashi | Scientist (Home Science) | F | Home Science | MHSc (Food Science & Nutrition) | 57700-182400 | 75300 | 22.06.2017 | Permanent | SC |
| 3 | Scientist/SMS | Mr. Raghavendra Yaligar | Scientist (Agril. Entomology) | M | Agril. Entomology | M.Sc (Agril. Entomology) | 57700-182400 | 82300 | 15.09.2017 | Permanent | ST |
| 4 | Scientist/SMS | Dr. Jyothi, R. | Scientist (Horticulture) | F | Horticulture | Ph.D (Horticulture) | 57700-182400 | 89900 | 25.07.2011 | Permanent | ST |
| 5 | Scientist/SMS | Dr. Mahanthesh, M.T. | Scientist (Animal Science) | M | Animal Science | M.V. Sc (Animal Bio Technology) | 57700-182400 | 77600 | 19.08.2011 | Permanent | OBC |
| 6 | Scientist/SMS | Mrs. J. Radha | Scientist (Seed Science & Technology) | F | Seed Science & Technology | M.Sc (Seed science and Technology) | 57700-182400 | 73100 | 12.05.2016 | Permanent | ST |
| 7 | Scientist/SMS | **VACANT** | - | - | - | - | | | - | - | - |
| 8 | Technical Officer( Soil Science.) | Mrs. Farzana M. Korabu | Technical Officer (Soil Science) | F | Molecular Biology & Agril. Biotechnology | M.Sc (Molecular Biology & Agril. Biotechnology) | 9,300-34,800 | 56900 | 11.11.2008 | Permanent | OBC |
| 9 | Technical Officer (Computer) | Mr. Chandrakant Kotabagi | Technical Officer (Computer) | M | Computer Applications | MCA, PGDCA | 9,300–34,800 | 56900 | 24.03.2017 | Permanent | SC |
| 10 | Technical Officer(Farm Management) | Mr. Narappa, G. | Technical Officer (Farm Mgmt.) | M | Agronomy | M.Sc (Agronomy), MBA | 9,300-34,800 | 56900 | 16.07.2009 | Permanent | ST |
| 11 | Assistant | Mr. T. Basavaraj | Assistant | M | Arts | BA | | 30350 | 14.05.2020 | Permanent | |
| 12 | Jr. Stenographer | Mr. Ravi S | Stenographer | M | Arts | MA | 37900-70850 | 39800 | 17.06.2019 | Permanent | OBC |
| 13 | Driver - 1 | Mr. Khadarbasha | Driver (HV) | M | - | SSLC | 27650-52650 | 31850 | 03.01.2012 | Permanent | OBC |
| 14 | Driver - 2 | **VACANT** | | | | | | | | | |
| 15 | SS-1 | Mrs. Renukamma | Cook-cum-caretaker | F | - | SSLC | 21400-42000 | 27868 | 04.06.2019 | Permanent | ST |
| 16 | SS-2 | Mr. Basappa, K. | Attender | M | - | SSLC | 21400-42000 | 28950 | 19.02.2016 | Permanent | ST |

## 1.6. Total land with KVK (in ha): 19.9 ha

| S. No. | Item | Area (ha) |
|---|---|---|
| 1 | Under Buildings | 01.60 |
| 2. | Under Demonstration Units | - |
| 3. | Under Crops | 16.70 |
| 4. | Orchard/Agro-forestry | 01.60 |
| 5. | Others | - |
| | **TOTAL** | **19.9 ha.** |

## 1.7. Infrastructural Development:

**A) Buildings**

| Sl. 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 | ICAR, New Delhi | October, 2006 | 500 | 25,65,000 | - | - | Established |
| 2 | Farmers Hostel | ICAR, New Delhi | July, 2008 | 350 | 36,00,000 | - | - | Established |
| 3 | Staff Quarters | ICAR, New Delhi | June, 2007 | 400 | 36,92,000 | - | - | Established |
| | 1 | | | | | - | - | |
| | 2 | | | | | - | - | |
| | 3 | | | | | - | - | |
| | 4 | | | | | - | - | |
| | 5 | | | | | - | - | |
| | 6 | | | | | - | - | |
| 4 | **Demonstration Units** | | | | | | | |
| | 1. Vermicompost Units | ICAR, New Delhi | Aug. 2013 | 6 Units | 15,000 | - | - | Established |
| | 2. Horticulture Nursery | NHM, Bangalore | Aug. 2013 | 1 Unit | 6,32,007 | - | - | Established |
| | 3. Fodder Bank | ICAR, New Delhi | Oct.2013 | 2 acre | 20,000 | - | - | Established |
| | 4. Chaff Cutter Cum Grinder | ICAR, New Delhi | Jan. 2013 | 1 Unit | 40,000 | - | - | Present |
| | 5. Nutrition Garden | ICAR, New Delhi | Sep. 2013 | 1 Unit | 5,000 | | | Established |
| | 6. Azolla Unit | ICAR, New Delhi | Oct.2013 | 2 Units | 3,000 | - | - | Established |
| | 7. Millet Processing Unit | UAS, Raichur & KSDA, Bangalore | Nov. 2013 | 1 Unit | 8,00,000 | - | - | Established |
| | 8. Dairy Unit | ICAR, New Delhi | Jan 2015 | 53 | 2,25,000 | - | - | Established |
| | 9. Vermicompost units | ICAR, New Delhi | Mar 2014 | 20 units (0.25 acre) | 1,00,000 | - | - | Established |
| | 10. Compost Unit | ICAR, New Delhi | July 2015 | 02 unit | 57670 | - | | Established |
| | 11. Vegetable special unit | ICAR, New Delhi | Feb 2014 | 01 unit | 300000 | - | - | Established |
| | 12. Honey bee unit | ATMA | 2014 | 02 No. | - | - | - | Established |
| 5 | Fencing | - | - | - | - | - | - | - |
| 6 | Rain Water harvesting system | - | - | - | - | - | - | - |
| 7 | Threshing floor | - | - | - | - | - | - | - |
| 8 | Farm godown | - | - | - | - | - | - | - |
| 9 | Fish Pond | ICAR, New Delhi | - | 1Unit | 70,000 | - | - | Established |

**B) Vehicles**

| Type of vehicle | Year of purchase | Cost (Rs.) | Total kms. Run | Present status |
|---|---|---|---|---|
| Mahindra Bolero | 2016-17 | 6,63,495 | 15573 | Good |
| New Holland Tractor | 2006-07 | 4,99,502 | 311.50 hours | Good |
| Bajaj CT 100 | 2006-07 | 32551 | - | Under repair |
| Hero Honda Passion Plus | 2008-09 | 50,000 | - | Good |
| John Deer Tractor | 2014-15 | 6,66,705 | 559.60 hours | Good |

**C) Equipment & AV aids**

| Name of the equipment | Year of purchase | Cost (Rs.) | Present status |
|---|---|---|---|
| - | - | - | - |

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

| Date | Number of Participants | Salient Recommendations | Action taken | Remarks, if any |
|---|---|---|---|---|
| 21-9-2020 | 33 | Army worm control measures should be taken in the action as it may also attack paddy in future | • Conducted training programmes and awareness programme in collaboration with department survey was conducted to monitor army worm<br>• Demonstration of pheromone traps to monitor fall army worm<br>Information given in mass media | - |
| | | Mechanization in paddy | • 500 ha. area Direct seeded rice was taken through KVK intervention using seed drill<br>Demonstration of paddy bailer | - |
| | | Demonstration regarding vermicompost unit | • Demonstrated vermicompost units in different villages of Koppal district in collaboration with ATMA project | - |
| | | Demonstration regarding cattle feed preparation | • Demonstrated cattle feed preparation using locally available resources in collaboration with KMF | - |
| | | Demonstration regarding honey producing unit. | • In Association with Jenu Krushikar Sangha Honey bee units demonstrated and awareness programme was | - |

| | | | | |
|---|---|---|---|---|
| | | | conducted in different farmers field | |
| | | Scientist should provide farmers field visit to their FLD and OFT plots. | • Board members are participate in Field Day and training programme | - |
| | | Efforts to bring cold storage facility to farmers produce | • Discussed with concerned department yet to be implemented | - |
| | | Increasing area under millet production. Creating awareness regarding nutritive food. | • Through FLD on different millets | - |
| | | Visit of Board members to the farmers field where FLD and OFT trails are conducted. | • Hon'ble Board member Dr. M. Shekargouda visited FLD on Direct Seeded Rice | - |
| | | Creating awareness regarding importance of soil testing among farmers. | • Awareness regarding soil testing was created through training programmes | - |
| | | Measures for chemical free growth of Sona Masuri. | • FLDs on integrate crop management in paddy were demonstrated in farmers field in which bio pesticides were used to manage pests and farmers got good results | - |
| | | Discussion regarding storage of Onion produce. | • Information regarding onion storage structure developed by DOGR, Pune is informed to the onion growing farmers | - |
| | | Spawn seed production. | • The project for mushroom spawn production unit will be submitted to department of horticulture | - |
| | | | • | - |
| | | Technical and Scientific suggestion to farmers problem. | • We are giving technical suggestion through FLD & OFT demonstration in training programmes and through phone and whatsup messages | - |

| | | | | |
|---|---|---|---|---|
| | | Trainings should be conducted based on farmers need. | • Yes | - |
| | | Developing master trainers to develop the concerned entrepreneurship | • Through ASCI trainings we are developing master trainers in mushroom and vermi compost production by improving their skills | - |
| | | The varieties released for specific problem should be taken as OFT or FLD on farmers field. | • Will be included in action plan 2019-20 | - |
| | | Awareness regarding Kurgi sowing in paddy. | • Created awareness through trainings and field days and farmers accepted Kurgi sowing in paddy | - |
| | | Research issue should be highlighted at university level | • KVK is presenting research issues in ZREAC & ZREFC meeting | - |
| | | The research conducted should be given as OFT to farmers. | • OFT has conducted in farmers field | - |
| | | Empowering the farm women/men. | • KVK empowering farm women and farmers through training programmes to take their own entrepreneurship in agriculture | - |
| | | Doubling the farm income | • KVK has demonsted the technologies in farmers field and selected villages | - |
| | | Publishing the achievements and bombarding through media | • Publicity of KVK activities given in print media and mass media to reach technologies in wider area | - |
| | | While preparing plan of action the officers should meet the other department members such as DC, CEO and CDC. | • KVK has prepared the action plan after consulting line departments | - |
| | | Providing information regarding marketing of organic produce to the farmers through KVK. | • Organic growers are encourage to participate in the Krishi Melas and Millet Melas for their product advertisement and | - |

| | | | | |
|---|---|---|---|---|
| | | | sale | |
| | | Increasing training activities in Agriculture and Horticulture field to youths. | • KVK conducted training programmes in agriculture and horticulture in different aspects involving the rural youths | - |
| | | Conducting Dairy and Poultry training to womens to develop Entrepreneurship. | • Conducted training programme on dairy, sheep, goat and poultry to SHGs groups | - |
| | | Storage and marketing of mushroom produce. | • KVK provided marketing facility and storage practices to mushroom growers | - |

## PART II - DETAILS OF DISTRICT

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

| Sl. No | Farming system/ enterprise |
|---|---|
| **Rainfed Situation** | |
| 1 | Greengram – Rabi Sorghum |
| 2 | Sunflower – Chickpea |
| 3 | Greengram – Wheat |
| 4 | Cotton – Fallow |
| 5 | Fallow – Sorghum |
| 6 | Bajra – Bengalgram |
| 7 | Foxtail millet |
| 8 | Goat, Sheep, Cows and Buffalos rearing |
| **Irrigated Situation** | |
| 9 | Paddy based cropping system |
| 10 | • Fruit Crop (Pomegranate, Banana, Mango, Sapota, Citrus & Papaya) based cropping system<br>• Vegetable (Tomato, Chilli & Brinjal) based cropping system |
| 11 | Sunflower – Maize – Groundnut |
| 12 | Maize– Sunflower – Groundnut |
| 13 | Onion – Chilli – Cotton |
| 14 | Dairying |

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

| Sl. No | Agro-climatic Zone | Characteristics |
|---|---|---|
| 1 | Northern Dry Zone of Karnataka, Zone – 3 | • Very less rainfall (572 mm) and 30-35 rainy days<br>• Medium Black, Deep Black & Red soils, Partly Irrigated (20%) and July & September are peak rainy months<br>• Includes Agricultural crops (Paddy, Sorghum, Maize, Pearl millet, Foxtail millet, Redgram, Greengram, Groundnut, Sunflower Sesame, Bengalgram & Cotton) & Horticulture crops *viz.,* Pomegranate, Mango, Papaya, Sapota, Banana and Vegetables (Onion, Chilli, Brinjal & Tomato etc.) |

| Sl. No | Agro ecological situation | Characteristics |
|---|---|---|
| 1 | Rainfed (80%) | ➢ Medium Black soil (Yelaburga, Kushtagi, Gangavati and Koppal)<br>➢ Deep black soil (Yelaburga and Koppal) |
| 2 | Irrigated (20%) | ➢ Red soil (Yelaburga, Kushtagi, Gangavati and Koppal)<br>➢ Source – TBP Canal, Well, Tank and lift irrigation |

2.3 Soil type/s

| Sl.No | Soil type | Characteristics | Area in ha |
|---|---|---|---|
| 1 | Black soils | • Possess a characteristically dark color, ranging from dark brown to deep black. They are high in clay content, clay mostly belong to montmorillonitic group and are sticky and plastic when wet. They show strong swelling and shrinkage with changes in moisture content and produce deep and wide cracks. Their limitation for crop production is because of their poor tillage and poor drainage. The black colour may be due to presence.<br>• Clay-humus complexes or titaniferous-magnetite compounds. The soils | 40% |

| | | | |
|---|---|---|---|
| | | classified as shallow-possessing a depth of 30 cm or less, medium-30 to 100 cm and deep black soils -100 to 200 cm or even more.<br>• According to soil taxonomy, the common orders, sub orders and great groups of black soils are as follows. Order – Vertisol & Sub order – Torrets and Usterts<br>• Great group – Torritorrerts, Usttorrerts, Torriusterts & Ustusterts | |
| 2 | Red soils | • Well-drained soils with clay enriched subsoil developed from granite, genesis of schists under subtropical climate. The normal red soils have a pH around neutrality acidic side. The A-horizon is dark reddish brown while B-horizon may have a dark brown color.<br>• The clay minerals become coated with red hematite of yellow limonite forming a reddish-yellow soil. Impure iron, alumina-silica, concretions and quartz are common constituents of red soil.<br>• According to soil taxonomy the common orders, sub orders and great groups of red soils are as follows. Order – Alfisol and Ultisol Sub order – Ustalfs, Ustults, Aqults<br>• Great group – Haplustalfs, Rhodustalfs, Paleustalfs, Haplustults, Rhodoustults & Ochraquults | 60% |

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

**Irrigated**

| Sl. No | Crop | Area (ha) | Production (Metric tons) | Productivity (kg /ha) |
|---|---|---|---|---|
| 1 | Paddy | 56338.77 | 326764.87 | 5800 |
| 2 | Maize | 50671.00 | 57004.88 | 1125 |
| 3 | Bajra | 1166.00 | 1982.00 | 1700 |
| 4 | Redgram | 879.00 | 1077.00 | 1225 |
| 5 | Sunflower | 4714.00 | 8250.00 | 1750 |
| 6 | Groundnut | 4921.00 | 11220.00 | 2280 |
| 7 | Cotton | 1568.00 | 4234.00 | 270 |

**Rainfed**

| Sl. No | Crop | Area (ha) | Production (Metric tons) | Productivity (kg /ha) |
|---|---|---|---|---|
| 1 | Paddy | 110 | 35 | 315 |
| 2 | Maize | 42479 | 17629 | 415 |
| 3 | Bajra | 54973 | 13743 | 250 |
| 4 | M.Millets | 4462 | 1339 | 300 |
| 5 | Redgram | 24298 | 8504 | 350 |
| 6 | Bengalgram | 52498 | 39374 | 750 |
| 7 | Greengram | 28843 | 7211 | 250 |
| 8 | Horsegram | 5478 | 1698 | 310 |
| 9 | Sunflower | 9600 | 3600 | 375 |
| 10 | Groundnut | 15164 | 5307 | 350 |
| 11 | Cotton | 30 | 15 | 5 |

* Source : Karnataka State Department of Agriculture (KSDA), Koppal

**Area, Production and productivity of Horticulture Crops**

| S. No | Crops | Area (ha) | Production (Metric tons) | Productivity (kg /ha) |
|---|---|---|---|---|
| 1 | Fruits | 9149.66 | 194946.2 | 21.31 |
| 2 | Vegetables | 30697.80 | 558561.00 | 18.20 |
| 3 | Flower | 862.00 | 104 | 0.12 |
| 4 | Spices | 231.38 | 2382.10 | 10.30 |
| 5 | Plantation crops | 1042.00 | 819.00 | 0.79 |

* Source: Karnataka State Department of Horticulture (KSDH), Koppal

**2.5. Weather data**

| Month | Rainfall (mm) | Temperature $^0$ C | | Relative Humidity (%) |
|---|---|---|---|---|
| | | Maximum | Minimum | |
| Jan-2020 | 0.00 | 33.00 | 15.00 | 90.80 |
| Feb-2020 | 0.00 | 33.00 | 16.00 | 73.00 |
| Mar-2020 | 0.00 | 34.00 | 19.00 | 83.10 |
| Apr-2020 | 25.10 | 41.2 | 23.00 | 79.60 |
| May-2020 | 56.50 | 41.00 | 23.00 | 81.70 |
| Jun-2020 | 87.80 | 35.00 | 21.00 | 80.60 |
| Jul-2020 | 140.40 | 30.00 | 20.00 | 82.00 |
| Aug-2020 | 74.20 | 31.00 | 24.00 | 79.70 |
| Sep-2020 | 141.40 | 29.00 | 23.00 | 85.00 |
| Oct-2020 | 67.3 | 30.00 | 23.00 | 87.00 |
| Nov-2020 | 11.00 | 29.93 | 18.56 | 69.61 |
| Dec-2020 | 0.00 | 29.51 | 15.70 | 59.35 |
| Jan-2021 | 16.80 | 29.90 | 17.64 | 57.09 |

* Please provide latest data from authorized sources. Please quote the source

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

| Category | Population | Production | Productivity |
|---|---|---|---|
| **Cattle** | | | |
| *Crossbred*<br>*Indigenous* | 231865 | 347797 lit/day | 3 lit /day |
| **Buffalo** | 63645 | 53037 lit/day | 2.5 lit /day |
| **Sheep** | | | |
| Crossbred<br>*Indigenous* | 626282 | 5636 tonnes | 18 kg/ adult sheep |
| **Goats** | 172941 | 1729 tonnes | 20 kg adult Goat |
| **Pigs** | 8651 | 108 tonnes | 25 kg/ adult pig |
| | | | |
| **Rabbits** | 519 | 1 tonnes | 2 kg/ adult rabbit |
| **Poultry** | | | |
| Hens<br>*Desi*<br>*Improved*<br>Ducks<br>Turkey and others | 3948999 | 2961 tonnes | 1.5 kg/ bird |
| **Category** | **Area** | **Production** | **Productivity** |
| Fish | | | |
| *Marine*<br>*Inland*<br>Prawn<br>Scampi<br>Shrimp | 10 ha. | 1500 No./ha. | 500 kg/ha./year |

***** Source: Dept. of Animal Husbandry & Veterinary Services, Koppal

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 | How long the village is covered under operational area of the KVK (specify the years) | Major crops & enterprises | Major problem identified | Identified Thrust Areas |
|---|---|---|---|---|---|---|---|
| 1. | Koppal | Koppal | Kataraki | One year | Cowpea | ▪ Low yield<br>▪ BLB<br>▪ Pod borer | Assessment of new mustard varieties and sesame crop for paddy fallows |
| 2. | Karatagi | Navali | Chikkadankanakal | One year | Mustard | ▪ Lack of awareness of suitable crops for Paddy fallows<br>▪ Lack of awareness of suitable varieties of mustard crop for paddy fallows | Assessment of new cowpea varieties |
| 3. | Koppal | Ginigera | Halahalli | One Year | Okra | • Non availability of high yielding<br>• YVMV tolerant variety | Assessment of hybrids in okra |
| 4. | Karatagi | Karatagi | Timmapur/ Budagumpa/ Raja camp/ Halasamudra | Three years | Paddy | ▪ Scarcity of water for tail end farmers<br>▪ Weed problem<br>▪ Excess use of fertilizers & pesticides<br>▪ Labour problem<br>• High COC | Good agricultural practices in Direct seeded rice |
| 5. | Karatagi/ Kukanur | Karatagi/ Mangaluru | Timmapur/ Sidaganahalli/ Vataparvi/ Ravanaki | One Year | Paddy | ▪ Lack of awareness of short duration varieties<br>▪ Low yield<br>▪ High incidence of blast diseases | Paddy new variety GNV-10-89 |
| 6. | Gangavathi/ Kukanur | Siddapur | Gundur camp/ Siddapur/ Mustur/ Kuntoji/ Kakkaragola | One year | Paddy | ▪ Excess use of N fertilizers (200-250 % then RDF)<br>▪ Loss of N to the extent of 50-60 %,<br>• No precise application of nitrogenous fertilizers | LCC for real time nitrogen management in paddy |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 7. | Gangavathi/ Kukanur | Siddapur | Gundur camp/ Siddapur/ Mustur/ Kuntoji/ Kakkaragola/ Bennur/ Bargur | One Year | Paddy | ▪ Excess use of water<br>▪ 50 % water can be saved<br>▪ Lake of awareness of water saving techniques | Water saving technique : alternate wetting & drying (AWD) in paddy |
| 8. | Karatagi/ Kukanur | Navali/ Mangaluru | Chikkadankanakal/Kuduremoti | One Year | Paddy | Lack of awareness of salt tolerant variety | Salt tolerant variety of Paddy GGV-05-01 |
| 9. | Karatagi | Karatagi/ Navali | Budagumpa/ Chikkadankanakal | One Year | Paddy | Lack of awareness of short duration slender grain variety | Paddy variety RNR-15048 |
| 10. | Karatagi | Siddapur | Gundur camp/ Gundur/ Kotnekal/ Mushtur | One Year | Paddy | Resurgence of BPH in Paddy severity of Bacterial Blight disease. Introduction of Resistant Variety | IPDM in paddy |
| 11. | Gangavathi | Marali | Hanaval | One Year | Green manure crops | • Less crop rotation in paddy fallows<br>• Less nitrogen fixation<br>• Soil erosion<br>• Low soil fertility | Green manure seed production (Dhancha and Pillepesaru) in paddy fallows |
| 12. | Kukanur | Mangaluru | Vataparvi/ Nalajeri | Two Years | Maize/ Jawar | • Invasive pest | Management of fall armyworm in maize/jowar |
| 13. | Karatagi | Karatagi | Kindi camp/ Yaradona | Two Years | Little millet | • Lack of awareness of high yielding varieties | Little millet variety DHLM 36-3 |
| 14. | Kukanur | Mangaluru | Vataparvi/ Kudaremoti | One Year | Brown top millet | • Lack of awareness of high yielding varieties | Brown top millet variety HBK-1 |
| 15. | Karatagi/ Koppal/ Kukanur | Karatagi/ Koppal/ Mangaluru | Timmapur/ Yaradona/ Chikkabommanal/ Sidaganahalli/ Ravanaki/ Myadaneri/ Vataparvi | Two Years | Foxtail Millet | • Lack of awareness of high yielding varieties | Foxtail millet variety HN-46 and value addition |
| 16. | Kustagi/ Kukanur | Tavagera/ Mangaluru | Muddalagundi/ Vataparavi | Two Years | Bengalgram | • Farmers not aware of seed treatment with new fungicides | Management of dry root rot and wilt complex in bengalgram |
| 17. | Kukanur | Mangaluru | Vataparavi/ Halahalli | One Year | Guava | • Nametode and wilt | Demonstration and management of wilt complex in Guava |
| 18. | Kanakagiri/ Kukanur | Kanakagiri/ Mangaluru | Sirawari/ Vataparvi | One years | Tuberose | ▪ Cultivation of local variety<br>• Low yield | Introduction of Tuberose variety Arka Prajwal |
| 19. | Kushtagi/ Karatagi | Tavaragera/ Navali | Maddalagundi/ Chikkadankanakal | One year | Onion | • Cultivation of local variety<br>• Low yield | Onion variety Bhima Dark Red |

