**KRISHI VIGYAN KENDRA, CHITRADURGA**

**ANNUAL REPORT- 2021**

**(FOR THE PERIOD FROM 01 January, 2021 TO 31 December, 2021 along with good action oriented photographs in jpeg format for all activities of KVK with size of more than 2 MB need to be sent separately with caption in the file name)**

**KVK Address with QR Code, web site, E-mail, Tel and Host Organization details**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| KVK Address | Telephone | | E mail | **Web Address** |
| ICAR- Krishi Vigyan Kendra, Chitradurga  Babbur Farm, Hiriyur-577 598, Chitradurga district,  Karnataka State. | Office  08193-200081 | - | [kvkchitradurgahyr@gmail.com](mailto:kvkchitradurgahyr@gmail.com)  [kvk.Chitradurga@icar.gov.in](mailto:kvk.Chitradurga@icar.gov.in)  [kvkchitradurgaicar@uahs.edu.in](mailto:kvkchitradurgaicar@uahs.edu.in) | kvkct.uahs.edu.in |

Host organization details

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Address | Telephone | | E mail | **Web Address** |
| Office | Fax |  |  |
| Keladi Shivappa Nayaka University Of Agricultural & Horticultural Sciences, Shivamogga ,  Savalanga Road, Navile, Shivamogga,  Karnataka-Pin: 577 225 | 08182- 267001 | 08182-298008 | vcuahs2014@gmail.com | uahs.in |

**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, 2021 to 31 December, 2021.
* Action photographs with relevant captions covering all OFTS/FLDS/TRAINING/EXTENSION activities of the KVK in High resolution should be submitted separately in a CD/DVD along with this report. A part from this, soft copy of the activity wise photos may be submitted in JPEG format.
* Prepare Summary tables carefully tallying with the relevant portions of the main report on all aspects.
* Retain the blank column and rows as such and do not merge the cells. Please specify NIL, wherever not applicable or details are not available.
* Check the names of varieties and hybrids and specify in the report.
* Check the units and totals of each data table.
* Extension activity under celebrations for each important day, please insert separate rows and give appropriate data separately. Clubbing of data should be avoided.
* Success stories/case studies should be supported with data tables and graphs. Without photos success stories will not be considered for inclusion in Annual Report of ATARI.

PART I – GENERAL INFORMATION ABOUT THE KVK

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| KVK Address | Telephone | | E mail | **Web Address** |
| ICAR- Krishi Vigyan Kendra, Chitradurga  Babbur Farm, Hiriyur-577 598, Chitradurga district,  Karnataka State. | Office  08193-200081 | - | [kvkchitradurgahyr@gmail.com](mailto:kvkchitradurgahyr@gmail.com)  [kvk.Chitradurga@icar.gov.in](mailto:kvk.Chitradurga@icar.gov.in)  [kvkchitradurgaicar@uahs.edu.in](mailto:kvkchitradurgaicar@uahs.edu.in) | kvkct.uahs.edu.in |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Address | Telephone | | E mail | **Web Address** |
| Office | Fax |  |  |
| Keladi Shivappa Nayaka University Of Agricultural & Horticultural Sciences, Shivamogga ,  Savalanga Road, Navile, Shivamogga,  Karnataka-Pin: 577 225 | 08182- 267001 | 08182-298008 | vcuahs2014@gmail.com | uahs.in |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Telephone / Contact | | |
|  | Residence | Mobile | Email |
| Dr. S. Onkarappa | - | 9480838201  08193-200081 | [onkarappas@yahoo.com](mailto:onkarappas@yahoo.com) |

1.4. Year of sanction:

2000 under NATP, 2004 as full fledged KVK

**1.5. Staff position as on 31 December 2021**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 | Vacant | - | - | - | - | - | - | - | - | - |
| 2 | Scientist/SMS | Dr. S. Onkarappa | Senior Scientist & Head  (I/c) &  Scientist | M | Crop Protection | Ph. D | 79800-211500 | 101100 | 17-07-2009 | Permanent | Others |
| 3 | Scientist/SMS | Dr. Amaresh Kumar K | Scientist | M | Agriculture Extension | Ph.D | 131400-217000 | 143600 | 31-3-2018 | Permanent | SC |
| 4 | Scientist/SMS | Dr. Parashuram Chandravanshi | Scientist | M | Soil Science | Ph.D | 131400-217000 | 139400 | 26-3-2018 | Permanent | SC |
| 5 | Scientist/SMS | Dr. Prakash Kerure | Scientist | M | Horticulture | Ph. D | 68900-205500 | 87300 | 10-11-2011 | Permanent | OBC |
| 6 | Scientist/SMS | Vacant | - | - | - | - | - | - | - | - | - |
| 7 | Scientist/SMS | Vacant | - | - | - | - | - | - | - |  | - |
| 8 | Programme Assistant ( Lab Tech.) | Mrs. Geetha Kumari, B.N. | Programme Assistant /training Asst | F | Agriculture | M.Sc.(Soil Science) | 44900-142400 | 53600 | 04-11-2010 | Permanent | OBC |
| 9 | Programme Assistant (Computer) | Mrs. Kavitha P. Naik | Programme Assistant (Computer) | F | Computer Science | B.Sc (Computer Science) | 44900-142400 | 49000 | 30-11-2013 | Permanent | OBC |
| 10 | Programme Assistant/ Farm Manager | Mr. Rudramuni T | Farm Manager | M | Farm Manager | M.Sc.(Entomology) | 44900-142400 | 53600 | 14-5-2019 | Permanent | Others |
| 11 | Assistant | Mr. D. Gurumurthy | Assistant | M | Accounts & Administration | M.A | 37900-70850 | 42000 | 01-01-2013 | Permanent | Others |
| 12 | Jr. Stenographer | Vacant | - | - | - | - | - | - | - | - | - |
| 13 | Driver - 1 | Mr. Mehaboob Patel | Driver | M | Tractor driver | PUC | 30350-58250 | 36000 | 23-10-2008 | Permanent | OBC |
| 14 | Driver - 2 | Mr. Hariprasad | Driver | M | LMV | PUC | 21400-42000 | 22950 | 14-11-2018 | Permanent | SC |
| 15 | SS-1 | Vacant | - | - | - | - | - | - | - | - | - |
| 16 | SS-2 | Mrs. Nagamma | Messenger | F | Messenger | 7thstd | 17000-28950 | 19050 | 24-11-2016 | Permanent | OBC |