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|---|---|---|---|---|---|---|---|
| 20. | Karatagi/ Kushtagi/ Kukanur | Navali/ Tavaragera/ Mangaluru | Chikkadankanakal, Maddalagundi, Vataparvi | Two years | Silage barrel | lack of awareness on fodder preservation technologies | Silage preparation for stall fed sheep/goat units |
| 21. | Karatagi/ Koppal/ Kukanur | Navali/ Koppal/ Mangaluru | Chikkadankanakal, Chikkabommanala, Vataparvi | Two years | Cattle/ Buffalo | Repeat breeding in cows and buffaloes | Impregnated nano fibers for induction of oestrus in repeat breeding cows/buffaloes |
| 22. | Karatagi/ Koppal/ Kukanur | Navali/ Koppal/ Mangaluru | Chikkadankanakal, Chikkabommanala, Vataparvi | Two years | Sheep & goat | low body growth and prone to deficiency diseases | Species specific mineral mixture for small ruminants in intensive system of rearing |
| 23. | Karatagi/ Koppal/ Kukanur | Navali/ Koppal/ Mangaluru | Chikkadankanakal, Chikkabommanala, Vataparvi | Two years | Dairy | ▪ Low milk yield<br>▪ Low SNF & Fat % | Integrated Dairy Management |
| 24. | Koppal/ Gangavathi | Koppal/ Siddapur/ Gangavathi | Chikkabommanala, Sanapura,Hirekheda,Siddapura ICAR-KVK,Gangavathi | One year | Fish | • Lack of awareness of high value fish production in short duration | All male Tilapia fish in farm ponds |
| 25. | Koppal/ Kukanur | Koppal/ Mangaluru | Chikkabommanal/ Vataparvi | One year | Functional Cloth | Harmful health hazards viz.,<br><br>Cuts and wounds, itching,<br>• Irritation mainly to hands and as well to other parts of the body during harvesting, threshing and winnowing activities | Functional clothing for agricultural activities |
| 26. | Koppal/ Kukanur/ Kushtagi | Koppal/ Mangaluru/ Tavaragera | Chikkabommanal/ Vataparavi and Mudalgundi | One year | Crop cafeteria | Market glut and low prices due to mono cropping in vegetables | Vegetable crop cafeteria with improved varieties |
| 27. | Kukanur/ Karatagi | Mangaluru/ Karatagi | Vataparvi/ Yaradona | One year | Grain storage | Grain loss storage | Super grain bags for storage of seeds |

**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. | Koppal | Koppal | Chikkabommanal | Basavaraj H Kolli | 20000 | 45000 | -25000 |
| 2. | Koppal | Koppal | Chikkabommanal | Hanumanthappa Daregondra | 20000 | 42000 | -22000 |
| 3. | Koppal | Koppal | Chikkabommanal | Hanumangouda H | 30000 | 45000 | -15000 |
| 4. | Koppal | Koppal | Chikkabommanal | Devappa G Sullikeri | 15000 | 40000 | -15000 |
| 5. | Koppal | Koppal | Chikkabommanal | Shivappa G. Engaladal | 70000 | 60000 | 10000 |
| 6. | Koppal | Koppal | Chikkabommanal | Baramajja H. Angadsi | 30000 | 48000 | -18000 |
| 7. | Koppal | Koppal | Chikkabommanal | Nirupadi M Kolli | 40000 | 50000 | -10000 |
| 8. | Koppal | Koppal | Chikkabommanal | Rudrayya B. Hiremath | 30000 | 47000 | -17000 |
| 9. | Koppal | Koppal | Chikkabommanal | Shivamma Pavadeppa | 20000 | 42000 | -22000 |
| 10. | Koppal | Koppal | Chikkabommanal | Nagappa Yamanappa Dambari | 20000 | 40000 | -20000 |
| 11. | Koppal | Koppal | Chikkabommanal | Hanumanthappa Sanneppa | 20000 | 41000 | -21000 |
| 12. | Koppal | Koppal | Chikkabommanal | Hanumanthapp Pujari | 30000 | 46000 | -16000 |
| 13. | Koppal | Koppal | Chikkabommanal | Chidanandagouda Shankaragouda | 20000 | 43000 | -13000 |
| 14. | Koppal | Koppal | Chikkabommanal | Hanumangouda Naganagouda | 30000 | 48000 | -18000 |

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|---|---|---|---|---|---|---|---|
| 15. | Koppal | Koppal | Chikkabommanal | Veerupanagouda Naganagouda | 15000 | 35000 | -20000 |
| 16. | Koppal | Koppal | Chikkabommanal | Balanagouda Shankragouda | 30000 | 48000 | -18000 |
| 17. | Koppal | Koppal | Chikkabommanal | Bhimanagouda Subhashachandra | 50000 | 55000 | -5000 |
| 18. | Koppal | Koppal | Chikkabommanal | Basavaraj Kenchappa | 40000 | 56000 | -16000 |
| 19. | Koppal | Koppal | Chikkabommanal | Hanumanthappa Yamanappa | 30000 | 42000 | -12000 |
| 20. | Koppal | Koppal | Chikkabommanal | Chandrappa Shetty | 30000 | 44000 | -14000 |
| 21. | Koppal | Koppal | Chikkabommanal | Sangappa Basanna | 20000 | 40000 | -20000 |
| 22. | Koppal | Koppal | Chikkabommanal | Basappa Neljeri | 25000 | 43000 | -15000 |
| 23. | Koppal | Koppal | Chikkabommanal | Gangayya Sangayya Hiremath | 30000 | 44000 | -14000 |
| 24. | Koppal | Koppal | Chikkabommanal | Chandrappa Somanna | 30000 | 46000 | -16000 |
| 25. | Koppal | Koppal | Chikkabommanal | Nabisab, Babusab | 25000 | 47000 | -22000 |
| 26. | Koppal | Koppal | Chikkabommanal | Mariyappa S/o Yamunappa | 30000 | 49000 | -19000 |
| 27. | Koppal | Koppal | Chikkabommanal | Basavaraj S/o Balappa | 35000 | 48000 | -13000 |
| 28. | Koppal | Koppal | Chikkabommanal | Shivamma W/o Hanumana gouda | 40000 | 52000 | -12000 |
| 29. | Koppal | Koppal | Chikkabommanal | Nagaraj S/o Bommanalappa bajantri | 45000 | 53000 | -8000 |
| 30. | Koppal | Koppal | Chikkabommanal | Virupakshappa S//o Shanmukappa Shetter | 35000 | 51000 | -16000 |

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|---|---|---|---|---|---|---|---|
| 31. | Koppal | Koppal | Chikkabommanal | Balappa S/o Hanumantappa binda | 30000 | 47000 | -17000 |
| 32. | Koppal | Koppal | Chikkabommanal | Hanumantappa S/o Kenchappa daregoudar | 35000 | 51000 | -16000 |
| 33. | Koppal | Koppal | Chikkabommanal | Maharidrayya S/o Shivayya Hiremath | 40000 | 53000 | -13000 |
| 34. | Koppal | Koppal | Chikkabommanal | Nagappa S/o Hanumantappa | 30000 | 46000 | -16000 |
| 35. | Koppal | Koppal | Chikkabommanal | Shivappa S/o Giddappa | 40000 | 48000 | -8000 |
| 36. | Koppal | Koppal | Chikkabommanal | Basappa S/o Neelappa V | 35000 | 46000 | -11000 |
| 37. | Koppal | Koppal | Chikkabommanal | Shivasangappa S/o Shivappa Vakkar | 40000 | 53000 | -13000 |
| 38. | Koppal | Koppal | Chikkabommanal | Nagappa S/o Yamunappa madivalar | 30000 | 45000 | -15000 |
| 39. | Koppal | Koppal | Chikkabommanal | Shantavva W/o Yamanappa koli | 45000 | 54000 | -6000 |
| 40. | Koppal | Koppal | Chikkabommanal | Uligamma W/o Uchhappa walikar | 50000 | 58000 | -8000 |
| 41. | Koppal | Koppal | Chikkabommanal | Giddappa S/o Doddappa Venkalakunta | 35000 | 46000 | -11000 |
| 42. | Koppal | Koppal | Chikkabommanal | Virupakshappa S/o Malleshappa | 40000 | 51000 | -11000 |
| 43. | Koppal | Koppal | Chikkabommanal | Yamunappa S/o Kenchappa Daregoudar | 35000 | 45000 | -10000 |
| 44. | Koppal | Koppal | Chikkabommanal | Sangappa S/o Pampanna wakra | 30000 | 42000 | -12000 |
| 45. | Koppal | Koppal | Chikkabommanal | Bhemappa S/o Hanumappa Desai | 30000 | 44000 | -14000 |

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| 46. | Koppal | Koppal | Chikkabommanal | Hanumantappa S/o Balappa Bindal | 35000 | 48000 | -13000 |
| 47. | Koppal | Koppal | Chikkabommanal | Basappa S/o Mukkalappa | 30000 | 47000 | -17000 |
| 48. | Koppal | Koppal | Chikkabommanal | Hanumavva W/o Kanteppa | 60000 | 62000 | -2000 |
| 49. | Koppal | Koppal | Chikkabommanal | Shivappa S/o Shivanagouda | 45000 | 55000 | -10000 |
| 50. | Koppal | Koppal | Chikkabommanal | Virupakshagouda S/o Naganagouda Malijikal | 50000 | 53000 | -3000 |
| 51. | Gangavathi | Navali | Chikkadankanakal | Pakirappa Jinnur | 50000 | 55000 | -5000 |
| 52. | Gangavathi | Navali | Chikkadankanakal | Amareshappa | 20000 | 42000 | -22000 |
| 53. | Gangavathi | Navali | Chikkadankanakal | Laxamappa Somanna | 20000 | 40000 | -20000 |
| 54. | Gangavathi | Navali | Chikkadankanakal | Husainsab | 20000 | 44000 | -24000 |
| 55. | Gangavathi | Navali | Chikkadankanakal | Basavaraj Peti | 10000 | 35000 | -25000 |
| 56. | Gangavathi | Navali | Chikkadankanakal | Kariyappa Mudiyappa | 35000 | 50000 | -15000 |
| 57. | Gangavathi | Navali | Chikkadankanakal | Gundappa Benakal | 15000 | 35000 | -20000 |
| 58. | Gangavathi | Navali | Chikkadankanakal | Bhimappa Adapur | 10000 | 30000 | -20000 |
| 59. | Gangavathi | Navali | Chikkadankanakal | Devaraj | 10000 | 32000 | -22000 |
| 60. | Gangavathi | Navali | Chikkadankanakal | Hanumanthappa Gaddi | 20000 | 35000 | -15000 |
| 61. | Gangavathi | Navali | Chikkadankanakal | Balappa Kattimani | 3000 | 20000 | -17000 |
| 62. | Gangavathi | Navali | Chikkadankanakal | Hanumanth | 25000 | 48000 | -23000 |

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|---|---|---|---|---|---|---|---|
| 63. | Gangavathi | Navali | Chikkadankanakal | Turaganna Kuri | 10000 | 35000 | -25000 |
| 64. | Gangavathi | Navali | Chikkadankanakal | Hachappa | 5000 | 25000 | -20000 |
| 65. | Gangavathi | Navali | Chikkadankanakal | Hanumanthappa | 3000 | 22000 | -19000 |
| 66. | Gangavathi | Navali | Chikkadankanakal | Siddamma | 3000 | 20000 | -17000 |
| 67. | Gangavathi | Navali | Chikkadankanakal | Manjunath Ishappa | 15000 | 35000 | -20000 |
| 68. | Gangavathi | Navali | Chikkadankanakal | Satyanarayana | 25000 | 42000 | -17000 |
| 69. | Gangavathi | Navali | Chikkadankanakal | Chandrayya Laxmayya | 20000 | 40000 | -20000 |
| 70. | Gangavathi | Navali | Chikkadankanakal | Yallalingappa Danappa | 20000 | 43000 | -23000 |
| 71. | Gangavathi | Navali | Chikkadankanakal | Amarappa Shekharappa | 40000 | 52000 | -12000 |
| 72. | Gangavathi | Navali | Chikkadankanakal | Manjunath Timmanna | 30000 | 48000 | -18000 |
| 73. | Gangavathi | Navali | Chikkadankanakal | Karibirappa Kodenakal | 20000 | 41000 | -21000 |
| 74. | Gangavathi | Navali | Chikkadankanakal | Nagesh Laxmayya | 25000 | 49000 | -24000 |
| 75. | Gangavathi | Navali | Chikkadankanakal | Venkanagouda Chidanandappa | 20000 | 43000 | -23000 |
| 76. | Gangavathi | Navali | Chikkadankanakal | Gudadappa S/o Shivalingappa Jeeral | 300000 | 250000 | 50000 |
| 77. | Gangavathi | Navali | Chikkadankanakal | Shivanna Goudar S/o Somanna | 320000 | 280000 | 40000 |
| 78. | Gangavathi | Navali | Chikkadankanakal | Yankanna S/o Timanna | 120000 | 115000 | 5000 |

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| 79. | Gangavathi | Navali | Chikkadankanakal | Veeresh S/o Andanappa Balegar | 50000 | 55000 | -5000 |
| 80. | Gangavathi | Navali | Chikkadankanakal | Lakshman S/o Sidappa | 100000 | 96000 | 4000 |
| 81. | Gangavathi | Navali | Chikkadankanakal | Sidlingappa S/o Mudiyappa Bevinagida | 30000 | 22000 | -19000 |
| 82. | Gangavathi | Navali | Chikkadankanakal | Shankar Gouda G S/o Rudra Gouda | 1000000 | 800000 | 200000 |
| 83. | Gangavathi | Navali | Chikkadankanakal | Sharanabasava S/o Venkubanna | 150000 | 120000 | 30000 |
| 84. | Gangavathi | Navali | Chikkadankanakal | Jagadeesh S/o Balanagouda | 200000 | 170000 | 30000 |
| 85. | Gangavathi | Navali | Chikkadankanakal | Basavaraj S/o Hanumantappa | 60000 | 65000 | -5000 |
| 86. | Gangavathi | Navali | Chikkadankanakal | Venkatesh S/o Balayya | 160000 | 150000 | 10000 |
| 87. | Gangavathi | Navali | Chikkadankanakal | Veeresh S/o Venkubanna Payati | 80000 | 75000 | 5000 |
| 88. | Gangavathi | Navali | Chikkadankanakal | Sharanappa S/o Balappa Tippanala | 250000 | 225000 | 25000 |
| 89. | Gangavathi | Navali | Chikkadankanakal | Bhaskar Rao S/o Kasaiah | 150000 | 135000 | 15000 |
| 90. | Gangavathi | Navali | Chikkadankanakal | Hire Hanumantappa S/o Hanumana gouda | 350000 | 310000 | 40000 |
| 91. | Gangavathi | Navali | Chikkadankanakal | Nagabhusahan S/o Balayya | 150000 | 130000 | 20000 |
| 92. | Gangavathi | Navali | Chikkadankanakal | Mudukappa Bajantri S/o Erappa | 150000 | 125000 | 25000 |

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| 93. | Gangavathi | Navali | Chikkadankanakal | Bheemana Gouda S/o Lachmana Gouda | 150000 | 135000 | 15000 |
| 94. | Gangavathi | Navali | Chikkadankanakal | Hussen Sab S/o Yamunar Sab | 200000 | 160000 | 40000 |
| 95. | Gangavathi | Navali | Chikkadankanakal | Govindraj S/o Venkubanna | 100000 | 90000 | 10000 |
| 96. | Gangavathi | Navali | Chikkadankanakal | Hanumantappa Jeerala Dhani S/o Sanna Venkobanna | 215000 | 190000 | 25000 |
| 97. | Gangavathi | Navali | Chikkadankanakal | Chandru Nair S/o Venkobanna | 500000 | 350000 | 150000 |
| 98. | Gangavathi | Navali | Chikkadankanakal | Nagesh S/o Eshappa Singanal | 60000 | 70000 | -10000 |
| 99. | Gangavathi | Navali | Chikkadankanakal | Mutturaja S/o Venkobanna | 110000 | 95000 | 15000 |
| 100. | Gangavathi | Navali | Chikkadankanakal | Hanumanta S/o Lakshman | 100000 | 90000 | 10000 |
| 101. | Kustagi | Tavagera | Maddalagundi | Basavanagouda | 50,000-1,00,000 | 60000 | 40000 |
| 102. | Kustagi | Tavagera | Maddalagundi | Shekargouda | 50,000-1,00,000 | 75000 | 25000 |
| 103. | Kustagi | Tavagera | Maddalagundi | Shivaputrayya | 50,000-1,00,000 | 70000 | 30000 |
| 104. | Kustagi | Tavagera | Maddalagundi | Ayyanagouda | 1,00,000 – 2,00,000 | 150000 | 50000 |
| 105. | Kustagi | Tavagera | Maddalagundi | Basavanagouda | 1,00,000-2,00,000 | 140000 | 60000 |
| 106. | Kustagi | Tavagera | Maddalagundi | Hanumagouda | 50,000-1,00,000 | 85000 | 15000 |

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| 107. | Kustagi | Tavagera | Maddalagundi | Popanna Hosalli | 50,000-1,00,000 | 90000 | 10000 |
| 108. | Kustagi | Tavagera | Maddalagundi | Muradana gouda | 1,00,000 | 85000 | 15000 |
| 109. | Kustagi | Tavagera | Maddalagundi | Doddanagouda Patil | 50,000-1,00,000 | 78000 | 22000 |
| 110. | Kustagi | Tavagera | Maddalagundi | Chandru Halageri | 50,000-1,00,000 | 81000 | 19000 |
| 111. | Kustagi | Tavagera | Maddalagundi | Jobanagouda | 1,00,000 | 92000 | 8000 |
| 112. | Kustagi | Tavagera | Maddalagundi | Basanagouda | 2,00,000 | 165000 | 35000 |
| 113. | Kustagi | Tavagera | Maddalagundi | Kudleppa | 50,000 | 60000 | -10000 |
| 114. | Kustagi | Tavagera | Maddalagundi | Balappa | 50,000 | 62000 | -12000 |
| 115. | Kustagi | Tavagera | Maddalagundi | Somanagouda | 50,000 | 68000 | -18000 |
| 116. | Kustagi | Tavagera | Maddalagundi | Ashok | 80,000 | 75000 | -5000 |
| 117. | Kustagi | Tavagera | Maddalagundi | Manthesh | 50000 | 62000 | -12000 |
| 118. | Kustagi | Tavagera | Maddalagundi | Laxmi | 100000 | 88000 | 12000 |
| 119. | Kustagi | Tavagera | Maddalagundi | Nagangouda | 50000 | 63000 | -13000 |
| 120. | Kustagi | Tavagera | Maddalagundi | Chandrashekhargouda | 1,00,000 | 93000 | 7000 |
| 121. | Kustagi | Tavagera | Maddalagundi | Doddabasanagouda | 60000 | 71000 | -11000 |
| 122. | Kustagi | Tavagera | Maddalagundi | Kudleppa | 50000 | 68000 | -12000 |
| 123. | Kustagi | Tavagera | Maddalagundi | Nagappa Topalakatti | 60000 | 72000 | -12000 |