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

|  |  |  |
| --- | --- | --- |
| **S. No.** | **Item** | **Area (ha)** |
| 1 | Under Buildings | 08.00 |
| 2. | Under Demonstration Units | 03.00 |
| 3. | Under Crops | 6.6 |
| 4. | Orchard/Agro-forestry | 1 |
| 5. | Others | 1.4 |

**1.7. Infrastructural Development:**

**A) Buildings**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S.  No. | Name of building | Source of  funding | Stage | | | | | |
| Complete | | | Incomplete | | |
| Completion  Date | Plinth area (Sq.m) | Expenditure (Rs. in lakh ) | Starting Date | Plinth area  (Sq.m) | Status of construction |
| 1. | Administrative  Building | ICAR | 2009 | 550 | 55.0 | - | - | - |
|  | Soil Lab | UAHS | 2018 | 220 | 38.0 | - | - | - |
| 2. | Farmers Hostel | ICAR | December 2002 | 305 | 30.0 | - | - | - |
| 3. | Staff Quarters | - | - | - | - | - | - | - |
| 4. | Demonstration Units |  |  |  |  |  |  |  |
|  | 1.Vermi compost Unit | RKVY | 29-3-2017 | 10 | 0.4 | - | - | - |
|  | 2. Nursery |  |  | 486 | 0.6 | - | - | - |
| 5 | Fencing | - | - | - | - | - | - | - |
| 6 | Rain Water harvesting system | ICAR | March 2008 |  | 9.70 | - | - |  |
| 7 | Threshing floor | - | - | - | - | - | - | - |
| 8 | Farm godown | - | - | - | - | - | - | - |
| 9 | Plant Health Clinic | NHM | June 2008 | - | 20 | - | - | - |
| 10 | Vehicle & Implement Shed | ICAR | Sept 2011 | - | 2.65 | - | - | - |

B) Vehicles

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Type of vehicle** | **Year of purchase** | **Cost (Rs.)** | **Total kms. Run** | **Present status** |
| Mahindra Bolero KA 16 N 4264 | 2017 | 6,63,495 | 208146 Km | Good Condition |
| Tractor | 2007 | 4,66,319 | 4979.2 Hrs | Good Condition |
| Two Wheeler (Hero Honda) KA 16 S 4401 | 2009 | 42,645 | 43627Km | Good Condition |
| Scooter (Honda Activa) KA 16 S 4415 | 2009 | 39,350 | 69275 Km | Good Condition |
| TVS Victor KA04EF8139 | 2003 | 38,363 | 74772 km | Not in working condition |

**C) Lab equipment & AV aids**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name of the equipment | Year of purchase | Quantity (No.) | Cost (Rs.) | Present status |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |

**D) Farm equipment and implements**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name of the equipment/implement | Year of purchase | Quantity (No.) | Cost (Rs.) | Present status |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |

**1.8. Details of SAC meeting organized**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date** | **Number of Participants** | **Salient Recommendations** | **Action taken** | **Remarks, if any** |
| 20-01-2022 | 36 | * To continue the demonstrations on seed production of fodder (CoFS-31) at KVK farm and kitchen garden and dry land horticulture at farmer’s fields. * To update the knowledge of progressive farmers with recent technologies and ensure the dissemination of the same to the fellow farmers. - **Vice Chancellor, Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga** | * Demonstration and seed production of CoFS-31 was carried out since from 2017 and it will be continued for further spread. * Kitchen garden and dry land horticulture in farmers field will be demonstrated. * The Knowledge on recent technologies will be disseminated through capacity building programmes. | - |
|  |  | * To encourage and support the IFS system at farmer’s fields. * To encourage the farmers to adopt compost preparation by areca husk by using compost cultures.- **Director of Extension & Chairman of SAC, Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga** | * IFS technology demonstration at farmers field will be taken up. * OFT on Areca husk composting demonstrated and it will be continued | - |
|  |  | * To include the contingency crops in the action plan, to continue the seed production of onion and to maintain the documentation of kitchen garden demonstration. * To conduct trainings on soil and water conservation practices and to promote tissue culture pomegranate cultivation. * Introducing groundnut variety Kadari Lepakshi among the farming community. - **Principal Scientist and Nodal Officer, ATARI, Bengaluru** | * Contingent crop plan for aberrant weather condition will be published and create awareness through campaign in *Kharif* season * Under NICRA project the soil and water conservation practices will be initiated and tissue culture pomegranate cultivation awareness will be created through capacity building programmes. * OFT on Groundnut variety including Kadari Lepakshi will be planned. | - |
|  |  | * To demonstrate the newly released millet varieties from UAS, Dharwad. * **Providing information on the source of availability of** tissue **culture banana to farmers.-** Dean, College of Horticulture, Hiriyur | * FLD and KVK demo plot of different new varieties of millet crops will be demonstrated and awareness will be created . * Through media and trainings the information on availability of tissueculture banana will be spread among needy farmers. | - |
|  |  | * To create awareness on importance of secondary agriculture and to promote the same among the farming community. * Conducting trainings on organic farming and value addition in banana. * Essentiality of Scientist (Home Science) at KVK, Hiriyur**.-** **Associate Director of Research, ZAHRS, Hiriyur** | * Under ODOP project the importance of secondary agriculture in groundnut will be promoted. * Organic farming and value addition in banana awareness will be created through capacity building programmes . * University officers meeting ,the posts of Home Science and Agril. Extension were sanctioned for appointment under contractual services. | - |
|  |  | * To conduct trainings on management of pest and diseases in mulberry. - **Deputy Director of Sericulture, Chitradurga** | * Capacity building programmes on management of pest and diseases in mulberry will initiated. | - |
|  |  | * To conduct trainings on effective management of army worm in Maize. * To provide information on finger millet varieties suitable for value addition and to continue bi-monthly and tri-monthly workshops for extension functionaries.- Deputy Director of Agriculture II, Challakere division | * Demonstration and awareness programme on army worm in Maize will be initiated. * Bi-monthly and tri-monthly workshops for extension functionaries will be organized as per the schedule and Finger millet varieties suitable for value addition will be educated through capacity building | - |
|  |  | * To create awareness among the farmers on importance of intercropping and mixed cropping in major crops of the district.- **Professor (Agronomy), College of Horticulture, Hiriyur** | * Demo and awareness programme on importance of intercropping and mixed cropping in major crops will be initiated. |  |
|  |  | * To conduct demonstrations on management of sterility mosaic virus and pod fly in Redgram. * To conduct trainings on management of leaf minor and collar rot in Groundnut.- Scientist and Assistant Professor (Genetics and plant breeding), AICRP on Groundnut, ZAHRS, Hiriyur | * OFT on on management of sterility mosaic virus and pod fly in Redgram is planned. Similarly management of leaf minor and collar rot in Groundnut will be initiated. |  |
|  |  | * To conduct trainings on hydroponics, groundnut chikki preparation and areca husk composting to members of FPO. * Creating awareness about the preparation of green juice by using green leafy vegetables and encouraging micro enterprises at Chitradurga district.- Assistant General Manager, NABARD, Chitradurga | * For FPO’s on hydroponics, groundnut chikki preparation and areca husk composting awareness programme will be initiated. |  |
|  |  | * To conduct trainings on hydroponics and IFS in collaboration with Veterinary department.- **Assistant Director, Dept. of Veterinary, Hiriyur** | * KVK programmes collaborated with Animal husbandry department on hydroponics and IFS demonstrations. |  |
|  |  | * To make arrangements for the availability of compost culture at KVK.- **Assistant Director of Agriculture, DATC, Hiriyur** | * Under start up programme microbial cultures will be made available to needy farmers. |  |
|  |  | * To encourage the farmers to adopt agro-forestry and also suggested to plant forest trees all along the bunds of farm lands.- **Assistant Conservator of Forest, Social forestry division, Chitradurga** | * Awareness programme on adoption of agro-forestry will be initiated |  |
|  |  | * To conduct trainings for extension functionaries of Dept. of Horticulture on pest and disease management of horticultural crops.- **Assistant Horticulture Officer, Dept. of Horticulture, Chitradurga** | * In Tri-monthly workshop the management of pest and disease of horticultural crops will be covered. |  |
|  |  | * To conduct trainings on value addition by Home Scientist and further information on value addition is required by CFTRI scientists. - **Progressive farm woman, V. V. Pura, Hiriyur** | * Quantification of value added products and its nutritive value will be furnished with the help of CFTRI scientists in value added products by Home Scientist, KVK through capacity building programmes . |  |
|  |  | * To conduct trainings on mushroom cultivation and Bee-keeping. - **Progressive farm woman, Hiriyur** | * Trainings on mushroom cultivation and Bee-keeping will be organized. |  |