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|---|---|---|---|---|---|---|---|
| 124. | Kustagi | Tavagera | Maddalagundi | Doddanagouda | 50000 | 65000 | -15000 |
| 125. | Kustagi | Tavagera | Maddalagundi | Hanumanthappa | 50000 | 62000 | -12000 |
| 126. | Kustagi | Tavagera | Maddalagundi | Amare gouda S/o Shankra gouda cahgabavi | 50000 | 61000 | -11000 |
| 127. | Kustagi | Tavagera | Maddalagundi | Udas gouda s/o Pampana gouda | 55000 | 62000 | -7000 |
| 128. | Kustagi | Tavagera | Maddalagundi | Pampapathi S/o Devaraddappa Hosalli | 350000 | 260000 | 90000 |
| 129. | Kustagi | Tavagera | Maddalagundi | Doddana gouda S/o Sharanappa gouda | 60000 | 66000 | -6000 |
| 130. | Kustagi | Tavagera | Maddalagundi | Shekarappa S/o Pampappa Hosalli | 75000 | 72000 | 3000 |
| 131. | Kustagi | Tavagera | Maddalagundi | Rajashaekarayya S/o Shivaputrayya hiremat | 55000 | 62000 | -7000 |
| 132. | Kustagi | Tavagera | Maddalagundi | Shekar gouda S/o Virupaksha gouda mali patil | 75000 | 71000 | 4000 |
| 133. | Kustagi | Tavagera | Maddalagundi | Nagappa S/o Tipanna | 75000 | 69000 | 6000 |
| 134. | Kustagi | Tavagera | Maddalagundi | Amarappa S/o Nagappa | 25000 | 38000 | -13000 |
| 135. | Kustagi | Tavagera | Maddalagundi | Desayappa S/o Ramappa Dasar | 50000 | 64000 | -14000 |
| 136. | Kustagi | Tavagera | Maddalagundi | Nagappa S/o Bimappa kellur | 50000 | 59000 | -9000 |
| 137. | Kustagi | Tavagera | Maddalagundi | Sharanappa S/o Hanama gouda | 35000 | 51000 | 16000 |

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| 138. | Kustagi | Tavagera | Maddalagundi | Hanumappa S/o Goudappa | 30000 | 42000 | 12000 |
| 139. | Kustagi | Tavagera | Maddalagundi | Doddappa S/oYenkappa kelluru | 35000 | 48000 | -13000 |
| 140. | Kustagi | Tavagera | Maddalagundi | Birappa S/o Gyanappa | 60000 | 73000 | 13000 |
| 141. | Kustagi | Tavagera | Maddalagundi | Ayyana gouda S/o Devareddappa | 150000 | 130000 | 20000 |
| 142. | Kustagi | Tavagera | Maddalagundi | Kudleppa S/o Bimappa | 50000 | 64000 | -14000 |
| 143. | Kustagi | Tavagera | Maddalagundi | Amare Gouda S/o Shekara gouda | 75000 | 71000 | 4000 |
| 144. | Kustagi | Tavagera | Maddalagundi | Eramma W/o Nagappa chagabavi | 80000 | 72000 | 8000 |
| 145. | Kustagi | Tavagera | Maddalagundi | Nagana gouda S/o Hanumana gouda mali patil | 65000 | 62000 | 3000 |
| 146. | Kustagi | Tavagera | Maddalagundi | Gururaj S/o Bindu rao | 75000 | 70000 | 5000 |
| 147. | Kustagi | Tavagera | Maddalagundi | Doddana gouda S/o Pampana gouda | 65000 | 60000 | 5000 |
| 148. | Kustagi | Tavagera | Maddalagundi | Basavana gpuda S/o Sharanappa | 150000 | 125000 | 25000 |
| 149. | Kustagi | Tavagera | Maddalagundi | Shivaputrayya S/o Siddaya | 100000 | 88000 | 12000 |
| 150. | Kustagi | Tavagera | Maddalagundi | Ayyana Gouda S/o Deva reddappa | 155 000 | 130000 | 25000 |
| 151. | Yelaburga | Mangaluru | Vataparavi | Ramanagouda gouder S/o Hanumantappa goudara | 150000 | 120000 | 30000 |

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|---|---|---|---|---|---|---|---|
| 152. | Yelaburga | Mangaluru | Vataparavi | Shekarappa S Kolaji | 200000 | 150000 | 50000 |
| 153. | Yelaburga | Mangaluru | Vataparavi | Hanumana gouda S/o Virupana gouda police patil | 300000 | 220000 | 80000 |
| 154. | Yelaburga | Mangaluru | Vataparavi | Eshappa S/o Pampana gouda goudara | 50000 | 66000 | -16000 |
| 155. | Yelaburga | Mangaluru | Vataparavi | M.Keshav kumar S/o Shivabasappa | 250000 | 190000 | 60000 |
| 156. | Yelaburga | Mangaluru | Vataparavi | Dyamanna kuduri kotigi | 350000 | 240000 | 110000 |
| 157. | Yelaburga | Mangaluru | Vataparavi | Narshappa kashi S/o Yankappa | 200000 | 175000 | 25000 |
| 158. | Yelaburga | Mangaluru | Vataparavi | Basappa kudara kotigi S/o Nilappa | 250000 | 180000 | 70000 |
| 159. | Yelaburga | Mangaluru | Vataparavi | Badappa Talvar S/o Narashappa | 150000 | 135000 | 15000 |
| 160. | Yelaburga | Mangaluru | Vataparavi | Hanumantappa Mataladinni S/o siddappa | 200000 | 145000 | 55000 |
| 161. | Yelaburga | Mangaluru | Vataparavi | Sham Huchappa kashi | 250000 | 195000 | 55000 |
| 162. | Yelaburga | Mangaluru | Vataparavi | Hanumanta G. Kasi | 200000 | 160000 | 40000 |
| 163. | Yelaburga | Mangaluru | Vataparavi | Vinoda K S/o Eshappa | 150000 | 130000 | 20000 |
| 164. | Yelaburga | Mangaluru | Vataparavi | Basavaraja S/o Balappa goudara | 150000 | 125000 | 25000 |
| 165. | Yelaburga | Mangaluru | Vataparavi | Sharanappa S/o Shivappa Kolaji | 215000 | 175000 | 40000 |
| 166. | Yelaburga | Mangaluru | Vataparavi | Timanna S/o Hanumantappa kulegere | 100000 | 85000 | 15000 |
| 167. | Yelaburga | Mangaluru | Vataparavi | Hanumana gouda S/o Pampana gouda mali patil | 200000 | 130000 | 70000 |

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|---|---|---|---|---|---|---|---|
| 168. | Yelaburga | Mangaluru | Vataparavi | Mailarappa S/o Kudare kotigi | 225000 | 180000 | 45000 |
| 169. | Yelaburga | Mangaluru | Vataparavi | Mounesh C.Lamani | 250000 | 185000 | 40000 |
| 170. | Yelaburga | Mangaluru | Vataparavi | Shekrappa N.L | 150000 | 125000 | 25000 |
| 171. | Yelaburga | Mangaluru | Vataparavi | Prabu raj S. kolar | 300000 | 230000 | 70000 |
| 172. | Yelaburga | Mangaluru | Vataparavi | Durgappa S/o Gudeagouda | 80000 | 78000 | 2000 |
| 173. | Yelaburga | Mangaluru | Vataparavi | Shekrappa T.K | 100000 | 82000 | 18000 |
| 174. | Yelaburga | Mangaluru | Vataparavi | Ningappa lamani | 115000 | 84000 | 31000 |
| 175. | Yelaburga | Mangaluru | Vataparavi | Hanumanta gouda S/o Balappa gouda | 150000 | 120000 | 30000 |
| 176. | Yelaburga | Mangaluru | Vataparavi | Hanumantha M | 110000 | 100000 | 10000 |
| 177. | Yelaburga | Mangaluru | Vataparavi | Hulegamma mali patil | 250000 | 210000 | 40000 |
| 178. | Yelaburga | Mangaluru | Vataparavi | Sharanappa Harijan | 300000 | 230000 | 70000 |
| 179. | Yelaburga | Mangaluru | Vataparavi | Laxmappa shivappa Harijan | 250000 | 190000 | 60000 |
| 180. | Yelaburga | Mangaluru | Vataparavi | Mahanteshappa S/o Virupanna Kudure kotigi | 315000 | 250000 | 65000 |
| 181. | Yelaburga | Mangaluru | Vataparavi | Prabu raj kademani S/o Mariyamma | 125000 | 110000 | 15000 |
| 182. | Yelaburga | Mangaluru | Vataparavi | Devappa S/o Bemapapa bhavi | 250000 | 200000 | 50000 |
| 183. | Yelaburga | Mangaluru | Vataparavi | Yamunurappa | 350000 | 250000 | 100000 |
| 184. | Yelaburga | Mangaluru | Vataparavi | Hanumantappa Shivappa kolaji | 250000 | 190000 | 60000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 185. | Yelaburga | Mangaluru | Vataparavi | Ningappa .S S/o Shivappa kolaji | 350000 | 240000 | 110000 |
| 186. | Yelaburga | Mangaluru | Vataparavi | Husenasab Takalakoti S/o Honurasab | 315000 | 260000 | 55000 |
| 187. | Yelaburga | Mangaluru | Vataparavi | Eshappa S/o Ningappa kolaji | 325000 | 250000 | 75000 |
| 188. | Yelaburga | Mangaluru | Vataparavi | Basappa S/o Pampanna badeger | 250000 | 175000 | 75000 |
| 189. | Yelaburga | Mangaluru | Vataparavi | Mounesh lamani | 300000 | 220000 | 80000 |
| 190. | Yelaburga | Mangaluru | Vataparavi | Madanappa S/o Mukanna gurekar | 350000 | 250000 | 100000 |
| 191. | Yelaburga | Mangaluru | Vataparavi | Durgappa Karayakappa S/o Doddamani | 250000 | 220000 | 30000 |
| 192. | Yelaburga | Mangaluru | Vataparavi | Nagaraj S/o Narshappa doddamani | 250000 | 200000 | 50000 |
| 193. | Yelaburga | Mangaluru | Vataparavi | Maratappa | 275000 | 210000 | 65000 |
| 194. | Yelaburga | Mangaluru | Vataparavi | Hire Huchappa | 250000 | 200000 | 50000 |
| 195. | Yelaburga | Mangaluru | Vataparavi | Hanumantappa Basappa | 250000 | 190000 | 60000 |
| 196. | Yelaburga | Mangaluru | Vataparavi | Amarappa | 315000 | 260000 | 55000 |
| 197. | Yelaburga | Mangaluru | Vataparavi | Narasappa S/o Badappa Talvar | 325000 | 250000 | 75000 |
| 198. | Yelaburga | Mangaluru | Vataparavi | Eshappa S/o Hanumana gouda | 300000 | 210000 | 90000 |
| 199. | Yelaburga | Mangaluru | Vataparavi | Hanumana gouda S/o Virupana Gouda | 150000 | 130000 | 20000 |
| 200. | Yelaburga | Mangaluru | Vataparavi | Hanumana gouda Tikal | 200000 | 160000 | 40000 |

**2.10 Priority thrust areas**

| S. No | Thrust area |
|---|---|
| 1 | Integrated Crop Management |
| 2 | Integrated Disease management |
| 3 | Integrated Pest Management |
| 4 | Integrated Nutrient Management |
| 5 | Varietal evaluation |
| 6 | Variety demonstration |
| 7 | Demonstration of disease resistant high yielding hybrid |
| 8 | Drudgery reduction |
| 9 | Mushroom production |
| 10 | Hybrid Evaluation |
| 11 | Crop Diversification |
| 12 | Processing and value addition |
| 13 | Water management |
| 14 | Reproductive management |
| 15 | Health management |
| 16 | Marketing linkage |

# 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 |
| 3 | 3 | 13 | 13 | 24 | 24 | 275 | 275 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Training | | | | Extension Programmes | | | |
|---|---|---|---|---|---|---|---|
| 3 | | | | 4 | | | |
| Courses (No.) | | Participants (No.) | | Programmes (No.) | | Participants (No.) | |
| Target | Achievement | Target | Achievement | Target | Achievement | Target | Achievement |
| 46 | 46 | 1552 | 1552 | 3603 | 3603 | 6670 | 6670 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Seed Production (Q) | | Planting material (Nos.) | |
|---|---|---|---|
| 5 | | 6 | |
| Target | Achievement | Target | Achievement |
| 702.0 ( bulk) | 702.0 (bulk) | 774 | 774 |
| 350 | 350 | | |

| Livestock, poultry strains and fingerlings (No.) | | Bio-products (Kg) | |
|---|---|---|---|
| 7 | | 8 | |
| Target | Achievement | Target | Achievement |
| 2170.3 liter | 2170.3 liter | 39.14 | 39.14 |
| | | | |
| | | | |
| | | | |

**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 Training (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 |
| 1 | Improved variety | Cowpea | ▪ Low yield<br>▪ BLB<br>▪ Pod borer | Assessment of new mustard varieties and sesame crop for paddy fallows | - | 1 | - | - | 1 | 0.30 | - | - | - | - |
| 2 | Alternate cropping system | Mustard | ▪ Lack of awareness of suitable crops for Paddy fallows<br>▪ Lack of awareness of suitable varieties of mustard crop for paddy fallows | Assessment of new cowpea varieties | - | 1 | - | - | 1 | 0.075 | - | - | - | - |
| 3 | Improved variety | Okra | • Non availability of high yielding YVMV tolerant variety | Assessment of hybrids in okra | - | 1 | - | - | 1 | 0.09 | - | - | - | - |
| 4 | DSR | Paddy | ▪ Scarcity of water for tail end farmers<br>▪ Weed problem<br>▪ Excess use of fertilizers & pesticides<br>▪ Labour problem<br>High COC | | Good agricultural practices in Direct seeded rice | 1 | - | - | 2 | - | - | - | - | - |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | Improved variety | Paddy | ▪ Lack of awareness of short duration varieties<br>▪ Low yield<br>High incidence of blast diseases | | Paddy new variety GNV-10-89 | 1 | - | - | 2 | 2.5 | - | - | - | - |
| 6 | Nutrient management | Paddy | ▪ Excess use of N fertilizers<br>▪ (200-250 % then RDF)<br>▪ Loss of N to the extent of 50-60 %,<br>No precise application of nitrogenous fertilizers | | LCC for real time nitrogen management in paddy | 1 | - | - | 3 | - | - | - | - | - |
| 7 | Water saving technology | Paddy | ▪ Excess use of water<br>▪ 50 % water can be saved<br>Lake of awareness of water saving techniques | | Water saving technique : alternate wetting & drying (AWD) in paddy | 1 | - | - | 2 | - | - | - | - | - |
| 8 | Improved variety | Paddy | Lack of awareness of salt tolerant variety | | Salt tolerant variety of Paddy GGV-05-01 | 1 | - | - | 2 | 2.5 | - | - | - | - |
| 9 | Improved variety | Paddy | Lack of awareness of short duration slender grain variety | | Paddy variety RNR-15048 | 1 | - | - | 2 | 2.5 | - | - | - | - |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | IPDM | Paddy | Resurgence of BPH in Paddy severity of Bacterial Blight disease. Introduction of Resistant Variety | | IPDM in paddy | 1 | - | - | 2 | 2.5 | | | 20 lit | 20 kg |
| 11 | Green manure | Green manure crops | • Less crop rotation in paddy fallows<br>• Less nitrogen fixation<br>• Soil erosion Low soil fertility | | Green manure seed production (Dhancha and Pillepesaru) in paddy fallows | 1 | - | - | 1 | 4.0 | - | - | - | - |
| 12 | Pest management | Maize/ Jawar | Invasive pest | | Management of fall armyworm in maize/jowar | 1 | - | - | 1 | - | - | - | - | 10 kg |
| 13 | New variety | Little millet | Lack of awareness of high yielding varieties | | Little millet variety DHLM 36-3 | 1 | - | - | 1 | 0.5 | - | - | - | - |
| 14 | New variety | Brown top millet | Lack of awareness of high yielding varieties | | Brown top millet variety HBK-1 | 1 | - | - | 1 | 0.5 | - | - | - | - |
| 15 | New variety | Foxtail Millet | Lack of awareness of high yielding varieties | | Foxtail millet variety HN-46 and value addition | 1 | - | - | 1 | 0.3 | - | - | - | 2 kg |
| 16 | Disease management | Bengalgram | Farmers not aware of seed treatment with new fungicides | | Management of dry root rot and wilt complex in bengalgram | 1 | - | - | 1 | - | - | - | - | 20 kg |
| 17 | Disease management | Guava | Nametode and wilt | | Demonstration and management of wilt complex in Guava | 1 | - | - | 1 | - | - | - | - | 25kg |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18 | New variety | Tuberose | ▪ Cultivation of local variety Low yield | | Introduction of Tuberose variety Arka Prajwal | 1 | - | - | 2 | | 240 kg | - | - | - |
| 19 | New variety | Onion | • Cultivation of local variety Low yield | | Onion variety Bhima Dark Red | 1 | - | - | 2 | 0.1 | - | - | - | - |
| 20 | Fodder | Silage barrel | lack of awareness on fodder preservation technologies | | Silage preparation for stall fed sheep/goat units | 1 | - | - | 1 | - | - | - | - | - |
| 21 | Animal breeding | Cattle/ Buffalo | Repeat breeding in cows and buffaloes | | Impregnated nano fibers for induction of oestrus in repeat breeding cows/buffaloes | 1 | - | - | 1 | - | - | - | - | - |
| 22 | Nutrient management for sheep & goat | Sheep & goat | low body growth and prone to deficiency diseases | | Species specific mineral mixture for small ruminants in intensive system of rearing | 1 | - | - | 1 | - | - | - | - | - |
| 23 | Dairy management | Dairy | ▪ Low milk yield<br>▪ Low SNF & Fat % | | Integrated Dairy Management | 1 | - | - | 2 | - | - | - | - | - |
| 24 | Fish rearing | Fish | Lack of awareness of high value fish production in short duration | | All male Tilapia fish in farm ponds | 1 | - | - | 1 | - | - | 5000 nos | - | - |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | Protective clothing | Functional Cloth | Harmful health hazards viz.,<br><br>Cuts and wounds, itching, Irritation mainly to hands and as well to other parts of the body during harvesting, threshing and winnowing activities | | Functional clothing for agricultural activities | 1 | - | - | 1 | - | - | - | - | - |
| 26 | Crop cafeteria | Crop cafeteria | Market glut and low prices due to mono cropping in vegetables | | Vegetable crop cafeteria with improved varieties | 1 | - | - | 2 | 0.0625 | - | - | - | 5 kg |
| 27 | Storage technology | Grain storage | Grain loss storage | | Super grain bags for storage of seeds | 1 | - | - | 1 | - | - | - | - | - |

**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 (Extn Activities) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1. | Assessment of new mustard varieties and sesame crop for paddy fallows | DORMR, Bharatpur Rajasthan | Mustard | 1 | | - | 1 |
| 2. | Assessment of new cowpea varieties | UAS, Dharwad | Cowpea | 1 | | 1 | 1 |
| 3. | Assessment of hybrids in okra | TNAU, Coimbatore | Okra | 1 | | 1 | 1 |
| 4. | Good agricultural practices in Direct seeded rice | UAS, Dharwad & Raichur | Paddy | | 1 | 1 | 3 |
| 5. | Paddy new variety GNV-10-89 | UAS Raichur | Paddy | | 1 | 1 | 3 |
| 6. | LCC for real time nitrogen management in paddy | IIRI, Hyderabad | Paddy | | 1 | 1 | 4 |
| 7. | Water saving technique : alternate wetting & drying (AWD) in paddy | UAS Raichur | Paddy | | 1 | 1 | 5 |
| 8. | Salt tolerant variety of Paddy GGV-05-01 | UAS Raichur | Paddy | | 1 | 1 | 3 |
| 9. | Paddy variety RNR-15048 | UAS Raichur | Paddy | | 1 | 1 | 3 |
| 10. | IPDM in paddy | UAS Raichur | Paddy | | 1 | 1 | 4 |
| 11. | Green manure seed production (Dhancha and Pillepesaru) in paddy fallows | UAS, Dharwad & Raichur | Green manure crops | | 1 | 1 | 2 |
| 12. | Management of fall armyworm in maize/jowar | UAS Raichur | Maize/ Jawar | | 1 | 1 | 5 |
| 13. | Little millet variety DHLM 36-3 | UAS, Dharwad | Little millet | | 1 | - | - |
| 14. | Brown top millet variety HBK-1 | UAS Raichur | Brown top millet | | 1 | 1 | 2 |
| 15. | Foxtail millet variety HN-46 and value addition | UAS Raichur and UAS Dharwad | Foxtail Millet | | 1 | 1 | 2 |
| 16. | Management of dry root rot and wilt complex in bengalgram | UAS, Raichur | Bengalgram | | 1 | 1 | 4 |
| 17. | Demonstration and management of wilt complex in Guava | IIHR Bengaluru | Guava | | 1 | - | 6 |
| 18. | Introduction of Tuberose variety Arka Prajwal | IIHR Bengaluru | Tuberose | | 1 | 1 | 5 |
| 19. | Onion variety Bhima Dark Red | DOGR, Pune | Onion | | 1 | 1 | 3 |
| 20. | Silage preparation for stall fed sheep/goat units | KVAFSU, Bidar | Silage barrel | | 1 | 1 | 4 |
| 21. | Impregnated nano fibers for induction of oestrus in repeat breeding cows/buffaloes | TANUVAS, Chennai | Cattle/ Buffalo | | 1 | 1 | 4 |
| 22. | Species specific mineral mixture for small ruminants in intensive system of rearing | NIANP, Bangalore | Sheep & goat | | 1 | 1 | 4 |
| 23. | Integrated Dairy Management | Dept of AH&VS | Dairy | | 1 | 1 | 4 |
| 24. | All male Tilapia fish in farm ponds | UAS, Bengaluru | Fish | | 1 | 1 | 4 |
| 25. | Functional clothing for agricultural activities | AICRP-HSc (CT), UAS, Dharwad | Functional Cloth | | 1 | 1 | 2 |
| 26. | Vegetable crop cafeteria with improved varieties | UAS,Bangalore | Crop cafeteria | | 1 | 1 | 2 |
| 27. | Super grain bags for storage of seeds | PCI,india | Grain storage | | 1 | 1 | 2 |