**PART II - DETAILS OF DISTRICT**

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

|  |  |
| --- | --- |
| S. No | Farming system/enterprise |
| 1 | Agriculture |
| 2 | Agriculture + Animal husbandry |
| 3 | Agriculture + Horticulture |
| 4 | Agriculture + Animal Husbandry+ Horticulture |
| 5 | Agriculture + Sericulture + Horticulture + Animal Husbandry |

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

|  |  |  |
| --- | --- | --- |
| S. No | Agro-climatic Zone | Characteristics |
| 1 | Central Dry Zone (Zone– IV) of Karnataka | Normal rain fall- 592 mm Max Temp- 38 Min Temp- 19.3  Hot semi- arid Shallow and medium red and black soil |

|  |  |  |
| --- | --- | --- |
| S. No | Agro ecological situation | Characteristics |
| 1 | Central Dry Zone | Total Geographical Area of the district: 7.70 lakh ha.  total cultivable area is 4.05 lakh ha. In this 3.55 lakh ha. (58 %) is under Rainfed condition and 0.5 lakh ha (12 %) is under irrigated condition |

2.3 Soil type/s

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No | Soil type | Characteristics | Area in lakh ha |
| 1 | Red sandy loam with low rainfall | Soil are low in available nitrogen content, medium in phosphorus and potassium. Organic matter content is low and bulk density is moderate. Water holding capacity is less and soil depth is shallow natured. | 1.96 |
| 2 | Red sandy loam with medium rainfall | Available nutrients are medium in nature, micro nutrients like iron, copper, manganese are medium in nature. Molybdenum, boron and zinc are low. These soils are well drained and suitable for water logging sensitive crops, Low CEC. | 1.36 |
| 3 | Medium to deep black soils with medium rain fall | Soil depth is high (90 cm and above). These soil contain swelling and shrinking property because Montmorilinnite clay. These soils are suitable for cotton, maize, jowar, etc. Water holding capacity is more. | 2.09 |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl No.** | **Crop** | **Area (ha)** | **Production (Metric tons)** | **Productivity(kg/ha)** |
| 1 | Maize | 106804 | 204914 | 2091 |
| 2 | Finger Millet | 49882 | 53243 | 1067 |
| 3 | Sorghum | 3749 | 10008 | 886 |
| 4 | Redgram | 23767 | 20463 | 861 |
| 5 | Greengram | 4184 | 1290 | 310 |
| 6 | Chick pea | 40520 | 19993 | 493 |
| 7 | Avare | 2471 | 2009 | 1069 |
| 8 | Groundnut | 129486 | 92970 | 718 |
| 9 | Sunflower | 6275 | 6307 | 385 |
| 10 | Mango | 2545.71 | 25306.16 | 9.94 |
| 11 | Banana | 4616.16 | 102259.39 | 22.15 |
| 12 | Guava | 103.39 | 1626.57 | 15.73 |
| 13 | Pomegranate | 4027.81 | 202089.58 | 50.17 |
| 14 | Watermelon | 636.25 | 8583.20 | 13.49 |
| 15 | Muskmelon | 170.47 | 2861.06 | 16.78 |
| 16 | Tomato | 3311.63 | 69775.03 | 21.07 |
| 17 | onion | 28825.39 | 547772.18 | 19.00 |
| 18 | Coconut | 28547.96 | 15242.91 | 0.53 |
| 19 | Arecanut | 34611.99 | 61158.66 | 1.77 |
| 20 | Chrysanthemum | 742.68 | 8164.66 | 10.99 |
| 21 | Jasmine | 314.58 | 1914.76 | 6.09 |