**3.B2 contd..**

| | No. of farmers covered | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OFT | | | | FLD | | | | Training | | | | Others (Extn Activities) | | | |
| | General | | SC/ST | | General | | SC/ST | | General | | SC/ST | | General | | SC/ST | |
| | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| Assessment of new mustard varieties and sesame crop for paddy fallows | 5 | | | | | | | | | | | | 3 | | | |
| Assessment of new cowpea varieties | 5 | | | | | | | | 10 | | 5 | | 5 | | | |
| Assessment of hybrids in okra | 2 | | 2 | | | | | | 8 | | 4 | | 2 | | 2 | |
| Good agricultural practices in Direct seeded rice | | | | | 8 | | 2 | | 12 | | 5 | | 40 | 5 | 10 | 5 |
| Paddy new variety GNV-10-89 | | | | | 6 | 1 | 3 | | 12 | | 6 | | 4 | 1 | 3 | |
| LCC for real time nitrogen management in paddy | | | | | 15 | 2 | 2 | 1 | 15 | 2 | 3 | 1 | 42 | 6 | 11 | 7 |
| Water saving technique : alternate wetting & drying (AWD) in paddy | | | | | 10 | | 8 | 2 | 13 | 3 | 8 | 2 | 44 | 3 | 8 | 4 |
| Salt tolerant variety of Paddy GGV-05-01 | | | | | 7 | 3 | | | 15 | 3 | 3 | | 38 | 5 | 10 | 6 |
| Paddy variety RNR-15048 | | | | | 9 | 1 | | | 12 | 3 | 2 | 2 | 45 | 5 | 12 | 4 |
| IPDM in paddy | | | | | 9 | 1 | | | 25 | 2 | 15 | 3 | 52 | 8 | 15 | 3 |
| Green manure seed production (Dhancha and Pillepesaru) in paddy fallows | | | | | 12 | | 8 | | 15 | 3 | 10 | 1 | 10 | | 5 | |
| Management of fall armyworm in maize/jowar | | | | | 7 | | 3 | | 22 | | 7 | | 12 | | 6 | |
| Little millet variety DHLM 36-3 | | | | | 5 | | | | | | | | 5 | | | |
| Brown top millet variety HBK-1 | | | | | 6 | | | | 15 | | 2 | | 6 | | | |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Foxtail millet variety HN-46 and value addition | | | | | 11 | 3 | 2 | | 18 | 2 | 5 | 1 | 10 | 2 | 1 | |
| Management of dry root rot and wilt complex in bengalgram | | | | | 8 | 2 | | | 22 | 1 | 6 | | 12 | 1 | 2 | |
| Demonstration and management of wilt complex in Guava | | | | | 5 | | | | | | | | 6 | - | - | - |
| Introduction of Tuberose variety Arka Prajwal | | | | | 3 | - | - | - | 16 | 3 | 5 | - | 34 | 4 | 9 | 3 |
| Onion variety Bhima Dark Red | | | | | 5 | - | - | - | 10 | 2 | 6 | - | 6 | - | -- | - |
| Silage preparation for stall fed sheep/goat units | | | | | 5 | - | 5 | - | 24 | - | 11 | - | 7 | - | 8 | - |
| Impregnated nano fibers for induction of oestrus in repeat breeding cows/buffaloes | | | | | 4 | - | 6 | - | 15 | - | 7 | - | 10 | - | 6 | - |
| Species specific mineral mixture for small ruminants in intensive system of rearing | | | | | 4 | - | 6 | - | 13 | - | 8 | - | 12 | - | 7 | - |
| Integrated Dairy Management | | | | | 3 | - | - | - | 42 | - | 13 | - | 6 | - | - | - |
| All male Tilapia fish in farm ponds | | | | | 4 | - | 1 | - | 18 | - | 6 | - | 4 | - | 1 | - |
| Functional clothing for agricultural activities | | | | | - | 35 | - | 5 | - | 18 | - | 3 | - | 12 | - | 2 |
| Vegetable crop cafeteria with improved varieties | | | | | 2 | 1 | 2 | - | 15 | 2 | 4 | 2 | 6 | 1 | 4 | - |
| Super grain bags for storage of seeds | | | | | - | 7 | - | 3 | - | 18 | - | 6 | - | 2 | - | 2 |

# PART IV - On Farm Trial(2020)

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

| Thematic areas | Cereals | Oilseeds | Pulses | Commercial Crops | Vegetables | Fruits | Flower | Plantation crops | Tuber Crops | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| Integrated Nutrient Management | - | - | - | - | - | - | - | - | - | - |
| Varietal Evaluation | - | 1 | 1 | - | 1 | - | - | - | - | 3 |
| 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 | - | - | - | - | - | - | - | - | - | - |
| Cropping Systems | - | - | - | - | - | - | - | - | - | - |
| Farm Mechanization | - | - | - | - | - | - | - | - | - | - |
| Mushroom cultivation | - | - | - | - | - | - | - | - | - | - |
| others | - | - | - | - | - | - | - | - | - | - |
| Total | **-** | **1** | **1** | **-** | **1** | | | **-** | **-** | **3** |

**4.A2. Abstract on the number of technologies refined in respect of crops**

| Thematic areas | Cereals | Oilseeds | Pulses | Commercial Crops | Vegetables | Fruits | Flower | Plantation crops | Tuber Crops | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 | - | - | - | - | - | - | - | - | - | - |
| Cropping Systems | - | - | - | - | - | - | - | - | - | - |
| Farm Mechanization | - | - | - | - | - | - | - | - | - | - |
| Mushroom cultivation | - | - | - | - | - | - | - | - | - | - |
| Others | - | - | - | - | - | - | - | - | - | - |
| **Total** | - | - | - | - | - | - | - | - | - | - |

**4.A3. Abstract on the number of technologies assessed in respect of livestock**

| 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) | - | - | - | - | - | - |
| **TOTAL** | - | - | - | - | - | - |

**4.A4. Abstract on the number of technologies refined in respect of livestock**

| 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) | - | - | - | - | - | - |
| **TOTAL** | - | - | - | - | - | - |

## 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 / locations | Area in ha (Per trial covering all Technological Options in a farm) |
|---|---|---|---|---|---|
| Integrated Nutrient Management | - | - | - | - | - |
| | - | - | - | - | - |
| Varietal Evaluation | Mustard | Assessment of new Mustard varieties for paddy fallows | 5 | 5 | 1 ha |
| | Cowpea | Assessment of new Cowpea varieties | 5 | 5 | 1 ha |
| Integrated Pest Management | Okra | Assessment of hybrid in Okra | 3 | 3 | 1.2 ha |
| | - | - | - | - | - |
| 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 | - | - | - | - | - |
| | - | - | - | - | - |
| **Total** | - | - | - | - | - |
| | - | - | **13** | **13** | **3.2** |

**4.B.2. Technologies Refined under various Crops**

| 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 | - | - | - | - | - |
| | - | - | - | - | - |
| **Total** | - | - | - | - | - |

**4.B.3. Technologies assessed under Livestock**

| 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 | - | - | - | - |
| **Total** | | | - | - |

**4.B.4. Technologies Refined under Livestock and other enterprises**

| 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 | - | - | - | - |
| **Total** | - | - | - | - |

4.B.5. T**echnologies assessed under various enterprises by KVKs**

| Sl.No | 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 (q/ha) | 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 |
| Mustard | Irrigated | Non availability of suitable varieties of mustard for paddy fallows | Assessment of new Mustard varieties for paddy fallows | 5 | | | | | | | | | |
| | | | | | TO1: Local Var. (Farmers practice) | Farmers practice | 4.65 | q/ ha | - | - | 18600 | 9150 | 1.97 |
| | | | | | TO2: - | - | - | - | - | - | - | - | -- |
| | | | | | TO3:NRCHB-101 Var. | DORMR, Bharatpur Rajasthan | 6.1 | q/ ha | - | - | 24400 | 14950 | 2.58 |
| | | | | | TO4:Pusa Mustard - 30 Var. | IARI, New Dehli | 5.35 | q/ ha | - | - | 21400 | 11950 | 2.26 |
| Cowpea | Irrigated | ▪ Low yield<br>▪ BLB<br>▪ Pod borer | Assessment of new Cowpea varieties | 5 | | | | | Haulm yield | No. of Pods/ plant | | | |
| | | | | | TO1: C-152 Var. | Farmers practice | 9 | q/ ha | | | 43200 | 15650 | 1.57 |
| | | | | | TO2: - | - | - | - | - | - | - | - | - |
| | | | | | TO3:IT-38956-1Var. | UAS, Bengaluru | 10.5 | q/ ha | | | 50400 | 23050 | 1.84 |
| | | | | | TO4: DC-15Var. | UAS, Dharwad | 11.3 | q/ ha | | | 54240 | 26950 | 1.98 |
| Okra | Irrigated | Non availability of high yielding and YVMV tolerent variety | Assessment of hybrid in Okra | 3 | | | | | % YVMB | No. fruits/ plant | | | |
| | | | | | TO1: local variety | Farmers practice | 144.36 | q/ ha | 11.33 | 23.21 | 360917 | 258000 | 3.5 |
| | | | | | TO2: CoBH4 | TNAU, Coimbatore | 185.67 | q/ ha | 5.33 | 28.60 | 464167 | 354277 | 4.22 |
| | | | | | TO3: Arka Nikhita | IIHR Bengaluru | 165.4 | q/ ha | 4.67 | 25.38 | 413500 | 306533 | 3.86 |
| | | | | | TO4: Phule Vimukta | MPKV, Rahuri | 157.87 | | 0 | 24.50 | 394917 | 303184 | 4.31 |

**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 |
|---|---|---|
| **Assessment of new Mustard varieties for paddy fallows** | Var.NRCHB-101 plants are of medium height (170-200 cm) and mature in 105 to 135 days under diverse agro-climatic situations. 1000-seed weight ranged from 3.6 – 6.2 g and oil content ranged from 34.6 to 42.1 percent over locations. NRCHB-101 var. recorded higher yield compared to PM-30 and local variety. | -- |
| **Assessment of new Cowpea varieties** | DC-15 var. short duration (75days), tolerant to aphids, wide adaptability from deep black to red loamy soil, tolerant to pod borer, moderate resistant to dry root rot and YMV, DC-15 var. was performed better than IT-38956-1Var. and C-152 Var. | -- |
| **Assessment of hybrid in Okra** | Arka Nikhita hybrid- No hair like structure on the fruit, preferred for harvesting and consumption. Phule Vimuktha expressed tolerance to YMV. | -- |

**4.C3. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)**

| | |
|---|---|
| 1. Title of Technology Assessed | **Assessment of new Mustard varieties for paddy fallows** |
| 2. Performance of the Technology on specific indicators | Grain yield of NRCHB-101 Var. was higher |
| 3.Specific Feedback from farmers | NRCHB-101 Var. was performed better |
| 4.Specific Feedback from Extension personnel and other stakeholders | Alternate cropping system in paddy |
| 5. Feedback to Research System based on results and feedback received | Short duration and disease resistant variety |

| | |
|---|---|
| 1. Title of Technology Assessed | **Assessment of new Cowpea varieties** |
| 2. Performance of the Technology on specific indicators | Grain yield of DC-15 var. was higher than C-152 Var.3 |
| 3.Specific Feedback from farmers | DC-15 var. was performed better than IT-38956-1Var. and C-152 Var |
| 4.Specific Feedback from Extension personnel and other stakeholders | Higher yield of DC-15 var. will fetch the good market price |
| 5. Feedback to Research System based on results and feedback received | Short duration and high yielding variety |

| | |
|---|---|
| 1. Title of Technology Assessed | **Assessment of hybrid in Okra** |
| 2. Performance of the Technology on specific indicators | Both the hybrids yielded more than the farmers practice |

3.Specific Feedback from farmers — No wound farming on hands during harvesting Arka Nikhitha Okra fruits

4.Specific Feedback from Extension personnel and other stakeholders — Both the hybrids yielded on par

5. Feedback to Research System based on results and feedback received — More number of hairs like structure was made difficult to harvest CoBH4 Okra fruits

### 4.D1. Results of Technologies Refined

| 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

| 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:**

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

# PART V - FRONTLINE DEMONSTRATIONS (2020)

**5.A. Summary of FLDs implemented**

| Sl. No. | Category | Farming Situation | Season | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Area (ha) | | Farmers (No.) | | Farmers (No.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Proposed | Actual | SC/ST | Others | Small/ Marginal | Others |
| | | | | | | | | | | | | | | |
| 1 | Oilseeds | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | |
| 2 | Pulses | | | | | | | | | | | | | |
| 2.1 | | Irrigated/ Rainfed | Rabi | Bengalgram | Local | - | Disease management | Management of dry root rot and wilt complex in Bengalgram | 4 | 4 | 2 | 8 | 8 | 2 |
| 3 | Cereals | | | | | | | | | | | | | |
| 3.1 | | Irrigated | Kharif | Paddy | Kaveri Sona | - | Reduced cost of cultivation and less usage of water | Demonstration of Direct Seeded Rice | 4 | 4 | 2 | 8 | 6 | 4 |
| 3.2 | | Irrigated | Kharif | Paddy | GNV-10-89 | - | High yielding and short duration variety | Demonstration of Paddy new variety GNV-10-89 | 4 | 4 | 3 | 07 | 9 | 1 |
| 3.3 | | Irrigated | Kharif | Paddy | GGV-05-01 | - | Salt tolerant variety | Demonstration of salt tolerant variety GGV-05-01 in Paddy | 4 | 4 | - | 10 | 8 | 2 |
| 3.4 | | Irrigated | Kharif | Paddy | RP BIO-226 | - | Resurgence of BPH in Paddy severity of Blast disease | Demonstration of IPDM in Paddy | 4 | 4 | - | 10 | 5 | 5 |
| 3.5 | | Irrigated | Kharif | Paddy | RNR-15048 | - | High yielding variety | Demonstration of Paddy new variety RNR-15048 | 4 | 4 | - | 10 | 7 | 3 |
| 3.6 | | Irrigated | Kharif | Paddy | BPT-5204 | - | Nutrient management | LCC for real time Nitrogen management in Paddy | 8 | 8 | 3 | 17 | 15 | 5 |
| 3.7 | | Irrigated | Kharif | Paddy | BPT-5204 | - | Water management | Water saving Technique: | 8 | 8 | 10 | 10 | 16 | 4 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Alternate wetting and drying (AWD) in Paddy | | | | | | |
| 3.8 | | Irrigated | Kharif/ Rabi | Maize | Local variety | - | Invasive pest | Management of fall armyworm in Maize | 4 | 4 | 3 | 07 | 8 | 2 |
| | | | | | | | | | | | | | | |
| 4 | Millets | Irrigated | Summer | Little millet | DHLM 36-3 | - | ICM | Demonstration of High Yielding Little millet Variety DHLM 36-3 | 4 | 4 | - | 5 | 5 | - |
| 4.1 | | Rainfed | Kharif | Foxtail Millet | HN-46 | - | ICM | Demonstration of Foxtail millet new variety HN-46 | 4 | 4 | 2 | 14 | 12 | 4 |
| 4.2 | | Rainfed | Kharif | Browntop millet | HBK-1 | - | Crop production | Demonstration of High Yielding Brown top Millet Variety HBK-1 | 4 | 4 | - | 7 | 7 | - |
| 5 | Vegetables | | | | | | | | | | | | | |
| 5.1 | | Irrigation | Kharif | Onion | Bhima Dark Red | - | High yielding variety | Demonstration of high yielding onion variety Bhima Dark Red | 2 | 2 | - | 5 | 5 | - |
| 5.2 | | Irrigation | Kharif | Vegetables | Vegetables kit | - | Nutrition garden | Vegetable crop cafeteria with improved varieties | 2 | 2 | 2 | 3 | 4 | 1 |
| 6 | Flowers | | | | | | | | | | | | | |
| 6.1 | | Irrigation | Rabi/ Summer | Tuberose | Arka Prajwal | - | High yielding variety | Demonstration of Tuberose variety Arka Prajwal | 1.2 | 1.2 | - | 3 | 2 | 1 |
| 7 | Fruit | | | | | | | | | | | | | |
| 7.1 | | Irrigation | Rabi/ Summer | Guava | Taiwan pink | - | Disease management | Demonstration and management of wilt complex in Guava | 2 | 2 | - | 5 | - | 5 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | Commercial | | | | | | | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9 | Spices and condiments | | | | | | | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | Medicinal and aromatic | | | | | | | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 | Fodder | | | | | | | | | | | | | |
| 11.1 | | - | - | Fodder | - | - | - | Demonstration on Silage preparation for stall fed sheep and Goat | 10 Demo | 10 Demo | 5 | 5 | 8 | 2 |
| 12 | Plantation | | | | | | | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 13 | Fibre | | | | | | | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14 | Dairy | | | | | | | | | | | | | |
| 14.1 | | - | - | Cows/ Buffaloes | - | - | - | Demonstration of "Impregnated Nanofibers" for induction of Oestrus in repeat breeding Cows/ Buffaloes | 20 Demo | 20 demo | 5 | 5 | 6 | 4 |
| 14.2 | | - | - | Cows/ Buffaloes | - | - | Integrated Dairy Management | Integrated Dairy Management | 10 demo | - | - | 3 | 3 | - |
| 15 | Poultry | | | | | | | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 16 | Rabbitry | | | | | | | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 17 | Piggery | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 18 | Sheep and goat | | | | | | | | | | | | | |
| 18.1 | | - | - | Sheep | - | - | Nutrient management for Sheep | Species specific mineral mixture for small ruminants in | 50 sheeps | - | 5 | 5 | 8 | 2 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | intensive system of rearing | | | | | | |
| 19 | Duckery | | | | | | | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | Common carps | | | | | | | | | | | | | |
| | | - | - | | | | | | | | | | | |
| 21 | Mussels | | | | | | | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 22 | Ornamental fishes | | | | | | | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 23 | Oyster mushroom | | | | | | | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 24 | Button mushroom | | | | | | | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 25 | Vermicompost | | | | | | | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 26 | Sericulture | | | | | | | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 27 | Apiculture | | | | | | | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 28 | Implements | | | | | | | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 29 | Others (specify) | | | | | | | | | | | | | |
| 30 | Fisheries | - | - | Fish | Male tilapia | - | Fish farming | Demonstration of all male Tilapia fish in Farm ponds | 5 demo | - | 1 | 4 | 2 | 3 |
| 31 | Protective clothing | - | - | - | - | - | Protective clothing | Functional Clothing for Agricultural activities | 40 demos | - | 5 | 35 | 40 | - |
| 32 | Storage technology | - | - | - | - | - | Grain storage | Super grain bags for storage of seeds | 10 demos | - | 3 | 7 | 10 | - |
| 33 | Green manure | Summer | - | Diancha and | - | - | Green manures | Green manure | 4 | 4 | 2 | 8 | 8 | 2 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | crops | | | Pillepesaru | | | | seed production (Diancha and Pillepesaru) in paddy fallows | | | | | | |

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

| Sl. No. | 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 | |
| | | | | | | | | | | | | | |
| | Oilseeds | | | | | | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - |
| | Pulses | | | | | | | | | | | | |
| | | Irrigated/ Rainfed | Rabi | Bengalgram | Local | - | Disease management | Management of dry root rot and wilt complex in Bengalgram | Rabi 2020-21 | H | M | M | Greengram |
| | Cereals | | | | | | | | | | | | |
| | | Irrigated | Kharif | Paddy | Kaveri Sona | - | Reduced cost of cultivation and less usage of water | Demonstration of Direct Seeded Rice | Kharif 2020-21 | M | L | M | Paddy |
| | | Irrigated | Kharif | Paddy | GNV-10-89 | - | High yielding and short duration variety | Demonstration of Paddy new variety GNV-10-89 | Kharif 2020-21 | M | M | M | Paddy |
| | | Irrigated | Kharif | Paddy | GGV-05-01 | - | Salt tolerant variety | Demonstration of salt tolerant variety GGV-05-01 in Paddy | Kharif 2020-21 | L | L | M | Paddy |
| | | Irrigated | Kharif | Paddy | RP BIO-226 | - | Resurgence of BPH in Paddy severity of Blast disease | Demonstration of IPDM in Paddy | Kharif 2020-21 | L | M | M | Paddy |
| | | Irrigated | Kharif | Paddy | RNR-15048 | - | High yielding variety | Demonstration of Paddy new variety RNR-15048 | Kharif 2020-21 | M | L | M | Paddy |
| | | Irrigated | Kharif | Paddy | BPT-5204 | - | Nutrient management | LCC for real time Nitrogen management in Paddy | Kharif 2020-21 | M | M | M | Paddy |
| | | Irrigated | Kharif | Paddy | BPT-5204 | - | Water management | Water saving Technique: Alternate wetting and drying (AWD) in Paddy | Kharif 2020-21 | M | L | M | Paddy |
| | | Irrigated | Kharif/ Rabi | Maize | Local variety | - | Invasive pest | Management of fall armyworm in Maize | Kharif/ Rabi 2020-21 | L | L | M | Sorghum |
| | Millets | | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Irrigated | Summer | Little millet | DHLM 36-3 | - | ICM | Demonstration of High Yielding Little millet Variety DHLM 36-3 | Irrigated 2020-21 | M | L | M | Maize |
| | | Rainfed | Kharif | Foxtail Millet | HN-46 | - | ICM | Demonstration of Foxtail millet new variety HN-46 | Rainfed 2020-21 | H | M | M | Bengalgram |
| | | Rainfed | Kharif | Browntop millet | HBK-1 | - | Crop production | Demonstration of High Yielding Brown top Millet Variety HBK-1 | Rainfed 2020-21 | M | M | M | Cowpea |
| | Vegetables | | | | | | | | | | | | |
| | | Irrigation | Kharif | Onion | Bhima Dark Red | - | High yielding variety | Demonstration of high yielding onion variety Bhima Dark Red | Kharif 2020-21 | M | M | M | Sugarcane |
| | | Irrigation | Kharif | Vegetables | Vegetables kit | - | Nutrition garden | Vegetable crop cafeteria with improved varieties | Kharif 2020-21 | M | L | M | Maize |
| | Flowers | | | | | | | | | | | | |
| | | Irrigation | Rabi/ Summer | Tuberose | Arka Prajwal | - | High yielding variety | Demonstration of Tuberose variety Arka Prajwal | Rabi/ Summer 2020-21 | M | L | M | Gylardia |
| | Ornamental | | | | | | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - |
| | Fruit | | | | | | | | | | | | |
| | | Irrigation | Rabi/ Summer | Guava | Taiwan pink | - | Disease management | Demonstration and management of wilt complex in Guava | Rabi/ Summer 2020-21 | M | M | M | Guava |
| | Spices and condiments | | | | | | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - |
| | Commercial | | | | | | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - |
| | Medicinal and aromatic | | | | | | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - |
| | Fodder | | | | | | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - |
| | Plantation | | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | - | - | - | - | - | - | - | - | - | - | - | - |
| | Fibre | | | | | | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - |
| | Others | | | | | | | | | | | | |
| | | Green manure crops | Summer | - | Diancha and Pillepesaru | - | - | Green manures | Green manure seed production (Diancha and Pillepesaru) in paddy fallows | | | | |