\* source- **DOH and DoA, Chitradurga**

2.5. Weather data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Month | Rainfall (mm) | Temperature 0 C | | | Relative Humidity (%) |
|  |  | Maximum | Minimum | |  |
| Jan-2021 | 82.8 | 29.3 | | 15.1 | 65 |
| Feb-2021 | 56.8 | 30.6 | | 14.2 | 55 |
| Mar-2021 | 0 | 34.8 | | 16.6 | 45 |
| Apr-2021 | 30 | 36.1 | | 20.7 | 57 |
| May-2021 | 46.6 | 33.2 | | 21.6 | 63 |
| Jun-2021 | 89.4 | 31.4 | | 21.1 | 68 |
| Jul-2021 | 132.6 | 29.6 | | 20.9 | 75 |
| Aug-2021 | 53.8 | 29.7 | | 21.0 | 77 |
| Sep-2021 | 51.8 | 30.2 | | 21.3 | 75 |
| Oct-2021 | 242.6 | 29.8 | | 21.5 | 78 |
| Nov-2021 | 159.2 | 27.7 | | 20.2 | 81 |
| Dec-2021 | 7.4 | 28.6 | | 15.9 | 69 |

\* source- **GKMS Babbur farm**

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Category** | **Population** | **Production** | **Productivity** |
| **Cattle** |  |  |  |
| *Crossbred* | 34806 | 6 LPD | 10 LPD |
| *Indigenous* | 239931 | 1.5 LPD | 2 LPD |
| **Buffalo** | 151895 | 2 LPD | 3 LPD |
| **Sheep** | 924231 |  |  |
| Crossbred | - | Meat | 20 Kg / Animal |
| *Indigenous* | - | Wool | 1 kg / year |
| **Goats** | 226696 | 16 Kg/ Animal | 18 kg/ Animal |
| **Pigs** | 2810 |  |  |
| *Crossbred* | - | 60 Kg/ Animal | 80 kg/ Animal |
| *Indigenous* | - | 40 Kg/ Animal | 60 Kg/ Animal |
| **Rabbits** | 1465 | - | - |
| **poultry** | 161175 | - | - |
| Hens |  | | |
| *Desi* | - | 60-80 eggs / year | 100 eggs / year |
| *Improved* | - | 280 eggs / year | 280 eggs / year |

|  |  |  |  |
| --- | --- | --- | --- |
| **Category** | **Area** | **Production** | **Productivity** |
| Fish | **-** | **-** | **-** |
| *Marine* | **-** | **-** | **-** |
| *Inland* | **-** | **-** | **-** |
| Prawn | **-** | **-** | **-** |
| Scampi | **-** | **-** | **-** |
| Shrimp | **-** | **-** | **-** |

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

* 1. District profile maintained in the KVK has been **Updated** for 2021: Yes / No

**Yes**

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** |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Challakere | Parashurampura | Halagondanahalli | 2 | Groundnut | * Less seed rate(30-35 kg seeds/acre) * Imbalanced nutrition (farmers apply only 1 bag DAP) * Leaf minor, root grub, bud necrosis and leaf spot problem | ICM |
|  | Challakere | Parashurampura | Halagondanahalli | 2 | Finger millet | * Low yield * Neck blast, lodging and susceptibility to drought * Imbalanced nutrition | ICM |
|  | Challakere | Parashurampura | Gopanahalli | 2 | Redgram | * Sterility mosaic and wilt problem * Imbalance nutrition | Crop improvement |
|  | Challakere | Parashurampura | Haligondanahally | 2 | Arecanut | * Imbalanced nutrition, button shedding and nut splitting | INM |
|  | Challakere | Parashurampura | P. Mahadevapura | 1 | Banana | * Low bunch yield due to imbalanced application of major and micro nutrients | INM |
|  | Challakere | Parashurampura | Haligondanahally | 2 | Red gram | * Leaf Webber and Pod borer * Pigeonpea sterility mosaic disease and wilt disease | IPM |
|  | Hosadurga | Hosadurga | Kachapura | 1 | Greengram | * Yellow Mosaic disease * Imbalanced application of fertilizers | IPM |
|  | Chitradurga | Chitradurga | Belagatta | 1 | Bengal gram | * Pod borer and wilt | IPM |
|  | Chitradurga | Chitradurga | Birenahalli and Kadleguddu | 1 | Maize | * Nano fertilizer is a new technology yet to be spread to the farming community * Less fertilizer use efficiency | INM |
|  | Hiriyur | Dharmapura | Khandenahalli Palya | 1 | Mulberry | * Lower leaf yield due to imbalanced use of fertilizers | INM |
|  | Holalkere | Holalkere | Hanumali | 1 | Arecanut husk | * Improper disposal of arecanut husk * High lignin content * Lack of awareness on composting methods | INM |
|  | Chellakere | Talaku | Kodihalli | 1 | Onion | * Use of local variety i.e. SataraGurva * Low Yield * Imbalanced nutrition | ICM |
|  | Chellakere | Parashurampura | Haligondanahalli, | 2 | Mango | * Low yield due to imbalance nutrition * Flower and fruit drop * Incidence of powdery mildew, hopper and fruit flies | ICM |
|  | Hiriyur | Imangala | Mallappanahalli | 1 | Onion | * Low yield due imbalanced nutrition * Uneven bulb size * bulb splitting, rotting | INM |
|  | Hiriyur | Imangala | Palavvanahalli | 1 | Watermelon | * Low yield due to local varieties * Incidence of watermelon bud necrosis virus | Crop improvement |
|  | Chitradurga | Chitradurga | Chippinakere | 1 | Onion | * Low yield * Imbalanced nutrition * Incidence of thrips and purple blotch disease | Crop improvement |
| 1. 6 | Hosadurga | Hosadurga | Hosakunduru | 3 | Onion | * Non availability of quality seeds and impure seeds with bolting and splitting of bulbs problems * Lack of scientific knowledge on seed production and its certification process * High seed cost | Seed production |