**5.B. Results of FLDs**

**5.B.1. Crops**

| Crop | Name of the technology demonstrated | Variety | Hybrid | Farming situation | 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 | | | | | | | | |
| Oilseeds | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Pulses | | | | | | | | | | | | | | | | | |
| | Management of dry root rot and wilt complex in Bengalgram | BGD-103 | | rainfed | 5 | 2 | | | 13.4 | 11.2 | 19.64 | 58072 | 36572 | 2.70 | 46811 | 22361 | 1.91 |
| Cereals | | | | | | | | | | | | | | | | | |
| | Demonstration of Direct Seeded Rice | Kaveri sona | | Irrigated | 10 | 4 | 80.5 | 52.5 | 75.6 | 72.1 | 4.84 | 134190 | 86878 | 2.85 | 127978 | 59590 | 1.87 |
| | Demonstration of Paddy new variety GNV-10-89 | GNV-10-89 | | Irrigated | 10 | 4 | 98 | 91 | 95.03 | 73.34 | 29.57 | 139688 | 84212 | 2.52 | 130180 | 59885 | 1.85 |
| | Demonstration of salt tolerant variety GGV-05-01 in Paddy | GGV-05-01 | | Irrigated | 10 | 4 | 89.25 | 84 | 86.97 | 72.45 | 20.04 | 145248 | 84223 | 2.38 | 128599 | 57624 | 1.81 |
| | Demonstration of IPDM in Paddy | Rp- bio 226 | | Irrigated | 10 | 4 | | | 57.33 | 62.56 | -8.36 | 83128 | 38617 | 1.87 | 90712 | 32176 | 1.55 |
| | Demonstration of Paddy new variety RNR-15048 | RNR-15048 | | Irrigated | 10 | 4 | 68.25 | 63 | 65.8 | 76.83 | -14.36 | 144760 | 89660 | 2.63 | 136364 | 66214 | 1.94 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LCC for real time Nitrogen management in Paddy | BPT-5204 | | Irrigated | 20 | 8 | 84 | 77 | 80.67 | 75.51 | 6.84 | 143198 | 85623 | 2.49 | 134035 | 63935 | 1.91 |
| | Water saving Technique: Alternate wetting and drying (AWD) in Paddy | BPT-5204 | | Irrigated | 20 | 8 | 87.5 | 80.5 | 84 | 75.16 | 11.76 | 149100 | 86575 | 2.38 | 133413 | 59313 | 1.8 |
| | Management of fall armyworm in Maize | Dekalb 9149 | | Irrigated | 10 | 4 | 51.25 | 45.50 | 48.17 | 43.95 | 9.60 | 65029 | 37002 | 2.32 | 59332 | 27992 | 1.89 |
| Millets | | | | | | | | | | | | | | | | | |
| | Demonstration of High Yielding Little millet Variety DHLM 36-3 | DHLM-36-3 | | Irrigated | 10 | 4 | On going | | | | | | | | | | |
| | Demonstration of Foxtail millet new variety HN-46 | HN-46 | | Rainfed | 10 | 4 | 22.50 | 15.0 | 21.75 | 14.75 | 32.18 | 57638 | 49013 | 3.3 | 39088 | 20278 | 2.07 |
| | Demonstration of High Yielding Brown top Millet Variety HBK-1 | HBK-1 | | Rainfed | 10 | 4 | 25.75 | 19.5 | 21.98 | 17.82 | 23.31 | 35160 | 20135 | 2.34 | 28520 | 13770 | 1.94 |
| Vegetables | | | | | | | | | | | | | | | | | |
| | Demonstration of high yielding onion variety Bhima Dark Red | Bhima Dark red | | Irrigated | 5 | 2 | Vitiated due to heavy rainfall | | | | | | | | | | |
| | Vegetable crop cafeteria with improved varieties | | | Irrigated | 5 | 2 | Ongoing | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Flowers | | | | | | | | | | | | | | | | | |
| | Demonstration of Tuberose variety Arka Prajwal | Arka Prajwal | | Irrigated | 1.2 | 5 | 450 | 380 | 410 | 336.66 | 21.78 | 345000 | 124867 | 1.57 | 270266 | 106933 | 1.65 |
| Ornamental | | | | | | | | | | | | | | | | | |
| | - | | | | | | | | | | | | | | | | |
| Fruit | | | | | | | | | | | | | | | | | |
| | Demonstration and management of wilt complex in Guava | Taiwan pink | | Irrigated | 2 | 5 | Ongoing | | | | | | | | | | |
| Spices and condiments | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Commercial | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Fibre crops like cotton | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Medicinal and aromatic | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Fodder | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Plantation | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Fibre | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Others (pl.specify) | Large scale field demonstration on green manure seed production in paddy fallows | Diancha, Pillipesuru | | Irrigated | 8 | 20 | 87.5 | 78.75 | 83.92 | 78.55 | 6.84 | 148967 | 93742 | 2.70 | 139959 | 65446 | 1.88 |

* 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.)**

| **Title of the Technology** | **Data on other parameters in relation to technology demonstrated** | | |
|---|---|---|---|
| | **Parameter with unit** | **Demo** | **Check** |
| Demonstration of Direct Seeded Rice | Cost saving (Rs. /ha) | 19000-21000 | - |
| | Straw yield (t/ha) | 8.69 | 8.29 |
| Demonstration of Paddy new variety GNV-10-89 | Days to 50% flowering | 87 | 110 |
| | Panicle length (cm) | 23.5 | 21 |
| | Days to maturity (Days) | 125 | 145 |
| Demonstration of salt tolerant variety GGV-05-01 in Paddy | Days to 50% flowering | 100 | 110 |
| | Days to maturity (Days) | 135 | 145 |
| IPDM in Paddy | PDI (BLB) | 0.16 | 32.17 |
| | BPH/ hill | 5.11 | 9.67 |
| | Spider/ hill | 3.12 | 1.68 |
| | Coccinellids/ hill | 4.62 | 2.13 |
| | Mirid bugs/ hill | 3.82 | 1.61 |
| Demonstration of Paddy new variety RNR-15048 | Plant height ( cm) | 106.3 | 98.5 |
| | No. of effective tillers/ hill | 625 | 650 |
| | No. of Hoppers/hill | 8.36 | 10 |
| | % Lodging | 30 | 10 |
| | Grain size | Super fine | Medium slender |
| | Consumer acceptance | 80 | 70 |
| LCC for real time Nitrogen management in Paddy | Plant height cm | 99 | 98.5 |
| | Length of panicle | 22.5 | 21.6 |
| | No. of Hoppers/hill | 7.31 | 9.12 |

| | | | |
|---|---|---|---|
| | %Nitogen saved | 25 | 0 |
| Water saving Technique: Alternate wetting and drying (AWD) in Paddy | No. of irrigation | 18 | 60 |
| | Plant height cm | 99.5 | 98.0 |
| | No. of effective tillers/hill | 660 | 620 |
| | | | |
| Management of fall armyworm in Maize | Larve/ plant | 0.46 | 1.26 |
| | % Plant damage | 9.26 | 20.16 |
| | % Cob damage | 0.62 | 1.35 |
| | moth catch/trap | 27.00 | 0.00 |
| Demonstration of Foxtail millet new variety HN-46 | Straw yield (q/ha) | 42.5 | 38.5 |
| Demonstration of browntop millet new variety HBK-1 | Straw yield (q/ha) | 14.2 | 13.4 |
| Management of dry root rot and wilt complex in Bengalgram | Wilt PDI | 14.35 | 21.40 |
| | Rust PDI | 8.15 | 16.30 |

**5. B2. Feedback on technologies demonstrated**

| Name of technology demonstrated | Useful characters as well as constraints of technology | Socio-economic as well as administrative constraints for its adoption |
|---|---|---|
| Management of dry root rot and wilt complex in Bengalgram | Easy to adopt and low cost technology and less dry root rot incidence | Non-availability of bio agents, lack of awareness about seed treatments |
| Demonstration of Direct Seeded Rice | DSR method had given higher yield with less cost of cultivation and labour and water saving compared to transplanting method | High weed infestation, depends upon rainfall and release of canal water, weed problem, Timely non availability of machineries for sowing |
| Demonstration of Paddy new variety GNV-10-89 | GNV 10-89 had given higher yield and came to harvest 20-25 days early | Low market price compared to BPT-5204 |
| Demonstration of salt tolerant variety GGV-05-01 in Paddy | GGV-05-01 performed better in saline soils with higher yield | Slightly low market price compared to BPT-5204. |
| Demonstration of IPDM in Paddy | Need based bio agent and less chemical use, reduction in cost of cultivation and increased natural enemy population and eco-friendly management | Lack of awareness about resistant variety, non-awareness of eco-friendly management, indiscriminate use of chemical pesticide |
| Demonstration of Paddy new variety RNR-15048 | Good quality rice with high market price compared to check variety | Low yield during kharif compared to BPT-5204. |
| LCC for real time Nitrogen management in Paddy | Less fertilizer requirement, less incidence of pest and diseases and reduced cost of cultivation with | Non availability of LCC cards, colour variation due to varietal character. |

| | | |
|---|---|---|
| | higher yield | |
| Water saving Technique: Alternate wetting and drying (AWD) in Paddy | Less water requirement, less incidence of pest and diseases and reduced cost of cultivation with higher yield | Weed problem at initial stage, not suitable for saline soils. |
| Management of fall armyworm in Maize | Pest management with reduced cost of cultivation due to usage of eco friendly technologies viz., traps, less usage of chemicals and green chemicals and It has given 5 to 8 % higher yield | Invasive pest, no management of practices lack of awareness among farmers about non chemical management |
| Demonstration of Foxtail millet new variety HN-46 | HN-46 had given higher yield & more income | - |
| Demonstration of High Yielding Brown top Millet Variety HBK-1 | HBK-1 variety had given higher yield & more income | Less market price for browntop millet. |
| Demonstration of Tuberose variety Arka Prajwal | Higher weight of the individual flower, more no. of flowers per spike | Farmers have to travel to IIHR, Bengaluru for purchasing of bulbs, which is 400 km from Koppal dist. |

### 5.B.3. Livestock and related enterprises

| Type of livestock | Name of the technology demonstrated | Breed | No. of Demo | No. of Units | Name of the parameter with unit | Yield (kg/animal) | | | | % Increase | *Economics of demonstration Rs./unit) | | | *Economics of check (Rs./unit) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Demo | | | Check if any | | Gross Return | Net Return | ** BCR | Gross Return | Net Return | ** BCR |
| | | | | | | H | L | A | | | | | | | | |
| Dairy | Demonstration of "Impregnated Nano fibers" for induction of Oestrus in repeat breeding Cows/ Buffaloes | Cows, Buffaloes | 20 | 20 | conception Rate % | 77 | 72 | 75 | 30 | 150 | - | - | | | | |
| | Integrated Dairy Management | HF Jersey | 02 | 10 | Mild yield (lit) | 10.25 | 9 | 10 | 8 | 25 | - | - | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Poultry | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Rabbitry | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Pigerry | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sheep and goat | Demonstration on Silage preparation for stall fed sheep and Goat | Kenguri sheep | 10 | 10 | Weight gain (Rs.) | 31.5 | 28 | 30.15 | 22.41 | 25.62 | 75.37 | 2038 | 1:31 | 6000 | 1000 | 1:20 |
| | | | | | | | | | | | | | | | | |
| Duckery | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 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

**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 |
|---|---|---|
| Demonstration of "Impregnated Nanofibers" for induction of Oestrus in repeat breeding Cows/ Buffaloes | Low cost technology, high conception rate up to 80%. | - |
| Integrated Dairy Management | Overall growth of animal is good | - |
| Demonstration on Silage preparation for stall fed sheep and Goat | Low cost technology, no expertise is required, farmers can easily adopt the technology | - |

## 5.B.5. Fisheries

| Type of Breed | Name of the technology demonstrated | Breed | No. of Demo | Units/ Area ($m^2$) | Name of the parameter with unit | Yield (q/ha) | | | | % Increase | *Economics of demonstration (Rs./unit) | | | *Economics of check (Rs./unit) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Demo | | | Check if any | | Gross Return | Net Return | ** BCR | Gross Return | Net Return | ** BCR |
| | | | | | | H | L | A | | | | | | | | |
| Common carps | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Mussels | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ornamental fishes | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| **Others (pl.specify)** | **Demonstration of all male Tilapia fish in Farm ponds** | **Male tilapia** | **5** | **Ongoing** | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

* 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 {$m^2$} | Name of the parameter with unit | Yield | | | | % Increase | *Economics of demonstration (Rs./unit) or (Rs./m2) | | | *Economics of check (Rs./unit) or (Rs./m2) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Demo | | | Check if any | | 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

**Other Enterprises**

**Kitchen Garden**

| Name of the Demonstration | Source | Season | Name of the DFI Village | No. Beneficiaries | Extension Activities | Critical inputs provided/ Family | Stage |
|---|---|---|---|---|---|---|---|
| Kitchen Garden | UAS Bengaluru | Rabi | Chikkadankanakal Vataparvi | 30 Families | Trainings Method demonstration | • Nutri garden seed kit- 2 Nos<br>• Planting materials- 6 No<br>• Bio-fertilisers-250g | Ongoing |

**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 | 7 | 480 | |
| 2 | Farmers Training | 8 | 260 | |
| 3 | Media coverage | 23 | -- | |
| 4 | Training for extension functionaries | - | - | |
| 5 | Others (Please specify) | - | - | |

# 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 | | | | | | | | |
| **Cereals** | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Bajra | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Maize | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Paddy | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Sorghum | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Wheat | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| **Total** | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| **Oilseeds** | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Castor | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Mustard | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Safflower | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Sesame | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Sunflower | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Groundnut | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Soybean | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| **Total** | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| **Pulses** | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Greengram | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Blackgram | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Bengalgram | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Redgram | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| **Total** | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| **Vegetable crops** | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Bottle gourd | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Capsicum | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| **Total** | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Cucumber | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Tomato | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Brinjal | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Okra | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Onion | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Potato | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Field bean | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| **Total** | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| **Commercial crops** | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Sugarcane | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Coconut | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total** | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Fodder crops | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Maize (Fodder) | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Sorghum (Fodder) | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |
| **Total** | - | - | - | - | - | - | - | - | - | - | - | | - | - | - |

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 |
|---|---|---|
| - | - | - |
| | | |

## PART VII. TRAINING(2020)

### 7.A.. Training of Farmers and Farm Women 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 |
| **Crop Production** | - | - | - | - | - | - | - | - | - | - |
| Weed Management | - | - | - | - | - | - | - | - | - | - |
| Resource Conservation Technologies | - | - | - | - | - | - | - | - | - | - |
| Cropping Systems | - | - | - | - | - | - | - | - | - | - |
| Crop Diversification | - | - | - | - | - | - | - | - | - | - |
| Integrated Farming | - | - | - | - | - | - | - | - | - | - |
| Micro Irrigation/Irrigation | - | - | - | - | - | - | - | - | - | - |
| Seed production | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Nursery management | | | | | | | | | | |
| Integrated Crop Management | 4 | 95 | 05 | 100 | 15 | 3 | 118 | 110 | 08 | 118 |
| Soil and Water Conservation | - | - | - | - | - | - | - | - | - | - |
| Integrated Nutrient Management | - | - | - | - | - | - | - | - | - | - |
| Production of organic inputs | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **Horticulture** | - | - | - | - | - | - | - | - | - | - |
| **a) Vegetable Crops** | - | - | - | - | - | - | - | - | - | - |
| Production of low value and high volume crop | - | - | - | - | - | - | - | - | - | - |
| Off-season vegetables | - | - | - | - | - | - | - | - | - | - |
| Nursery raising | - | - | - | - | - | - | - | - | - | - |
| Exotic vegetables | - | - | - | - | - | - | - | - | - | - |
| Export potential vegetables | - | - | - | - | - | - | - | - | - | - |
| Grading and standardization | - | - | - | - | - | - | - | - | - | - |
| Protective cultivation | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **b) Fruits** | - | - | - | - | - | - | - | - | - | - |
| Training and Pruning | - | - | - | - | - | - | - | - | - | - |
| Layout and Management of Orchards | - | - | - | - | - | - | - | - | - | - |
| Cultivation of Fruit | - | - | - | - | - | - | - | - | - | - |
| Management of young plants/orchards | - | - | - | - | - | - | - | - | - | - |
| Rejuvenation of old orchards | - | - | - | - | - | - | - | - | - | - |
| Export potential fruits | - | - | - | - | - | - | - | - | - | - |
| Micro irrigation systems of orchards | - | - | - | - | - | - | - | - | - | - |
| Plant propagation techniques | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **c) Ornamental Plants** | - | - | - | - | - | - | - | - | - | - |
| Nursery Management | - | - | - | - | - | - | - | - | - | - |
| Management of potted plants | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Export potential of ornamental plants | - | - | - | - | - | - | - | - | - | - |
| Propagation techniques of Ornamental Plants | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **d) Plantation crops** | - | - | - | - | - | - | - | - | - | - |
| Production and Management technology | - | - | - | - | - | - | - | - | - | - |
| Processing and value addition | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **e) Tuber crops** | - | - | - | - | - | - | - | - | - | - |
| Production and Management technology | - | - | - | - | - | - | - | - | - | - |
| Processing and value addition | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **f) Spices** | - | - | - | - | - | - | - | - | - | - |
| Production and Management technology | - | - | - | - | - | - | - | - | - | - |
| Processing and value addition | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **g) Medicinal and Aromatic Plants** | - | - | - | - | - | - | - | - | - | - |
| Nursery management | - | - | - | - | - | - | - | - | - | - |
| Production and management technology | - | - | - | - | - | - | - | - | - | - |
| Post harvest technology and value addition | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **Soil Health and Fertility Management** | - | - | - | - | - | - | - | - | - | - |
| Soil fertility management | - | - | - | - | - | - | - | - | - | - |
| Integrated water management | - | - | - | - | - | - | - | - | - | - |
| Integrated nutrient management | - | - | - | - | - | - | - | - | - | - |
| Production and use of organic inputs | - | - | - | - | - | - | - | - | - | - |
| Management of Problematic soils | - | - | - | - | - | - | - | - | - | - |
| Micro nutrient deficiency in crops | - | - | - | - | - | - | - | - | - | - |
| Nutrient use efficiency | - | - | - | - | - | - | - | - | - | - |
| Balanced use of fertilizers | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Soil and water testing | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **Livestock Production and Management** | | | | | | | | | | |
| Dairy Management | 2 | 32 | 7 | 39 | 12 | 4 | 16 | 44 | 11 | 55 |
| Poultry Management | 1 | 24 | 2 | 26 | 6 | - | 6 | 30 | 2 | 32 |
| Piggery Management | | | | | | | | | | |
| Rabbit Management | | | | | | | | | | |
| Animal Nutrition Management | 2 | 46 | 2 | 48 | 8 | 1 | 9 | 54 | 3 | 57 |
| Animal Disease Management | 1 | 33 | 1 | 34 | 6 | 0 | 6 | 39 | 1 | 40 |
| Feed and Fodder technology | 1 | 23 | 3 | 26 | 9 | 2 | 11 | 32 | 5 | 37 |
| Production of quality animal products | | | | | | | | | | |
| Others (pl.specify) (Sheep & Goat) | 1 | 17 | 2 | 19 | 7 | - | 7 | 24 | 2 | 26 |
| **Home Science/Women empowerment** | - | - | - | - | - | - | - | - | - | - |
| Household food security by kitchen gardening and nutrition gardening | - | - | - | - | - | - | - | - | - | - |
| Design and development of low/minimum cost diet | - | - | - | - | - | - | - | - | - | - |
| Designing and development for high nutrient efficiency diet | - | - | - | - | - | - | - | - | - | - |
| Minimization of nutrient loss in processing | - | - | - | - | - | - | - | - | - | - |
| Processing and cooking | - | - | - | - | - | - | - | - | - | - |
| Gender mainstreaming through SHGs | 1 | - | 47 | 47 | - | 6 | 53 | - | 53 | 53 |
| Storage loss minimization techniques | - | - | - | - | - | - | - | - | - | - |
| Value addition | - | - | - | - | - | - | - | - | - | - |
| Women empowerment | 2 | - | 92 | 92 | - | 21 | 113 | - | 113 | 113 |
| Location specific drudgery production | - | - | - | - | - | - | - | - | - | - |
| Rural Crafts | - | - | - | - | - | - | - | - | - | - |
| Women and child care | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **Agril. Engineering** | - | - | - | - | - | - | - | - | - | - |
| Farm machinery and its maintenance | - | - | - | - | - | - | - | - | - | - |
| Installation and maintenance of micro irrigation systems | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Use of Plastics in farming practices | - | - | - | - | - | - | - | - | - | - |
| Production of small tools and implements | - | - | - | - | - | - | - | - | - | - |
| Repair and maintenance of farm machinery and implements | - | - | - | - | - | - | - | - | - | - |
| Small scale processing and value addition | - | - | - | - | - | - | - | - | - | - |
| Post Harvest Technology | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **Plant Protection** | - | - | - | - | - | - | - | - | - | - |
| Integrated Pest Management | - | - | - | - | - | - | - | - | - | - |
| Integrated Disease Management | - | - | - | - | - | - | - | - | - | - |
| Bio-control of pests and diseases | - | - | - | - | - | - | - | - | - | - |
| Production of bio control agents and bio pesticides | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **Fisheries** | - | - | - | - | - | - | - | - | - | - |
| Integrated fish farming | - | - | - | - | - | - | - | - | - | - |
| Carp breeding and hatchery management | - | - | - | - | - | - | - | - | - | - |
| Carp fry and fingerling rearing | - | - | - | - | - | - | - | - | - | - |
| Composite fish culture | - | - | - | - | - | - | - | - | - | - |
| Hatchery management and culture of freshwater prawn | - | - | - | - | - | - | - | - | - | - |
| Breeding and culture of ornamental fishes | - | - | - | - | - | - | - | - | - | - |
| Portable plastic carp hatchery | - | - | - | - | - | - | - | - | - | - |
| Pen culture of fish and prawn | - | - | - | - | - | - | - | - | - | - |
| Shrimp farming | - | - | - | - | - | - | - | - | - | - |
| Edible oyster farming | - | - | - | - | - | - | - | - | - | - |
| Pearl culture | - | - | - | - | - | - | - | - | - | - |
| Fish processing and value addition | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **Production of Inputs at site** | - | - | - | - | - | - | - | - | - | - |
| Seed Production | - | - | - | - | - | - | - | - | - | - |
| Planting material production | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bio-agents production | - | - | - | - | - | - | - | - | - | - |
| Bio-pesticides production | - | - | - | - | - | - | - | - | - | - |
| Bio-fertilizer production | - | - | - | - | - | - | - | - | - | - |
| Vermi-compost production | - | - | - | - | - | - | - | - | - | - |
| Organic manures production | - | - | - | - | - | - | - | - | - | - |
| Production of fry and fingerlings | - | - | - | - | - | - | - | - | - | - |
| Production of Bee-colonies and wax sheets | - | - | - | - | - | - | - | - | - | - |
| Small tools and implements | - | - | - | - | - | - | - | - | - | - |
| Production of livestock feed and fodder | - | - | - | - | - | - | - | - | - | - |
| Production of Fish feed | - | - | - | - | - | - | - | - | - | - |
| Mushroom production | - | - | - | - | - | - | - | - | - | - |
| Apiculture | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **CapacityBuilding and Group Dynamics** | - | - | - | - | - | - | - | - | - | - |
| Leadership development | - | - | - | - | - | - | - | - | - | - |
| Group dynamics | - | - | - | - | - | - | - | - | - | - |
| Formation and Management of SHGs | - | - | - | - | - | - | - | - | - | - |
| Mobilization of social capital | - | - | - | - | - | - | - | - | - | - |
| Entrepreneurial development of farmers/youths | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **Agro-forestry** | - | - | - | - | - | - | - | - | - | - |
| Production technologies | - | - | - | - | - | - | - | - | - | - |
| Nursery management | - | - | - | - | - | - | - | - | - | - |
| Integrated Farming Systems | - | - | - | - | - | - | - | - | - | - |
| Others (Pl. specify) | - | - | - | - | - | - | - | - | - | - |
| **TOTAL** | **15** | **270** | **161** | **431** | **63** | **37** | **339** | **333** | **198** | **531** |

**7.B Training of Farmers and Farm Women 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 |
| **Crop Production** | | | | | | | | | | |
| Weed Management | | | | | | | | | | |
| Resource Conservation Technologies | | | | | | | | | | |
| Cropping Systems | | | | | | | | | | |
| Crop Diversification | | | | | | | | | | |
| Integrated Farming | 2 | 48 | 5 | 53 | 8 | 3 | 11 | 56 | 8 | 64 |
| Micro Irrigation/Irrigation | | | | | | | | | | |
| Seed production | 2 | 33 | 2 | 35 | 18 | 7 | 25 | 51 | 9 | 60 |
| Nursery management | 1 | 28 | 1 | 29 | 7 | - | 7 | 35 | 1 | 36 |
| Integrated Crop Management | 1 | 24 | 2 | 26 | 5 | 1 | 6 | 29 | 3 | 32 |
| Soil and Water Conservation | | | | | | | | | | |
| Integrated Nutrient Management | | | | | | | | | | |
| Production of organic inputs | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Soil health camps | | | | | | | | | | |
| **Horticulture** | | | | | | | | | | |
| **a) Vegetable Crops** | | | | | | | | | | |
| Production of low value and high volume crop | | | | | | | | | | |
| Off-season vegetables | | | | | | | | | | |
| Nursery raising | | | | | | | | | | |
| Exotic vegetables | | | | | | | | | | |
| Export potential vegetables | | | | | | | | | | |
| Grading and standardization | | | | | | | | | | |
| Protective cultivation | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Nutrient management | 1 | 22 | 2 | 24 | 4 | 2 | 6 | 26 | 4 | 30 |
| **b) Fruits** | | | | | | | | | | |
| Training and Pruning | | | | | | | | | | |
| Layout and Management of Orchards | | | | | | | | | | |
| Cultivation of Fruit | | | | | | | | | | |
| Management of young plants/orchards | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | |
| Export potential fruits | | | | | | | | | | |
| Micro irrigation systems of orchards | | | | | | | | | | |
| Plant propagation techniques | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Organic Horticulture | 1 | 54 | 3 | 57 | 15 | 2 | 17 | 69 | 5 | 74 |
| **c) Ornamental Plants** | | | | | | | | | | |
| Nursery Management | | | | | | | | | | |
| Management of potted plants | | | | | | | | | | |
| Export potential of ornamental plants | | | | | | | | | | |
| Propagation techniques of Ornamental Plants | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **d) Plantation crops** | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **e) Tuber crops** | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **f) Spices** | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Others (pl.specify) | | | | | | | | | | |
| **g) Medicinal and Aromatic Plants** | | | | | | | | | | |
| Nursery management | | | | | | | | | | |
| Production and management technology | | | | | | | | | | |
| Post harvest technology and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **Soil Health and Fertility Management** | | | | | | | | | | |
| Soil fertility management | | | | | | | | | | |
| Integrated water management | | | | | | | | | | |
| Integrated nutrient management | | | | | | | | | | |
| Production and use of organic inputs | | | | | | | | | | |
| Management of Problematic soils | | | | | | | | | | |
| Micro nutrient deficiency in crops | | | | | | | | | | |
| Nutrient use efficiency | | | | | | | | | | |
| Balanced use of fertilizers | | | | | | | | | | |
| Soil and water testing | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **Livestock Production and Management** | | | | | | | | | | |
| Dairy Management | 3 | 54 | 5 | 59 | 17 | 2 | 19 | 71 | 7 | 78 |
| Poultry Management | 2 | 32 | 11 | 43 | 12 | 8 | 20 | 44 | 19 | 63 |
| Piggery Management | - | | | | | | | | | |
| Rabbit Management | - | | | | | | | | | |
| Animal Nutrition Management | 2 | 37 | 5 | 42 | 9 | 3 | 12 | 46 | 8 | 54 |
| Animal Disease Management | 1 | 28 | 2 | 30 | 5 | 1 | 6 | 33 | 3 | 36 |
| Feed and Fodder technology | 3 | 58 | 7 | 65 | 22 | 5 | 27 | 80 | 12 | 92 |
| Production of quality animal products | | | | | | | | | | |
| Others (pl.specify) (Sheep and Goat) | 2 | 41 | 8 | 49 | 13 | 4 | 17 | 54 | 12 | 66 |
| **Home Science/Women empowerment** | | | | | | | | | | |
| Household food security by kitchen gardening and nutrition gardening | | | | | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Design and development of low/minimum cost diet | | | | | | | | | | |
| Designing and development for high nutrient efficiency diet | | | | | | | | | | |
| Minimization of nutrient loss in processing | | | | | | | | | | |
| Processing and cooking | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | |
| Storage loss minimization techniques | | | | | | | | | | |
| Value addition | 1 | | 18 | 18 | | 6 | 6 | - | 24 | 24 |
| Women empowerment | | | | | | | | | | |
| Location specific drudgery production | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | |
| Women and child care | 1 | - | 23 | 23 | - | 8 | 8 | - | 31 | 31 |
| Others (pl.specify) | | | | | | | | | | |
| **Agril. Engineering** | | | | | | | | | | |
| Farm machinery and its maintenance | | | | | | | | | | |
| Installation and maintenance of micro irrigation systems | | | | | | | | | | |
| Use of Plastics in farming practices | | | | | | | | | | |
| Production of small tools and implements | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | |
| Small scale processing and value addition | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **Plant Protection** | | | | | | | | | | |
| Integrated Pest Management | 6 | 148 | 5 | 153 | 37 | 2 | 39 | 185 | 7 | 192 |
| Integrated Disease Management | | | | | | | | | | |
| Bio-control of pests and diseases | | | | | | | | | | |
| Production of bio control agents and bio pesticides | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **Fisheries** | | | | | | | | | | |
| Integrated fish farming | | | | | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Carp breeding and hatchery management | | | | | | | | | | |
| Carp fry and fingerling rearing | | | | | | | | | | |
| Composite fish culture | | | | | | | | | | |
| Hatchery management and culture of freshwater prawn | | | | | | | | | | |
| Breeding and culture of ornamental fishes | | | | | | | | | | |
| Portable plastic carp hatchery | | | | | | | | | | |
| Pen culture of fish and prawn | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | |
| Edible oyster farming | | | | | | | | | | |
| Pearl culture | | | | | | | | | | |
| Fish processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **Production of Inputs at site** | | | | | | | | | | |
| Seed Production | | | | | | | | | | |
| Planting material production | | | | | | | | | | |
| Bio-agents production | | | | | | | | | | |
| Bio-pesticides production | | | | | | | | | | |
| Bio-fertilizer production | | | | | | | | | | |
| Vermi-compost production | **1** | **27** | **7** | **34** | **8** | **3** | **11** | **35** | **10** | **45** |
| 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 | **1** | **14** | **17** | **31** | **5** | **8** | **13** | **19** | **25** | **44** |
| Apiculture | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **CapacityBuilding and Group Dynamics** | | | | | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Leadership development | | | | | | | | | | |
| Group dynamics | | | | | | | | | | |
| Formation and Management of SHGs | | | | | | | | | | |
| Mobilization of social capital | | | | | | | | | | |
| Entrepreneurial development of farmers/youths | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **Agro-forestry** | | | | | | | | | | |
| Production technologies | | | | | | | | | | |
| Nursery management | | | | | | | | | | |
| Integrated Farming Systems | | | | | | | | | | |
| Others (Pl. specify) | | | | | | | | | | |
| **TOTAL** | **31** | **648** | **123** | **771** | **185** | **65** | **250** | **833** | **188** | **1021** |

**7.C.Training for Rural Youths including sponsored training programmes (on campus)**

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Ornamental fisheries | - | - | - | - | - | - | - | - | - | |
| Composite fish culture | | | | | | | | | | |
| Freshwater prawn culture | - | - | - | - | - | - | - | - | - | |
| Shrimp farming | | | | | | | | | | |
| Pearl culture | - | - | - | - | - | - | - | - | - | |
| Cold water fisheries | | | | | | | | | | |
| Fish harvest and processing technology | - | - | - | - | - | - | - | - | - | |
| Fry and fingerling rearing | | | | | | | | | | |
| Any other (pl.specify) | - | - | - | - | - | - | - | - | - | |
| **TOTAL** | | | | | | | | | | |

**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 | - | - | - | - | - | - | - | - | - | - |
| Mushroom Production | - | - | - | - | - | - | - | - | - | - |
| Bee-keeping | - | - | - | - | - | - | - | - | - | - |
| Sericulture | - | - | - | - | - | - | - | - | - | - |
| Repair and maintenance of farm machinery and implements | - | - | - | - | - | - | - | - | - | - |
| Value addition | - | - | - | - | - | - | - | - | - | - |
| Small scale processing | - | - | - | - | - | - | - | - | - | - |
| Post Harvest Technology | - | - | - | - | - | - | - | - | - | - |
| Tailoring and Stitching | - | - | - | - | - | - | - | - | - | - |
| Rural Crafts | - | - | - | - | - | - | - | - | - | - |
| Production of quality animal products | - | - | - | - | - | - | - | - | - | - |
| Dairying | - | - | - | - | - | - | - | - | - | - |
| Sheep and goat rearing | - | - | - | - | - | - | - | - | - | - |
| Quail farming | - | - | - | - | - | - | - | - | - | - |
| Piggery | - | - | - | - | - | - | - | - | - | - |
| Rabbit farming | - | - | - | - | - | - | - | - | - | - |
| Poultry production | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Ornamental fisheries | - | - | - | - | - | - | - | - | - | - |
| Composite fish culture | - | - | - | - | - | - | - | - | - | - |
| Freshwater prawn culture | - | - | - | - | - | - | - | - | - | - |
| Shrimp farming | - | - | - | - | - | - | - | - | - | - |
| Pearl culture | - | - | - | - | - | - | - | - | - | - |
| Cold water fisheries | - | - | - | - | - | - | - | - | - | - |
| Fish harvest and processing technology | - | - | - | - | - | - | - | - | - | - |
| Fry and fingerling rearing | - | - | - | - | - | - | - | - | - | - |
| Any other (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **TOTAL** | - | - | - | - | - | - | - | - | - | - |

## 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 | | - | - | - | - | - | - | - | - | - |
| Any other (pl.specify) | | - | - | - | - | - | - | - | - | - |
| Disease management in animals | 1 | 62 | 12 | 74 | 23 | 8 | 31 | 85 | 20 | 105 |
| Bird flu | 1 | 80 | 10 | 90 | 21 | 7 | 28 | 101 | 17 | 118 |
| Artificial insemination | 1 | 63 | 11 | 74 | 22 | 7 | 29 | 75 | 18 | 103 |
| **Total** | **3** | **205** | **33** | **238** | **66** | **22** | **88** | **261** | **55** | **326** |

## 7.F. Training programmes for Extension Personnel 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 |
| Productivity enhancement in field crops | | - | - | - | - | - | - | - | - | - |
| Integrated Pest Management | | - | - | - | - | - | - | - | - | - |
| Integrated Nutrient management | | - | - | - | - | - | - | - | - | - |
| Rejuvenation of old orchards | | - | - | - | - | - | - | - | - | - |
| Protected cultivation technology | | - | - | - | - | - | - | - | - | - |
| Production and use of organic inputs | | - | - | - | - | - | - | - | - | - |
| Care and maintenance of farm machinery and implements | | - | - | - | - | - | - | - | - | - |
| Gender mainstreaming through SHGs | | - | - | - | - | - | - | - | - | - |
| Formation and Management of SHGs | | - | - | - | - | - | - | - | - | - |
| Women and Child care | | - | - | - | - | - | - | - | - | - |
| Low cost and nutrient efficient diet designing | | - | - | - | - | - | - | - | - | - |
| Group Dynamics and farmers organization | | - | - | - | - | - | - | - | - | - |
| Information networking among farmers | | - | - | - | - | - | - | - | - | - |
| Capacity building for ICT application | | - | - | - | - | - | - | - | - | - |
| Management in farm animals | | - | - | - | - | - | - | - | - | - |
| Livestock feed and fodder production | | - | - | - | - | - | - | - | - | - |
| Household food security | | - | - | - | - | - | - | - | - | - |
| Any other (pl.specify) | | - | - | - | - | - | - | - | - | - |
| **Total** | | - | - | - | - | - | - | - | - | - |

## 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 |
| **1** | **Crop production and management** | | - | - | - | - | - | - | - | - | - |
| 1.a. | Increasing production and productivity of crops | | - | - | - | - | - | - | - | - | - |
| 1.b. | Commercial production of vegetables | | - | - | - | - | - | - | - | - | - |
| **2** | **Production and value addition** | | - | - | - | - | - | - | - | - | - |
| 2.a. | Fruit Plants | | - | - | - | - | - | - | - | - | - |
| 2.b. | Ornamental plants | | - | - | - | - | - | - | - | - | - |
| 2.c. | Spices crops | | - | - | - | - | - | - | - | - | - |
| **3.** | **Soil health and fertility management** | | - | - | - | - | - | - | - | - | - |
| **4** | **Production of Inputs at site** | | - | - | - | - | - | - | - | - | - |
| **5** | **Methods of protective cultivation** | | - | - | - | - | - | - | - | - | - |
| **6** | **Others (pl.specify)** | | - | - | - | - | - | - | - | - | - |
| **7** | **Post harvest technology and value addition** | | - | - | - | - | - | - | - | - | - |
| 7.a. | Processing and value addition | | - | - | - | - | - | - | - | - | - |
| 7.b. | Others (pl.specify) | | - | - | - | - | - | - | - | - | - |
| **8** | **Farm machinery** | | - | - | - | - | - | - | - | - | - |
| 8.a. | Farm machinery, tools and implements | | - | - | - | - | - | - | - | - | - |
| 8.b. | Others (pl.specify) | | - | - | - | - | - | - | - | - | - |
| **9.** | **Livestock and fisheries** | | - | - | - | - | - | - | - | - | - |
| **10** | **Livestock production and management** | | - | - | - | - | - | - | - | - | - |
| 10.a. | Animal Nutrition Management | | - | - | - | - | - | - | - | - | - |
| 10.b. | Animal Disease Management | | - | - | - | - | - | - | - | - | - |
| 10.c | Fisheries Nutrition | | - | - | - | - | - | - | - | - | - |
| 10.d | Fisheries Management | | - | - | - | - | - | - | - | - | - |
| 10.e. | Others (pl.specify) | | - | - | - | - | - | - | - | - | - |
| **11.** | **Home Science** | | - | - | - | - | - | - | - | - | - |
| 11.a. | Household nutritional security | | - | - | - | - | - | - | - | - | - |
| 11.b. | Economic empowerment of women | | - | - | - | - | - | - | - | - | - |
| 11.c. | Drudgery reduction of women | | - | - | - | - | - | - | - | - | - |
| 11.d. | Others (pl.specify) | | - | - | - | - | - | - | - | - | - |
| **12** | **Agricultural Extension** | | - | - | - | - | - | - | - | - | - |
| 12.a. | CapacityBuilding and Group Dynamics | | - | - | - | - | - | - | - | - | - |
| 12.b. | Others (pl.specify) | | - | - | - | - | - | - | - | - | - |
| | **Total** | | - | - | - | - | - | - | - | - | - |

## 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 |
| **1** | **Crop production and management** | | - | - | - | - | - | - | - | - | - |
| 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) | | - | - | - | - | - | - | - | - | - |
| **2** | **Post harvest technology and value addition** | | - | - | - | - | - | - | - | - | - |
| 2.a. | Value addition | | - | - | - | - | - | - | - | - | - |
| 2.b. | Others (pl.specify) | | - | - | - | - | - | - | - | - | - |
| **3.** | **Livestock and fisheries** | | - | - | - | - | - | - | - | - | - |
| 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) | | - | - | - | - | - | - | - | - | - |
| **4.** | **Income generation activities** | | - | - | - | - | - | - | - | - | - |
| 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, dying etc. | | - | - | - | - | - | - | - | - | - |
| 4.j. | Agril. para-workers, para-vet training | | - | - | - | - | - | - | - | - | - |
| 4.k. | Others (pl.specify) | | - | - | - | - | - | - | - | - | - |
| **5** | **Agricultural Extension** | | - | - | - | - | - | - | - | - | - |
| 5.a. | Capacity building and group dynamics | | - | - | - | - | - | - | - | - | - |
| 5.b. | Others (pl.specify) | | - | - | - | - | - | - | - | - | - |
| | **Grand Total** | | - | - | - | - | - | - | - | - | - |

**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 | Vermicompost producer | 31.01.2020 | 29.02.2020 | 20 | 13 | 06 | 19 | 1 | 0 | 20 | 14 | 6 | 20 | 17.09.2020 | 16 |
| 2. | Small Poultry farmer | 31.01.2020 | 29.02.2020 | 20 | 13 | -- | 13 | 7 | - | 20 | 20 | - | 20 | 16.09.2020 | 17 |

## 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 | 10 | 331 | 27 | 358 | 44 | 22 | 66 | 5 | 4 | 9 |
| Kisan Mela | 4 | | | | | | | 4 | 5 | 9 |
| Kisan Ghosthi | 2 | 32 | 4 | 36 | 13 | 3 | 16 | 8 | 5 | 13 |
| Exhibition | 3 | | | | | | | 5 | 5 | 10 |
| Film Show | 1 | 24 | 3 | 27 | 5 | 2 | 7 | 6 | 4 | 10 |
| Method Demonstrations | 12 | 208 | 15 | 223 | 16 | 8 | 24 | 5 | 4 | 9 |
| Farmers Seminar | - | -- | - | - | - | - | - | - | - | - |
| Workshop | 1 | 18 | 2 | 20 | 4 | - | 4 | 3 | 2 | 5 |
| Group meetings | 8 | 145 | 7 | 152 | 22 | 4 | 26 | 4 | 3 | 7 |
| Lectures delivered as resource persons | 154 | 2852 | 145 | 2997 | 315 | 88 | 403 | 6 | 4 | 10 |
| Newspaper coverage | 45 | - | - | - | - | - | - | 6 | 4 | 10 |
| Radio talks | 16 | | | | | | | 6 | 4 | 10 |
| TV talks | 15 | | | | | | | 6 | 4 | 10 |
| Popular articles | 21 | - | - | - | - | - | - | 6 | 4 | 10 |
| Extension Literature | - | - | | - | - | - | - | - | - | - |
| Advisory Services | 2700 | | | | | | | 6 | 4 | 10 |
| Scientific visit to farmers field | 124 | - | - | - | - | - | - | 6 | 4 | 10 |
| Farmers visit to KVK | 408 | | | | | | | 6 | 4 | 10 |
| Diagnostic visits | 15 | - | - | - | - | - | - | 4 | 3 | 7 |
| Exposure visits | 1 | - | - | - | - | - | - | 3 | 3 | 6 |
| Ex-trainees Sammelan | - | - | - | - | - | - | - | - | - | - |
| Soil health Camp | 44 | 1120 | 63 | 1183 | 157 | 22 | 179 | 8 | 4 | 12 |
| Animal Health Camp | 5 | 96 | - | 96 | 32 | - | 32 | 6 | 2 | 8 |
| Agri mobile clinic | | | | | | | | | | |
| Soil test campaigns | | | | | | | | | | |
| Farm Science Club Conveners meet | | | | | | | | | | |
| Self Help Group Conveners meetings | 2 | - | 28 | 28 | - | 4 | 4 | 3 | 2 | 5 |
| Mahila Mandals Conveners meetings | - | - | - | - | - | - | - | - | - | - |
| Celebration of important days (specify) | 6 | 415 | 62 | 477 | 86 | 13 | 99 | 15 | 8 | 23 |
| Any Other (Specify) | | | | | | | | | | |
| **Total** | **3603** | **5241** | **356** | **5597** | **694** | **166** | **860** | **127** | **86** | **213** |