2.9 Priority thrust areas

|  |  |
| --- | --- |
| S. No | Thrust area |
| 1 | Value addition, branding and marketing |
| 2 | Water Management |
| 3 | Problematic Soils and their management |
| 4 | Integrated Nutrient management |
| 5 | Integrated Wilt management in Chickpea and Maize |
| 6 | Seed production |
| 7 | Organic farming |
| 8 | Fodder productivity |
| 9 | Integrated management of Army worm in Maize |
| 10 | FPO Linkage |
| 11 | Dry land farming |
| 12 | Balanced use of fertilizers |

**PART III - TECHNICAL ACHIEVEMENTS**

**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** |
| 5 | 5 | 13 | 13 | 12 | 12 | 107 | 107 |
|  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Training (Farmers/farm women)** | | | | **Training (Rural youth)** | | | |
| **3** | | | | **4** | | | |
| **Courses (No.)** | | **Participants (No.)** | | **Programmes (No.)** | | **Participants (No.)** | |
| **Target** | **Achievement** | **Target** | **Achievement** | **Target** | **Achievement** | **Target** | **Achievement** |
| **36** | **91** | **995** | **3064** | 7 | Nil | 210 | Nil |
|  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Training (Extension personnel)** | | | | **Training (sponsored)** | | | |
| **5** | | | | **6** | | | |
| **Courses (No.)** | | **Participants (No.)** | | **Programmes (No.)** | | **Participants (No.)** | |
| **Target** | **Achievement** | **Target** | **Achievement** | **Target** | **Achievement** | **Target** | **Achievement** |
| **8** | **9** | **240** | **632** | Nil | 1 | Nil | 15 |
|  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Training (Vocational)** | | | | **Extension Programmes** | | | |
| **7** | | | | **8** | | | |
| **Courses (No.)** | | **Participants (No.)** | | **Programmes (No.)** | | **Participants (No.)** | |
| **Target** | **Achievement** | **Target** | **Achievement** | **Target** | **Achievement** | **Target** | **Achievement** |
| **3** | Nil | **65** | Nil | 2296 | 6195 | 107850 | 114730 |
|  |  |  |  |  |  |  |  |
| **Seed Production (Q)** | | | | **Planting material (Nos.)** | | | |
| **9** | | | | **10** | | | |
| **Target** | | **Achievement** | | **Target** | | **Achievement** | |
| 30.0 | | 29 | | 22000 | | 6626 | |
|  | |  | | 10,000 slips | | **19,936** slips | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Livestock, poultry strains and fingerlings (No.)** | | | | **Bio-products (Kg)** | | | |
| **11** | | | | **12** | | | |
| **Target** | | **Achievement** | | **Target** | | **Achievement** | |
| 500 | | - | | - | |  | |
|  | |  | |  | |  | |
| **Soil, water, plant and manure analysis**  **(including mobile kits)** | | | | **Mobile agro advisories provided** | | | |
| **13** | | | | **14** | | | |
| **Samples (No.)** | | **Farmers (No.)** | | **Messages including text, voice (No.)** | | **Farmers (No.)** | |
| **Target** | **Achievement** | **Target** | **Achievement** | **Target** | **Achievement** | **Target** | **Achievement** |
| **2400** | **2553** | **2400** | **2367** | - | 24 | - | 5780 |

**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** | INM | Maize | * Imbalance nutrition | Assessment of Nano fertilizer (N & Zn) on growth and yield of maize | **-** | **2** | **-** | **-** | **4** | **-** | **-** | **-** | **1** | **9** |
| **2** | Crop improvement | Redgram | * Sterility mosaic and wilt problem * Imbalance nutrition | Assessment of redgram varieties for higher yield | **-** | **2** | **-** | **-** | **4** | **0.45** | **-** | **-** | **1** | **9** |
| **3** | ICM | **-** | **-** | **-** | ICM in groundnut | **4** | **-** | **1** | **6** | **6** | **-** | **-** | **1** | **20** |
| **4** | ICM | **-** | **-** | **-** | ICM in greengram | **2** | **-** | **-** | **2** | **0.25** | **-** | **-** | **1** | **10** |
| **5** | Crop improvement | **-** | **-** | **-** | Introduction of finger millet var. ML-365 for higher yield | **3** | **-** | **-** | **5** | **0.50** | **-** | **-** | **1** | **20** |
| **6** | Crop improvement | Watermelon | * Low yield due to local varieties. * Incidence of watermelon bud necrosis virus | Assessment of Watermelon hybrids for higher yield | - | 2 | 1 | - | 2 | 3 kg | - | - | - | - |
| **7** | INM | Onion | * Low yield due imbalanced nutrition * Uneven bulb size * Bulb splitting,rotting | Assessment of sulphur applications in *Kharif*  onion production for higher yield | - | 3 | - | 1 | 1 | - | - | - | ***-*** | ***-*** |
| 8 | ICM | Onion | * Use of local variety i.e. SataraGurva * Low Yield * Imbalanced nutrition | - | Integrated crop management in Onion | 4 | **1** | **1** | **3** | **15 kg** | **-** | - | **1** | **5** |
| 9 | Crop improvement | Onion | * Use of local variety i.e. SataraGurva * Low Yield * Imbalanced nutrition | - | Demonstration of onion variety Bhima Shakti for higher yield in Rabi season | 4 | - | 1 | 2 | 17 kg | - | - | 2 | 10 |
| 10 | ICM | Mango | * Low yield due to imbalance nutrition * Flower and fruit drop * Incidence of powdery mildew, hopper and fruit * flies | - | Integrated Crop Management in Mango | 3 | - | 1 | 3 | - | Arka Mango special  200 kg | - | - | - |
| 11 | INM | Arecanut | * Imbalanced nutrition, button shedding and nut splitting | - | INM in Arecanut | 1 | **-** | **-** | 4 | - | - | - | 1 | 20 Kg |
| 12 | INM | Banana | * Low bunch yield due to imbalanced application of major and micro nutrients | - | Demonstration of arka banana special for higher yield | 2 | - | - | 3 | - | - | - | 1 | 20 kg |
| 13 | INM | Mulberry | * Lower leaf yield due to imbalanced use of fertilizers | - | Nutrient management in Mulberry | 1 | - | - | 3 | - | - | - | 1 | 20 kg |
| 14 | INM | Arecanut husk | * Improper disposal of arecanut husk * High lignin content * Lack of awareness on composting methods | Assessment of different compost cultures to decompose arecanut husk | - | 1 | - | - | 2 | - | - | - | 3 | 378 kg |
| 15 | IPM | Redgram | * Low yield due to pod borer and pod fly * Pigeon pea sterility mosaic and wilt disease | **-** | Integrated management of pod borer and sterility mosaic in Redgram | **3** | - | 1 | 2 | 60 kg | - | - | 2 | 20 kg |
| 16 | IPM | Bengal gram | * Low yield due to pod borer and wilt disease | **-** | Integrated management of pod borer and wilt in Bengalgram | 1 | - | - | 2 | 200 kg | - | - | 2 | 20 kg |
| 17 | IPM | Maize | * Imbalance nutrition, Fall army worm | **-** | Integrated management of Fall army worm on Maize | 1 | - | - | 1 | - | - | - | 2 | 20 kg |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No** | **Title of Technology** | **Source of technology** | **Crop/enterprise** | **No.of programmes conducted** | | | |
| **OFT** | **FLD** | **Training** | **Others (Specify)** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** |
| 1 | Assessment of Nano fertilizer (N & Zn) on growth and yield of maize | KSNUAHS(S), IFFCO-NBRC, Gujarath | Maize | OFT | - | 2 | 5(Method demonstration, Field day & Field visit) |
| 2 | Assessment of redgram varieties for higher yield | UAS (B), UAS (B), UAS (R) | Redgram | OFT | - | 2 | 6(Method demonstration & Field visit) |
| 3 | ICM in groundnut | KSNUAHS(S) | Groundnut | - | FLD | 4 | 4(Method demonstration , Field day & Field visit) |
| 4 | ICM in greengram | KSNUAHS(S) | Greengram | - | FLD | 2 | 3(Method demonstration, Field day & Field visit) |
| 5 | Demonstration of Finger Millet variety ML-365 for higher yield | UAS(B) | Finger millet | - | FLD | 3 | 3(Method demonstration, Field day & Field visit) |
| 6 | Assessment of Watermelon hybrids for higher yield | ICAR-IIHR-Bengaluru | Watermelon | OFT | - | 3 | 2(Method demonstration & Field visit) |
| 7 | Assessment of sulphur applications in *Kharif*  onion production for higher yield | ICAR-DOGR Pune  NHRDF-Nasik  KSNUAHS, Shivamogga | Onion | OFT | - | 3 | 2(Method demonstration & Field visit) |
| 8 | Integrated crop management in Onion | KSNUAHS, Shivamogga | Onion | - | FLD | 6 | 3(Method demonstration & Field visit) |
| 9 | Demonstration of onion variety Bhima Shakti for higher yield in Rabi season | ICAR-DOGR Pune | Onion | - | FLD | 7 | 2(Method demonstration & Field visit) |
| 10 | Integrated Crop Management in Mango | ICAR-IIHR, Bengaluru | Mango | - | FLD | 4 | 3(Method demonstration & Field visit) |
| 11 | INM in Arecanut | KSNUAHS, Shivamogga | Arecanut | - | FLD | 1 | Field day-1  Field visit - 3 |
| 12 | Demonstration of Arka banana special for higher yield | KSNUAHS, Shivamogga and IIHR, Bangalore | Banana | - | FLD | 2 | Field visit – 1  Method demonstration - 1 |
| 13 | Nutrient management in Mulberry | UAS, Bangalore,  Central Sericultural Research and Training Institute (CSRTI), Mysuru,  Central silk board, Ministry of textiles , Mysuru and  M/s Microbi Agrotech Pvt. Ltd., Bengaluru | Mulberry | - | FLD | 1 | Field visits - 3 |
| 14 | Assessment of different compost cultures to decompose arecanut husk 2021-22 (Implemented during the month of January, 2022) | UAS, Dharwad, UAHS, Shivamogga  and  Kadamba traders and IIHR, Benagaluru | Arecanut husk | OFT | - | - | - |
| 15 | Integrated management of pod borer and sterility mosaic in Redgram | KSNUAHS, Shivamogga | Redgram | - | FLD | 2 | Field visits - 4  Method demonstrations - 2  Field day - 1 |
| **16** | Integrated management of pod borer and wilt in Bengalgram | KSNUAHS, Shivamogga | Bengalgram | - | FLD | 2 | Field visits - 3  Method demonstrations - 3  Field day - 1 |
| **17** | Integrated management of Fall army worm on Maize | KSNUAHS, Shivamogga | Maize | - | FLD | 1 | Field visits - 3  Method demonstrations - 1  Field day - 1 |