**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 | **25.02.2020** | **630** | **110** | **740** | **125** | **80** | **205** | **12** | **8** | **20** |
| Fertilizer Use Awareness Campaign | - | - | - | - | - | - | - | - | - | - |
| National Animal Disease Control Programme | - | - | - | - | - | - | - | - | - | - |
| Tree Plantation Campaign | - | - | - | - | - | - | - | - | - | - |
| Any other, Pl. specify | | | | | | | | | | |
| Honourable PM Live Webcost on global potato enclave | **28.01.2020** | **16** | **4** | **20** | **7** | **2** | **9** | **6** | **5** | **11** |
| World Pulse Day | **10.02.2020** | **27** | - | **27** | **5** | - | **32** | **9** | **6** | **15** |
| Womens Day | **08.03.2020** | - | **28** | **28** | - | **13** | **13** | **7** | **6** | **12** |
| World Environment Day | **5.06.2020** | **18** | - | **18** | **5** | - | **5** | **6** | **5** | **11** |
| Farm women's Day | **15.10.2020** | - | **47** | **47** | - | **6** | **6** | **9** | **10** | **19** |
| World Soil Day | **05.12.2020** | **73** | **15** | **88** | **16** | **4** | **20** | **7** | **5** | **12** |
| Farmers Day | **23.12.2020** | **67** | **16** | **83** | **19** | **3** | **22** | **8** | **6** | **14** |

## 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) | Paddy | GGV-05-01 | 702.02 ( bulk) | 10.00 lakhs | 1 |
| | Paddy | GGV-05-01 | 350 to be processesed | 10.00 lakhs | - |
| Oilseeds | | | | | |
| Pulses | | | | | |
| Commercial crops | | | | | |
| Vegetables | | | | | |
| Flower crops | | | | | |
| Spices | | | | | |
| Fodder crop seeds | | | | | |
| Fiber crops | | | | | |
| Forest Species | | | | | |
| Others (specify) | | | | | |
| **Total** | | | | | |

**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 |
|---|---|---|---|---|---|
| - | - | - | - | - | - |
| - | - | - | - | - | - |
| **Total** | | | | | |

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

| Crop category | Name of the crop | Variety | Number | Value (Rs.) | Number of farmers to whom provided |
|---|---|---|---|---|---|
| Commercial | | | | | |
| Vegetable seedlings | | | | | |
| Fruits | Sapota | Kalipatti | 36 | 1440 | 10 |
| | Mango | Benshan | 10 | 500 | 02 |
| Ornamental plants | | | | | |
| | Nandi battalu | Local | 10 | 250 | 04 |

| | | | | | |
|---|---|---|---|---|---|
| | Jasmine | Local | 36 | 900 | 9 |
| | Ornamental cherry | Local | 110 | 1100 | 13 |
| | Ashoka | Local | 58 | 580 | 9 |
| | Ornamental plant | Local | 1 | 25 | 1 |
| | Ornamental Badam | Local | 59 | 590 | 9 |
| | Hibiscus | Local | 62 | 1550 | 16 |
| | Tree jasmine | Local | - | - | - |
| | Rose | Local | 58 | 1450 | 14 |
| | Marigold | Local | 2 | 40 | 1 |
| | Duranta | Local | 20 | 200 | 1 |
| | | - | | | |
| Medicinal and Aromatic | Tulisi | Local | 77 | 770 | 04 |
| Plantation | | | | | |
| Spices | Curry leaves | Suvasini | 1 | 10 | 01 |
| Tuber | Tuberose | Prajwal | 21 | 525 | 06 |
| Fodder crop saplings | | - | | | |
| Forest Species | Neem | Local | 3 | 30 | 1 |
| | Silver Oak | Local | 210 | 1920 | 1 |
| Others(specify) | | | | | |
| **Total** | | | **774** | **11880** | **102** |

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

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

**9.C. Production of Bio-Products**

| Bio Products | Name of the bio-product | Quantity (q) | Value (Rs.) | Number of farmers to whom provided |
|---|---|---|---|---|
| Bio Fertilizers | | | | |
| Bio-pesticide | | | | |
| Bio-fungicide | | | | |
| Bio Agents | | | | |
| Others (specify) Vegetable Special | Micronutrient Mixture | 7.04 | 105600 | 45 |
| Organic manure | Vermicompost | 39.14 | 26684 | 20 |
| | Earthworms | 0.02 | 975 | 06 |
| **Total** | | **46.2** | **133259** | **71** |

**9.D. Production of livestock**

| Particulars of Livestock | Name of the breed | Number | Value (Rs.) | Number of farmers to whom provided |
|---|---|---|---|---|
| **Dairy animals** | | | | |
| Cows | | | | |
| Buffaloes | | | | |
| Calves | | | | |
| Others (Pl. specify) | | | | |
| Milk | Milk Yield | 2170.3 liter | 72949 | 16 |
| **Poultry** | | | | |
| Broilers | | | | |
| Layers | | | | |
| Duals (broiler and layer) | | | | |
| Japanese Quail | | | | |
| Turkey | | | | |
| Emu | | | | |
| Ducks | | | | |
| Others (Pl. specify) | | | | |
| **Piggery** | | | | |
| Piglet | | | | |
| Others (Pl.specify) | | | | |
| **Fisheries** | | | | |

| | | | | |
|---|---|---|---|---|
| Fingerlings | | | | |
| Others (Pl. specify) | | | | |
| **Total** | | **2170.3 liter** | **72949** | **16** |

## 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 | 15 |
| Research papers- National | 28 |
| Technical reports | - |
| Technical bulletins | - |
| Popular articles - English | 9 |
| Popular articles – Local language | 8 |
| Extension literature | - |
| Others (Pl. specify) | - |
| Abstract | 8 |
| **TOTAL** | **68** |

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

| S. No. | Type of media | Title | Details |
|---|---|---|---|
| 1 | CD / DVD | - | - |
| 2 | Mobile Apps | - | - |
| 3 | Social media groups with KVK as Admin | ICAR-KVK Gangavathi (Koppal) | 1. KVK Gangavathi (Koppal) (18) |
| | | | 2. KVK Gangavathi Farmers (152) |
| | | | 3.DATC Association (16) |
| | | | 4.Pomegranate grower (41) |
| | | | 5.BANA SOLUTIONS (75) |
| | | | 6.C©£ÀªÀ²æÃvÉÆÃ,gÉÊ.PÀA.° (80) |
| | | | 7.Hopcoms koppal district (154) |
| | | | 8.POMO SOLUTIONS (44) |
| | | | 9.Livestock farmers koppal (120) |
| | | | 10.Poultry farming KVK Gvt (48) |
| | | | 11.ಕೋಳಿ ಸಾಕಾಣಿಕೆ ತರಬೇತಿ (57) |
| | | | 12.ಶ್ರೀದೇವಿ ಮಶ್ರೂಮ್ ಪ್ಲಾಂಟ್ (48) |

| | | | |
|---|---|---|---|
| | | | 13.ಜನನಿ ಸಂಜೀವಿನಿ(51) |
| | | | 14.Rice Farmers solutions (31) |
| | | | 15.Climate change-GVT (107) |
| | | | 16.Climate change-KPL (78) |
| | | | 17.Climate change-Kushtagi (72) |
| | | | 18.Climate change-Yelburga (62) |
| | | | 19.ಪ್ರಗತಿಪರ ರೈತರು GROW GREEN (145) |
| | Facebook account name | Raithanamitra Yerehulu | Vermicompost Farmers |
| | Instagram account name | Koli Sakanike | Poultry Farmers |
| | | Scientific dairy farming | Dairy Farmers |
| | YouTube channel | ICAR-KVK Gangavathi (Koppal) | https://www.youtube.com/channel/UCJ0s0ZN25Kz3VuKOsSec9UA |

**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).**

This will be considered only with suitable photos for further reporting/reference.

The Broad outline for the case study may be

**Title: Income generation by value addition of millets**

**Background:** Traditionally millets were being grown in rainfed conditions especially by the marginal farmers and tribals. Sri Siddanagowda progressive farmer of Yaradona village of Gangavathi taluk is basically a paddy grower. Yaradina village is the tail end village of Tungabhadra canal water. Tail end farmers of tungabhadra command areas usually face water problems for second paddy crops. The farmer opted for climate smart crop millets which are nutritionally rich and suitable for any tough climatic conditions.

**Interventions:** Realizing his interest ICAR krishi vigyan kendra , Gangavathi introduced foxtail millet varieties SIA-2644 and HN-46 , Little millet variety DHLM- 36-3 and Kodo millet variety RK- 39025 ,which promised him to adopt and continue these crops with very good yield and suggested him to process and selling of processed millets.

**Process :** State government of Karnataka also helped him to establish millet processing unit under programme INSIMP especially for Foxtail , little, Kodo and Brown top millets

**Technology :** Processing and value addition of millets. Apart from processing and milling millets in to rice, rava and flour , with technical guidance and trainings of ICAR Krishi Vigyan Kendra , Gangavathi he also prepared value added millet products such as dosa mix ,idli mix and malt.

**Impact :** Processing and value addition increased his income by double. To encourage millets among command area farmers he formed millet growers groups in which farmers not only cultivating millets and also do the processing and value addition. Now millets cultivators not only increased their income by 20 per cent more than the paddy growers but also their families relishing nutrient rich millets. Recently Sidanagouda and his group purchased vehicle and started door to door delivery of millets which not only increased millet business but, also consumers felt happy by receiving millets and millet products at their door steps.

**Horizontal Spread :** Other farmers ofKoppal district are coming forward for processing of millets. Siddanagouda is buying millets from other farmers for processing purpose.

**Economic gains :** By processing and value addition of millets he is getting 30-40 % higher income.

**Employment Generation :Farmer and his family members along with 2 to 3 labourers are engaged in processing, value addition , packing, transportation and selling of the products**

**Photos**

| | |
|---|---|
|  |  |
| **Foxtail millet crops** | **Technical guidance from ICAR KVK, Gangavathi** |

| | |
|---|---|
|  | |
| **Barnyard millet crop** | |

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

**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 |
|---|---|---|---|---|
| 1 | Horticulture | Waste decomposer through drip irrigation | Better productivity | Enhancement of soil micro flora and fertility |

## 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 : 168

Other Details

| Types of Activities | No. of Activities | Number of Farmers | Related crop/livestock technology |
|---|---|---|---|
| Gosthies | 5 | 150 | Livestock- birdflu, lumpyskin disease, AI, FMD & brucellosis & rabies & Zoonotic diseases |
| Lectures organized | 10 | 163 | Integrated crop management<br>Nutritional benefit of Fruits and Vegetable<br>Cultivation practices of horticulture crops<br>Integrated pest management in important crops<br>Integrated disease management in important crops<br>Integrated nutrient management in important crops<br>Harvest and post harvest technology in important vegetable crops<br>Vermicompost production technology |
| Exhibition | | | |
| Film show | | | |
| Fair | | | |
| Farm Visit | | | |
| Diagnostic Practicals | | | |
| Supply of Literature (No.) | | | |
| Supply of Seed (q) | 200 | 500 | Paddy Foundation seeds |
| 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 | 4 | 135 | Vermicompost unit<br>Dairy Unit<br>Paddy seed production unit<br>Horticulture nursery |

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

**Mr. Raghavendra Yaligar, Scientist (Agril. Entomology), KVK, Gangavathi** received Best KVK Scientist award in the field of Entomology during the 2nd National Conference held virtually on Advances in sustainable agriculture on 26-28th September, 2020.

**Dr. Jyothi R, Scientist (Horticulture), KVK, Gangavathi** received**Best woman scientist award** by society of Krishi Vigyan 2nd National Virtual Conference on advances in sustainable agriculture from 26.09.2020 to 28.09.2020.

**G. Narappa, Technical Officer (Farm Management) KVK, Gangavathi** received "**Best Extension Scientist award (2020)** for his outstanding contribution and recognition in the field of Agronomy on the occasion of **International Web Conference** perspective on agricultural and applied sciences in COVID-19 scenario (PAAS-2020) held during 4-6thOctober 2020.

**G. Narappa, Technical Officer (Farm Management) KVK, Gangavathi** received Best KVK Scientist award for outstanding contribution in the field of Agronomy on the occasion of National Conference on "**Recent trends & New Frontiers in Bio-Technology, Agricultural, Science and Environment, NCRTNFBASE-2020** held during 22nd – 23rd February, 2020.

\

## PART XI – SOIL AND WATER TEST

### 11.1 Soil and Water Testing Laboratory

**A. Status of establishment of Lab :**

1. Year of establishment : Feb-2013
2. List of equipments purchased with amount :

| Sl. No | Name of the Equipment | Qty. | Cost | Status |
|---|---|---|---|---|
| 1 | - | - | - | - |
| 2 | | | | |
| 3 | | | | |
| Total | | | | |

**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** | **7971** | **7695** | **4156** | **1594200** |
| **Water Samples** | **5288** | **5164** | **2736** | **528800** |
| **Plant samples** | **-** | **-** | **-** | **-** |
| **Manure samples** | **-** | **-** | **-** | **-** |
| **Others (specify)** | **-** | **-** | **-** | **-** |
| **Total** | **13259** | **12859** | **6892** | **2123000** |

**C. Details of samples analyzed during the 2019:**

| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages |
|---|---|---|---|
| **Soil Samples** | **404** | **404** | **145** |
| **Water Samples** | **298** | **298** | **100** |
| **Plant samples** | **-** | **-** | **-** |
| **Manure samples** | **-** | **-** | **-** |
| **Others (specify)** | **-** | **-** | **-** |
| **Total** | **702** | **702** | **245** |

**11.2 Mobile Soil Testing Kit**

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

| Mobile Kits | Date of purchase | Current status |
|---|---|---|
| **1.-** | **-** | **-** |
| **2.** | **-** | **-** |
| | | |

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

| | During 2019 | During 2020 | Cumulative progress (Total) |
|---|---|---|---|
| **Samples analyzed (No.)** | | | |
| **Farmers benefited (No.)** | | | |
| **Villages covered (No.)** | | | |

**11.3 Details of soil health cards issued based on SWTL &Mobile Soil Testing Kit during 2019:**

| Particulars | Date (s) | Villages (No.) | Farmers (No.) | Samples analyzed (No.) | Soil health cards issued (No.) |
|---|---|---|---|---|---|
| SWTL | 5-12-2020 | 59 | 98 | 99 | 99 |
| Mobile Soil Testing Kit | - | - | - | - | - |

**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** | **108** | **98** | **-** | **4** | **15** | **4** |

## 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) |
| Demonstration of Direct seeded rice | 650 | 60 | Rs.43000/ha. | Rs. 60000/ha. |
| Integrated Farming System | 90 | 40 | Rs. 100000/farm family/year | Rs. 150000/farm family/year |
| Honey bee cultivation | 1800 | 15 | Rs. 0.0/ Unit | Rs. 1200000/ Unit |
| Establishment of Scientific Dairy farms | 320 | 50 | Rs.11000 /animal / lactation | Rs. 20000/animal / lactation |
| Vegetable special micronutrient application in vegetable crops | 450 | 69 | Rs. 39,900/ ha. | Rs. 61500/ha. |

| | | | | |
|---|---|---|---|---|
| Demonstration of High yielding Bengalgram variety (JG-11) | 286 | 73 | Rs. 29154/ ha. | Rs. 35174 / ha. |
| Demonstration of Foxtail millet var. DHFt-109-03 | 150 | 60 | Rs.15000/ha. | Rs. 22000/ha. |
| Demonstration of Foxtail millet var. HN-46 | 30 | 05 | Rs. 15000/ha. | Rs. 23000/ha. |
| Bio-control agent (*Cryptolaemus*) | 500 | 20 | Rs. 0.0/ Unit | Rs. 5000/ acre |

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)**

**Technology :**

- ICM in Direct Seeded Rice (DSR) method
- Technology: Direct seeding using paddy tractor drawn seed drill, Weedicides and Cycle Weeder for weed management, ICM practices
- Major features: High cost of cultivation, scarcity of labor, water for irrigation, delayed planting, non awareness about use of seed drill
- Relevance to district: Paddy area in Koppal dist is 39000 ha.

**Extension activities carried out for spread of technology**

| Year | Taluk | Area (Acre) | No. of Demos | Training (No. farmers ) |
|---|---|---|---|---|
| 2016-17 | J.Kalgudi | 10 | 10 | 65 |
| 2017-18 | Yeradona | 10 | 10 | 65 |
| 2018-19 | Chellur | 10 | 10 | 150 |
| 2019-20 | Marali | 10 | 10 | 80 |
| 2020-21 | Thimmapur | 10 | 10 | 60 |

**Other activities for spread of technology:**

- Short messages , Field visits , Leaf lets, folders, leading newspaper coverage,
- Tie up with Agril. Dept in spread of technology
- Technical bulletin was published and distributed to farmers

**Spread of technology:**

This is a new technology to the farmers of Koppal Dist. and farmers are showing interest to adopt the technology. From 2015-16 to 2019-20 , morethan 6500 ha area is under DSR Paddy.

**Outcome :**

Adoption of ICM in DSR method using tractor drawn seed drill increases the yield 8-9% than conventional practice by saving cost of cultivation around 7000 to 9000 per acre in demonstration field

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

| Name of specific technology/skill transferred | No. of participants | % of adoption | Change in income (Rs.) | |
|---|---|---|---|---|
| | | | Before (Rs./Unit) | After (Rs./Unit) |
| Demonstration of Direct seeded rice | 650 | 60 | Rs.43000/ha. | Rs. 60000/ha. |
| Demonstration of High yielding Bengalgram variety (JG-11) | 240 | 68 | Rs.29154/ha. | Rs. 35174/ha. |
| Vegetable special micronutrient application in vegetable crops | 300 | 60 | Rs. 39900/ha. | Rs. 61500/ha. |

# PART XIII - LINKAGES

## 13A. Functional linkage with different organizations

| Name of organization | Nature of linkage |
|---|---|
| • Karnataka State Dept. of Agriculture (KSDA)<br>• Karnataka State Dept. of Horticulture (KSDH)<br>Dept. of AH & VS, Dept of Women and Child Welfare, ARS, NABARD, NGO (BAIF, Sarvodaya) | Trainings, Demonstration, field days, Joint Diagnostic survey, Awareness campaigns and meetings |
| 1. Dept. of Information and Broadcasting (AIR, DD-1) and Daily Newspapers like Prajavani, Vijaya Karnataka, Samyukta Karanataka, Deccan Herald, The Hindu and Local Newspapers | Live phone-in programmes, Radio tips, Press coverage, publicity etc. |

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.) |
|---|---|---|---|
| - | - | - | - |

## 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** | SREP | | | |
| **02** | **Research projects** | - | | | |
| | | | | | |
| **03** | **Training programmes** | Training on ICM, IPM, IDM and value addition to millets | **12** | **8** | |
| | | | | | |
| **04** | **Demonstrations** | Method demonstration, seed treatment, soil sampling | **9** | **4** | |
| | | | | | |
| **05** | **Extension Programmes** | | | | |
| | Kisan Mela | | | | |
| | Technology Week | | | | |
| | Exposure visit | | | | |
| | Exhibition | | | | |
| | Soil health camps | | **35** | - | |
| | Animal Health Campaigns | | | | |

| | | | | | |
|---|---|---|---|---|---|
| | Others (Pl. specify) | Women's day<br>World Food day | -- | **2** | |
| **06** | **Publications** | | | | |
| | Video Films | | | | |
| | Books | | | | |
| | Extension Literature | | | | |
| | Pamphlets | | | | |
| | Others (Pl. specify) | | | | |
| **07** | **Other Activities**<br>(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 |
|---|---|---|---|---|---|
| **1.** | **Technical guidance to FPO** | **Trainings, Demonstration and Exposure visits.** | **9.27 lakhs** | **6.6 lakhs** | **-** |

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

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

**13F. Details of linkage with RKVY**

| S. No. | Programme | Nature of linkage | Funds received if any Rs. | Expenditure during the reporting period in Rs. | Remarks |
|---|---|---|---|---|---|
| **1** | Empowerment of small and marginal farmers in integrated farming system through strengthening of missing link in six district of kalyana Karnataka region | Survey, trainings, Supply of missing components for IFS farming to the selected beneficiary farmers. | 45.50 lakhs | -- | To be implemented during Jan and February month 2021 |

### 13G. Kisan Mobile Advisory Services

| Month | No of Advisories | Message type (Text/Voice) | SMS/voice calls sent (No.) | | | | | | Total SMS/Voice calls sent (No.) | Farmers benefitted (No.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Crop | Livestock | Weather | Marketing | Awareness | Other enterprises | | |
| January | 3 | Text | 2 | | | | | 1 | 3 | 9058 |
| February | 2 | Text | 1 | | | 1 | | | 2 | 9058 |
| March | 2 | Text | | 1 | | | 1 | | 2 | 9058 |
| April | 3 | Text | 1 | 1 | 1 | | | | 3 | 9058 |
| May | 3 | Text | 1 | | 1 | | | 1 | 3 | 9058 |
| June | 4 | Text | 1 | | 1 | | 1 | 1 | 4 | 9058 |
| July | 4 | Text | 2 | 1 | | | 1 | | 4 | 9058 |
| August | 3 | Text | 1 | | | | | 1 | 3 | 9058 |
| September | 4 | Text | 2 | 1 | 1 | | | | 4 | 9058 |
| October | 4 | Text | 1 | | 1 | | 1 | 1 | 4 | 9058 |
| November | 3 | Text | 1 | | 1 | | | 1 | 3 | 9058 |
| December | 3 | Text | 1 | 1 | | | | 1 | 3 | 9058 |
| **Total** | **38** | | | | | | | | | |