**3.B2 contd..**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No. of farmers covered** | | | | | | | | | | | | | | | |
| **OFT** | | | | **FLD** | | | | **Training** | | | | **Others (Specify)** | | | |
| **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 |
| 1 | 0 | 2 | 0 | - | - | - | - | 38 | 6 | 19 | 5 | 14 | 4 | 12 | 8 |
| 3 | 0 | 0 | 0 | - | - | - | - | 12 | 6 | 12 | 3 | 16 | 2 | 14 | 6 |
| - | - | - | - | 6 | - | 4 | - | 46 | 6 | 10 | 4 | 26 | 16 | 4 | 16 |
| - | - | - | - | 4 | - | 1 | - | 33 | 22 | 19 | 13 | 26 | 11 | 13 | 2 |
| - | - | - | - | 7 | - | 3 | - | 23 | 4 | 12 | 11 | 16 | 6 | 4 | 5 |
| 2 | - | 1 | - | - | - | - | - | 45 | - | 4 | - | 21 | 5 | 3 | - |
| 2 | - | - | - | - | - | - | - | 65 | 25 | 32 | 4 | 25 | 2 | 3 | - |
| - | - | - | - | 5 | - | - | - | 107 | 20 | 37 | 25 | 45 | 5 | 15 | 7 |
| - | - | - | - | 4 | - |  | - | 95 | 10 | 49 | 25 | 62 | 25 | 37 | 5 |
| - | - | - | - | 10 | - | 2 | - | 65 | 18 | 22 | 15 | 32 | 14 | 8 | 3 |
| - | - | - | - | 6 | - | 4 | - | 15 | 0 | 4 | 5 | - | - | 5 | - |
| - | - | - | - | 9 | 1 | - | - | 11 | 9 | 8 | 7 | 5 | 1 | 1 | - |
| - | - | - | - | 9 | - | - | 1 | 17 | 1 | 2 | 1 | 3 | 4 | - | - |
| 2 | - | 1 | - | 7 | - | 3 | - | 6 | 12 | - | 6 | 19 | - | 3 | - |
| - | - | - | - | 2 | 2 | 3 | 3 | 26 | 12 | 16 | 4 | 9 | 3 | 4 | 1 |
| - | - | - | - | 7 | 1 | 2 | 0 | 12 | 3 | 9 | 2 | 6 | 5 | 7 | 1 |
| - | - | - | - | 3 | 0 | 7 | 0 | 6 | 4 | 4 | 3 | 3 | 4 | 6 | 5 |

**PART IV - On Farm Trial**

**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 | 1 | - | - | - | 1 | - | - | - | - | 2 |
| Varietal Evaluation | - | - | 1 | - | 1 |  |  |  |  | 2 |
| 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 Areca husk compost | - | - | - | - | - | - | - | 1 | - | 1 |
| **Total** | **1** | **-** | **1** | **-** | **2** |  | **-** | **1** | **-** | **-** |

**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 | Arecanut | Assessment of different compost cultures to decompose arecanut husk | 03 | 3 | - |
| Onion | Assessment of sulphur applications in *Kharif*  onion production for higher yield | 02 | 02 | 0.8 |
| Maize | Assessment of Nano fertilizer (N & Zn) on growth and yield of maize | 03 | 03 | 0.2 |
| Varietal Evaluation | watermelon | Assessment of Watermelon hybrids for higher yield | 03 | 03 | 0.8 |
| Redgram | Assessment of Redgram varieties for sterility mosaic virus | 03 | 03 | 0.2 |
| 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** | 5 |  | 14 | 17 | 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 | - | - | - | - | - |
| - | - | - | - | - |
| Post Harvest Technology/Value addition | - | - | - | - | - |
| - | - | - | - | - |
| Drudgery Reduction | - | - | - | - | - |
| - | - | - | - | - |
| Storage Technique | - | - | - | - | - |
| - | - | - | - | - |
| Mushroom cultivation | - | - | - | - | - |
| - | - | - | - | - |
| Cropping Systems | - | - | - | - | - |
| Farm Mechanization | - | - | - | - | - |
| Others, Pl specify | - | - | - | - | - |
| **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 | - | - | - | - |
| Processing and Value addition | - | - | - | - |
| Production and management | - | - | - | - |
| Feed and fodder management | - | - | - | - |
| Small scale income generating enterprises | - | - | - | - |
| Others, pl. specify | - | - | - | - |
| **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 | - | - | - | - |
| Processing and Value addition | - | - | - | - |
| Production and management | - | - | - | - |
| Feed and fodder management | - | - | - | - |
| Small scale income generating enterprises | - | - | - | - |
| Others, pl. specify | - | - | - | - |
| **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, pl. specify | - | - | - | - |

4.B.6.T**echnologies 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, pl. specify | - | - | - | - |