## PART XIV- PERFORMANCE OF INFRASTRUCTURE IN KVK

### 14A. Performance of demonstration units (other than instructional farm)

| Sl. No. | Demo Unit | Year of establishment | Area (ha) | Details of production | | | Amount (Rs.) | | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Variety | Produce | Qty. | Cost of inputs | Gross income | |
| 1 | Vermicompost Units | 2011 | 0.1 | - | Commercial | 3914 kg | - | 26684 | The mentioned quantity of vermicompost and worm are supplied to 18 farmers |
| | Earth worms | 2011 | 0.1 | - | Commercial | 1.95 kg | | 975 | |
| 2 | Horticulture Nursery | 2013 | 0.2 | - | Commercial | 774 Nos | | 11550 | The mentioned quantity of planting material was supplied to 32 farmers |
| 3 | Chaff Cutter Cum Grinder | 2013 | 1No. | - | Demo | - | - | - | - |
| 4 | Nutrition Garden | 2013 | 0.05 | - | Demo | - | - | - | - |
| 5 | Vegetable Special | 2014 | 01 Unit | - | Commercial | 704 kg | - | 105600 | The mentioned quantity of Vegetable Special was supplied to 70 farmers |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 6 | Dairy | 2015 | 01 Unit | Cow/ Buffalo | Commercial | 2170.3 lit | - | 72949 | - |
| 7 | Honey bee unit | 2014 | 02 unit | - | Demo | - | - | - | - |
| 8 | Azolla Unit | 2013 | 2 No. | - | Demo | - | - | - | - |
| 9 | Millet Processing Unit | 2013 | 1 No. | - | Commercial | - | - | - | - |

**14B. Performance of instructional farm (Crops) including seed production**

| Name of the crop | Date of sowing | Date of harvest | Area (ha) | Details of production | | | Amount (Rs.) | | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Variety | Type of Produce | Qty. | Cost of inputs | Gross income | |
| Cereals | | | | | | | | | |
| Paddy | 15.01.2020 | 05.05.2020 | 11.7 | GGV-05-01 | Bulk | 702 | 1.3 lakh | 1000000 | |
| Paddy | 05.08.2020 | 24.12.2020 | 9.5 | GGV-05-01 | F/S, C/S | 310 | 1.3 lakh | 900000 | Yet to be processed |
| Paddy | 05.08.2020 | 24.12.2020 | 2.0 | RNR-15048 | F/S | 40 | 0.20 lakh | 100000 | |
| Pulses | | | | | | | | | |
| | | | | | | | | | |
| Oilseeds | | | | | | | | | |
| | | | | | | | | | |
| Fibers | | | | | | | | | |
| | | | | | | | | | |
| Spices & Plantation crops | | | | | | | | | |
| | | | | | | | | | |
| Floriculture | | | | | | | | | |
| | | | | | | | | | |
| Fruits | | - | | | | | | | |
| | | | | | | | | | |
| Vegetables | | | | | | | | | |
| | | | | | | | | | |
| Others (specify) | | | | | | | | | |
| Tamarind fruit | - | - | - | - | Tamarind fruit | 64 kg | - | 1920 | |
| | | | | | | | | | |

**14C. Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)**

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

**14D. Performance of instructional farm (livestock and fisheries production)**

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

**14E. Utilization of hostel facilities**

Accommodation available (No. of beds)

| Months | No. of trainees stayed | Trainee days (days stayed) | Reason for short fall (if any) |
|---|---|---|---|
| January | 23 | 77 | - |
| February | 07 | 80 | - |
| March | 02 | 13 | Due to Lockdown period |
| April | 03 | 90 | - |
| May | 13 | 89 | - |
| June | 15 | 83 | - |
| July | 08 | 92 | - |
| August | 14 | 98 | - |
| September | 21 | 115 | - |
| October | 17 | 136 | - |
| November | 09 | 91 | - |
| December | 11 | 188 | - |

**14F. Database management**

| S.No | Database target | Database created |
|---|---|---|
| 1 | Trainings, OFT/ FLD Demo. And Extension Activities | Trainings and Extension Activities |

**14G. Details on Rain Water Harvesting Structure and micro-irrigation system**

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

# 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.Vataparvi | 181-192 | 22-44 | 180-202 | 0.3-0.4 | Vermicompost pits, Compost, Jeevamrutha, waste D-composer, Panchagavya | Redgram, Bengalgram | TS-3R JG-11 | Vermicompost Jeevamrutha PSB Trichodurma Metarizium Veticilium Erejala | 13.24 10.57 | 25830 23510 | 46300 18600 |
| 2 | 1.Menadala | 180-198 | 23-48 | 178-198 | 0.3-0.4 | Vermicompost pits, Compost, Jeevamrutha, waste D-composer, Panchagavya | Redgram Bengalgram | TS-3R JG-11 | Vermicompost Jeevamrutha PSB Trichodurma Metarizium Veticilium Erejala | 14.03 10.14 | 25570 22800 | 45350 19100 |

## 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 | 91 | 10714 | 10714 | 17 | 863 |

**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 |
|---|---|---|---|---|---|
| - | - | - | - | - | - |

**15.4Seed 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.) |
| 1 | Sunflower | RSFH-1887 | 10 | 25 | 10 | 25 |
| 2 | Sunflower | KBSH-41 | 10 | 25 | 10 | 25 |
| 3 | Groundnut | Dharani | 20 | 50 | 20 | 50 |
| | Total | | **40** | **100** | **40** | **100** |

**15.6 CFLDs on Pulses:**

| Sl.No. | Crop | Varieties demonstrated and check | Allocated | | Implemented | |
|---|---|---|---|---|---|---|
| | | | Area (ha) | Demos (No.) | Area (ha) | Demos (No.) |
| 1 | Greengram | Co-8 | 10 | 25 | 10 | 25 |
| 2 | Redgram | TS-3R | 10 | 25 | 10 | 25 |
| 3 | Bengalgram | BGD-103 | 20 | 50 | 20 | 50 |
| 4 | Blackgram | PU-31 | 10 | 25 | 10 | 25 |
| | Total | | **50** | **125** | **50** | **125** |

### 15.7 Krishi Kalyan Abhiyan

| Type of Activity | 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 |
| - | | - | - | - | | - | - | - | - | - |

### 15.8 Micro-Irrigation

| Type of Activity | 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 |
| - | - | - | - | - | - | - | - | - | - | - |

### 15.9 Tribal Sub-Plan (TSP)

| 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 | | | | | | |
| - | - | - | - | | - | - | - | - | - | - | - | - | - | - | - | - | - |

**15.10 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) | - | - |
| FLDs – Bio-fortified Crops (activity in no. of Unit) | - | - |
| FLDs – Value addition(activity in no. of Unit/Enterprise) | - | - |
| FLD- Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise) | - | - |
| Trainings | - | - |
| Extension Activities | - | - |

## 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 |
| 163 | 10 | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |

## 15.13 KSHAMTA

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

## 15.14 DFI

| Sl | District | Taluks | Villages | Farmers (No.) | Average Benchmark Income (Rs/year) | Crops/ enterprises | KVK Interventions | Additional Net Income generated due to KVK interventions (Rs/year) | Total income of farmer (Rs/year) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Koppal | Koppal | Chikkabomannal | 50 | 33400 | Sunflower Redgram, Greengram, Maize, Bengalgram Groundnut | FLD OFT Trainings Field day Field visit | 10,000 | 43400 |
| 2 | Koppal | Kushtagi | Muddalagundi | 50 | 77250 | Sunflower Redgram, Greengram, Maize, Bengalgram Groundnut | FLD OFT Trainings Field day Field visit | 12000 | 89250 |
| 3 | Koppal | Gangavathi | Chikkadankankal | 50 | 110580 | Paddy | FLD | 15000 | 125580 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Onion<br>Maize | OFT<br>Trainings<br>Field day<br>Field visit | | |
| 4 | Koppal | Yelburaga | Vataparvi | 50 | 227800 | Sunflower<br>Redgram,<br>Greengram,<br>Maize,<br>Bengalgram<br>Groundnut<br>Vegetables<br>Seed production | FLD<br>OFT<br>Trainings<br>Field day<br>Field visit | 25000 | 252800 |

## 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 | - | - | - | - | - | - | - |
| With KVK | | | | | | | |
| PFMS | SBI | Gangavati | 009752 | Senior Scientist & Head | 10809525754 | 583002227 | SBIN0009752 |
| ICAR_RF | SBI | Gangavati | 009752 | Senior Scientist & Head | 10809526032 | 583002227 | SBIN0009752 |
| KVK_Imprest AC | SBI | Gangavati | 009752 | Senior Scientist & Head | 38650317733 | 583002227 | SBIN0009752 |

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

| S. No. | Particulars | Sanctioned | Released | Expenditure |
|---|---|---|---|---|
| **A. Recurring Contingencies** | | | | |
| 1 | **Pay & Allowances** | 15124000 | 15124000 | 13982052 |
| 2 | **Traveling allowances** | 200000 | 200000 | 193294 |
| 3 | **Contingencies** | | | |
| *A* | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 175000 | 175000 | 177435 |
| *B* | POL, repair of vehicles, tractor and equipments | 225000 | 225000 | 196277 |
| *C* | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained) | 125000 | 125000 | 117800 |
| *D* | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | 20000 | 20000 | 10336 |
| *E* | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | 350000 | 350000 | 212955 |
| *F* | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | 22000 | 22000 | 21255 |
| *G* | Training of extension functionaries | 10000 | 10000 | 9975 |
| *H* | Maintenance of buildings | 100000 | 100000 | 99881 |
| *I* | Establishment of Soil, Plant & Water Testing Laboratory | 25000 | 25000 | 23210 |
| *J* | Library | 10000 | 10000 | 3030 |
| *K* | Extension Activities | 35000 | 35000 | 18000 |
| *L* | Nutrigarden | 25000 | 25000 | 12235 |
| *M* | EDP | 10000 | 10000 | 0 |
| **TOTAL (A)** | | **16456000** | **16456000** | **15077735** |
| **B. Non-Recurring Contingencies** | | **-** | **-** | **-** |
| 1 | **Works** | **-** | **-** | **-** |
| 2 | **Equipment including SWTL & Furniture** | **-** | **-** | **-** |
| 3 | **Vehicle** (Four wheeler/Two wheeler, please specify) | **-** | **-** | **-** |
| 4 | **Library** (Purchase of assets like books & journals) | **-** | **-** | **-** |
| **TOTAL (B)** | | | **-** | **-** |
| **C. REVOLVING FUND** | | | **-** | **-** |
| **GRAND TOTAL (A+B+C)** | | **16456000** | **16456000** | **15077735** |

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

| Year | Opening balance as on 1st January | Income during the year | Expenditure during the year | Net balance in hand as on 31stDecember of each year |
|---|---|---|---|---|
| April 2017 to March 2018 | 1681185 | 3520499 | 3241391 | 1960293 |
| April 2018 to March 2019 | 1960293 | 3444836 | 2818463 | 816666 |
| April 2019 to March 2020 | 816666 | 52,61,044 | 39,00,306 | 21,77,404 |

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

| Name of the staff | Designation | Title of the training programme | Institute where attended | Dates |
|---|---|---|---|---|
| Dr.Kavitha Ullikashi | **Scientist (Home Science)** | National webinar on approaches towards development of rural and agriculture sector in the present scenario | JNKVV-Tikamagarh (MP) | 8 and 9th May 2020 |
| | | Webinar (National) Food & Nutrition in the present scenario at Covid-19 | Dept. of Home Science, Vasant Kanya Mahavidyalaya, Kamachna, Varanasi | 13-14th May 2020 |
| | | 21st days training programme on "preparing and management of result oriented research projects in agriculture, Horticulture, Animal husbandary and allied sectors" | NADCL Baramulla, J&K & AEDS (UP) | 26th May to 15th June, 2020 |
| | | National Webinar "Community Science-Linkages and way forward | College of Community & applied sciences, MPUAT, Udaipur, Rajasthan | 3rd June, 2020 |
| | | National Webinar on "Entrepreneurship in food processing | UAS, Dharwad and National Higher Education Project, ICAR | 7-8th July 2020 |

| | | | | |
|---|---|---|---|---|
| | | Precision agriculture a technology for income augmentation and entrepreneurship development | Multi Technology Testing centers and Vocational training center, College of Fishers, CAU, Imphal, India | 7-18th July 2020 |
| | | Five days online working on "Modern Methodologies in statistical data analysis for effective agriculture research | NAHEP, UAS, Raichur | 13-17th July 2020 |
| | | National Webinar on "Addressing the challenges of health and nutrition during covid-19 a holistic approach". | Dept. of Food and Nutrition and Research Centre, Smt. VHD Centeral Institute of Home Science, Bengaluru in Association with Actrusa International of Bengalore. India | 27-28th July 2020 |
| | | One week National Webinar series on Covid-19 and Nutrition | Karnataka State Akkamahadevi Womens University, Vijayapur, Dept of Food Processing and Nutrition | 17-22nd August 2020 |
| | | 10 Day Webinar on " Role of Nano Technology in Food and Agriculture" | Center for Nano Technology, College of Agricultural Engineering, UAS, Raichur, Karnataka | 20-29th August 2020 |
| | | International Webinar Series on "Nutrition and health-Eat, right, Bite by bite" | RKVY-RAFTAAR, Agri Business Incubator College of Food Processing Technology and Bio Energy, Anand Agricultural University, Anand, Gujarat (India) | 21-25th September 2020 |
| Mr. Raghavendra Yaligar | Scientist (Agril. Entomology) | National webinar on approaches towards development of rural and agriculture sector in the present scenario | JNKVV-Tikamagarh (MP) | 8 and 9th May 2020 |

| | | | | |
|---|---|---|---|---|
| | | Five days online working on "Modern Methodologies in statistical data analysis for effective agriculture research | NAHEP, UAS, Raichur | 13-17th July 2020 |
| | | Recent advances in Entomology- New dimensions to invigorate the insect pest management | UHS, Bagalkot, COH, Bidar | 7-18th December 2020 |
| Dr. Jyothi R | **Scientist (Horticulture)** | International webinar series on "Moringa-A super food | EDII periyakulam Horticulture business incubation, forum | 05.10.2020 to 07.10.2020 |
| | | 10 days National level online training on "Recent Advances in Entomology- New Dimensions to Invigorate the insect pest management | UHS, Bagalkot, College of Horticulture, Bidar | 7th to 18th December 2020 |
| | | National webinar on approaches towards development of rural and agriculture sector in the present scenario | JNKUV-Tikamagarh (MP) | 8 and 9th May 2020 |
| | | National training on seed production techniques in agronomical and Horticultural crops | R.B. College Agriculture Campus, Mudi Agra | 13th -18th July, 2020 |
| | | webinar on new opportunities in medicinal plants sector for farmers and entrepreneurs | Dept of Life Science, Mansarovar Global University | 24th May 2020 |
| | | Five days online working on "Modern Methodologies in statistical data analysis for effective agriculture research | NAHEP, UAS, Raichur | 13-17th July 2020 |
| | | 21st days training programme on "preparing and management of result oriented research projects in agriculture, Horticulture, Animal husbandary and allied sectors" | NADCL Baramulla, J&K & AEDS (UP) | 26th May to 15th June, 2020 |

| | | | | |
|---|---|---|---|---|
| **Dr. Mahantesh M.T.** | Scientist (Animal Science) | Participatory training metbhods for effective learning | MANAGE, Hyderabad | 1-5th Dec, 2020 |
| | | Leadership skills for improving performance in agri and allied sectors | | 14-8th Dec, 2020 |
| **Dr. Radha J.** | Scientist (Seed Science & Technology) | National webinar on approaches towards development of rural and agriculture sector in the present scenario | JNKUV-Tikamagarh (MP) | 8 and 9th May 2020 |
| | | Webinar on "Legal framework for protection of Plant varieties in India: Challenges and Opportunities" | Intellectual Property Facilitation Cell (IPFC), AIP – ICRISAT | **26th August 2020** |
| | | Modern production technologies in paddy | AICRP on Rice, ARS, Gangavathi, UAS, Raichur | 21-25th September 2020 |

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.**

- Technological information was given to farmers
- More than 35 field visit were made which helped in increasing confidence of farmers
- Daily message on preparation for kharif season, marketing facility, Agriwar room etc., sent to farmers through whatsapp group
- Market linkage provided to farmers with the help of Horticulture department & Hopcoms,
- Marketing for the horticulture produceoutside the district and state was madewith the help of Horticulture department by communicating with the purchaser
- Information given on value addition and storage during field visits
- Information on marketing for horticulture crops had given through media and many farmers benefited
- Continues information and suggestions given to farmers through press media
- Timely information given by the scientists through All India Radio
- Information on vermicomposting, availability of seeds,mushroom cultivation,pest management, sale of horticulture produce etc., given through mobile phone.

Vist to Gangadarappa bannana drying unit at Ramasagar village

Advisory and distribution of soil test report

Visit to paady field at KVK, Gangavathi

Field visit to guava orchard and suggesting prunning

Advisory about paddy seeds availability

Filed visit to sapota orchard

ಪ್ರಜಾವಾಣಿ 2

ತೋಟಗಾರಿಕೆ ಇಲಾಖೆಯಿಂದ ರೈತರಿಗೆ ಸಹಾಯಕ್ಷ

## ರೈತರಿಂದ ನೇರವಾಗಿ ಮಾರಾಟದ ವ್ಯವಸ್ಥೆ

ತೋಟಗಾರಿಕೆ ಇಲಾಖೆಯಿಂದ ತರಕಾರಿ, ಹಣ್ಣು ಮನೆ ಬಾಗಿಲಿಗೆ ಮಾರಾಟ

ಪ್ರಜಾಪರ್ವ ವಾರ್ತೆ

ಗಂಗಾವತಿ : ಲಾಕ್‌ಡೌನ್ ಸಂದರ್ಭದಲ್ಲಿ ತೋಟಗಾರಿಕೆ ಬೆಳೆಗಾರರು ಬೆಳೆದ ಬೆಳೆಗಳು ಮಾರಾಟವಾಗದೇ ನಷ್ಟವಾಗುತ್ತಿದ್ದು, ಇದನ್ನು ಗಮನಿಸಿದ ಇಲ್ಲಿನ ಕೃಷಿ ವಿಜ್ಞಾನ ಕೇಂದ್ರ ರೈತರ ನೆರವಿಗೆ ಧಾವಿಸಿ ರೈತರಿಂದ ಮಾವು ಖರೀದಿಸಿ ಮಾರಾಟ ಮಾಡುತ್ತಿದೆ.

ಈ ನಿಟ್ಟಿನಲ್ಲಿ ಕೃಷಿ ವಿಜ್ಞಾನ ಕೇಂದ್ರವು ರೈತರಿಗೆ ನೇರವಿಯನ್ನು ಒದಗಿಸಿರುವ ತೋಟಗಾರಿಕೆ ತಜ್ಞೆ ಡಾ.ಜ್ಯೋತಿ.ಆರ್. ಮಾತನಾಡಿ, ಮಾವು ಹಿನ್ನುವುದರಿಂದ ಆರೋಗ್ಯಕ್ಕೆ ತುಂಬಾ ಪ್ರಯೋಜನವಿದ್ದು, ಇದರಲ್ಲಿ ವಿಟಮಿನ್"ಸಿ'ಮತ್ತು'ಎ'ಅಂತ್ರದೆ ಮತ್ತು ದೇಹದ ರೋಗ ನಿರೋಧಕ ಶಕ್ತಿ ವೃದ್ಧಿಸಿ ಕೊಲೆಸ್ಟಿರಲ್ ನಿಯಂತ್ರಣದಲ್ಲಿಡಲು ಸಹಕರಿಸುತ್ತದೆ. ನೆನೆಸಿನ ಶಕ್ತಿ ಮತ್ತು ಏಕಾಗ್ರತೆ ಹೆಚ್ಚಿಸುವುದಲ್ಲದೇ ದೇಹಕ್ಕೆ ಕಾಲ್ಷಿಯಮ್ ಮತ್ತು ಕಬ್ಬಿಣವನ್ನು ಒದಗಿಸುವುದಲ್ಲದೇ ರಕ್ತಹೀನತೆಯಿಂದ ಬಳಲುತ್ತಿರುವವರಿಗೆ ಈ ಮಾವಿನ ಹಣ್ಣು ಉತ್ತಮ ಆಹಾರವಾಗಿದೆ. ಬಿಸಿಲಿನಲ್ಲಿ ದೇಹಕ್ಕೆ ತಂಪು ನೀಡಿ ಬಿಸಿಲಿನಿಂದ ಆಗುವ ಅಘಾತವನ್ನು ತಪ್ಪಿಸುತ್ತದೆ. ಆದ್ದರಿಂದ, ರೈತರು ಮಾವಿನ ಬಳಕೆಯಿಂದ ಆರೋಗ್ಯ ಮತ್ತು ರೈತರಿಗೆ ನೆರವಿಗೆ ಧಾವಿಸಿದಂತೆ ಆಗುತ್ತದೆ ಹೇಳಿದರು.

ಹಿರಿಯ ವಿಜ್ಞಾನಿ, ಮಾಬ್ಯಸ್ಯ ಡಾ.ಎಮ್.ಸಿ.ರಮಿ, ಕೀಟ ತಜ್ಞ ರಾಘವೇಂದ್ರ ವಿಲಿಗಾರ ಇನ್ನಿತರು ಉಪಸ್ಥಿತರಿದ್ದರು.