**4.C1. Results of Technologies Assessed**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop/ enterprise | Farming situation | Problem definition | Title of OFT | No. of  trials | Technology Assessed | Source of technology | Yield | Unit of yield | Observations other than yield | 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 |
| Maize | Rainfed | Nano fertilizer is a new technology yet to be spread to the farming community  Less fertilizer use efficiency | Assessment of Nano fertilizer (N & Zn) on growth and yield of maize | 03 | T1 :Basal dose of Application -fertilizers 125 kg DAP and 62.5 kg MOP :Top dressing with urea- 125 kg urea per ha at 100 DAS | Farmer’s Practice | 54.5 | q/ha | 26.9 | 87200 | 54030 | 2.63 |
| T2 : 50:50:25 kg N, P2O5 ,K2O per ha (50 % N . 100 % P2O5  and 100 % K20 as a basal + 50 % N (4 ml/l) and Zn (2ml/l of water) through Nano fertilizer spray two times at 30 DAS and 50 DAS | UAHS (S) | 61.9 | q/ha | 28.6 | 99093 | 64500 | 2.94 |
| T2 : 100:50:25 kg N, P2O5 ,K2O per ha (50 % N . 100 % P2O5  and 100 % K20 as a basal and 25 % N at 30 DAS and 25% N at 50 DAS + Zinc Sulphate 4 kg/acre as basal | IFFCO-NBRC, Gujarath | 60.5 | q/ha | 27.8 | 96747 | 63273 | 2.89 |
|  |  |  |  |  |  |  |  |  | **% sterility mosaic incidence** |  |  |  |
| Redgram | Rainfed | Sterility mosaic and wilt problem | Assessment of Redgram varieties for sterility mosaic virus | 03 | T1:BRG-2 | UAS (B) | 7.3 | q/ha | 3.27 | 40150 | 17443 | 2.30 |
| T3:BRG -5 | UAS (B) | 9.1 | q/ha | 1.97 | 49867 | 18097 | 2.75 |
| T2:BSMR-736 | UAS (R) | 9.8 | q/ha | 0.0 | 53717 | 18487 | 2.90 |
| Watermelon  (2020-21) | Irrigated | * Low yield due to local varieties * Incidence of watermelon bud necrosis virus | Assessment of Watermelon hybrids for higher yield | 3 | T.O.1 (Farmers practice) NS295 | Farmers practice | 35.5 | t/ha | WBNV (%)  22.2 | 3,19,500 | 1,79,500 | 2.28 |
| T.O.2 Arka Akash | IIHR, Bangalore | 48.7 | t/ha | WBNV (%)  14.5 | 5,35,700 | 3,95,700 | 3.82 |
| T.O.3 ArkaShama | IIHR, Bangalore | 45.5 | t/ha | WBNV (%)  17.5 | 5,68,750 | 4,28,750 | 4.06 |
| T.O.4 Arka Muthu | IIHR, Bangalore | 39.0 | t/ha | WBNV (%)  19.0 | 3,90,000 | 2,50,000 | 2.78 |
| Onion (2021-22) | Irrigated | * Low yield due imbalanced nutrition * Uneven bulb size * bulb splitting, rotting | Assessment of sulphur applications in Kharif onion production for higher yield | 2 | T.O.1 (Farmers practice) | Urea @ 125 kg , DAP@ 125 kg, 10:26:26 @125 kg | 229.5 | t/ha | 63.5 g (Avg. bulb weight) | 3,09,000 | 2,14,000 | 3.2 |
| T.O.2 | 125:75:125kg NPK/ha + 20 kg Sulphur /ha , FYM @ 15 kg/ha (Full of PKS and 1/3 of N need to be applied at the time of transplanting and remaining 2/3 of N in two equal splits at 30 and 45 DAT.), Zinc sulphate @ 10 Kg/ha, Borax@10 kg/ha, 19:19:19 @ 5g/ liter at 30,45 and 60 DAT | 283.5 | t/ha | 74.8 g (Avg. bulb weight) | 3,82,200 | 2,84,200 | 3.8 |
| T.O.3 | 125:75:125kg NPK/ha + 30 kg Sulphur /ha ,FYM @ 20 t/ha + 5 kg/ha of Azatobactor + 5 kg/ha of PSB, 19:19:19 @ 10g/ liter at 15,30 and 45DAT | 310.0 | t/ha | 80.2g  (Avg. bulb weight) | 4,19,250 | 3,20,750 | 4.15 |
| Arecanut husk (2020-21) | - | * Improper disposal of arecanut husk * High lignin content * Lack of awareness on composting methods | Evaluation of performance of different compost cultures to decompose arecanut husk | 3 | T.O.1 -Composting arecanut husk by using compost culture @ 2 kg/ton | UAS, Dharwad | - | - | * Days taken for decomposition – 110   C:N ratio – 30:1 | - | - | - |
| T.O.2- Composting the arecanut husk by using compost culture @ 100 ml/ton | NCOF, New Delhi | - | - | * Days taken for decomposition – 150   C:N ratio – 25:1 | - | - | - |
| T.O.3- Composting the arecanut husk by using compost culture @ 4 kg/ton | KSNUAHS, Shivamogga | - | - | * Days taken for decomposition – 180   C:N ratio – 20:1 | - | - | - |
| Arecanut husk (2021-22) | - | * Improper disposal of arecanut husk * High lignin content * Lack of awareness on composting methods | Assessment of different compost cultures to decompose arecanut husk | 3 | T.O.1 -Composting arecanut husk by using compost culture @ 2 kg/tonne | UAS, Dharwad | In progress (22 days completed) | | | | | |
| T.O.2- Composting the arecanut husk by using kadamba arka decomposer @ 5 kg/tonne | Kadamba traders and ICAR-IIHR, Bengaluru |
| T.O.3- Composting the arecanut husk by using compost culture @ 4 kg/tonne | KSNUAHS, Shivamogga |

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 Nano fertilizer (N & Zn) on growth and yield of maize | Nano fertilizer useful for foliar spray under drought situation | Nil |
| Assessment of redgram varieties for higher yield | BSMR-736 variety resistant to sterility mosaic | Nil |
| Assessment of Watermelon hybrids for higher yield | Arka Shama has big size fruits with highest average fruit weight and less incidence of WBNV among tested varieties | Arka Shama got highest B:C ratios and the availability of seeds at farmers level is quite difficult |
| Assessment of sulphur applications in *Kharif*  onion production for higher yield | Nil | Nil |
| Evaluation of performance of different compost cultures to decompose arecanut husk (2020-21) | The technology of UAHS, Shivamogga to took 180 days to decompose arecanut husk with C:N ratio 20:1 compared to other two technologies adopted. | Nil |

4.C3.1 Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)

1. Title of Technology Assessed : Assessment of redgram varieties for higher yield

2. Performance of the Technology on specific indicators: BSMR-736 redgram variety recorded higher yield

3. Specific Feedback from farmers : Higher yield and BSMR-736 variety resistant to sterility mosaic

4. Specific Feedback from Extension personnel and other stakeholders : BSMR-736 variety resistant to sterility mosaic

5. Feedback to Research System based on results and feedback received : Short duration variety in redgram

6. Feedback on usefulness and constraints of technology: Nil

4.C3.2 Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)

1. Title of Technology Assessed: Assessment of Watermelon hybrids for higher yield

2. Performance of the Technology on specific indicators: Arka Shama has big size fruits with highest average fruit weight and less incidence of WBNV among tested varieties

3.Specific Feedback from farmers: Arka Sham agaves high yield good market deemand

4.Specific Feedback from Extension personnel and other stakeholders:- Nil

5. Feedback to Research System based on results and feedback received-Nil

6. Feedback on usefulness and constraints of technology: Nil

4.C3.3 Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)

1. Title of Technology Assessed: Assessment of sulphur applications in *Kharif*  onion production for higher yield

2. Performance of the Technology on specific indicators: sulphur application at 30 Kg/ha gives highest yield

3.Specific Feedback from farmers: Sulphur application helps for getting highest yield

4.Specific Feedback from Extension personnel and other stakeholders:- Nil

5. Feedback to Research System based on results and feedback received-Nil

6. Feedback on usefulness and constraints of technology: Nil

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

1. Title of Technology Assessed - Evaluation of performance of different compost cultures to decompose arecanut husk (2020-21)

2. Performance of the Technology on specific indicators – The technology of KSNUAHS, Shivamogga took 180 days to decompose arecanut husk with C:N ratio 20:1 compared to other two technologies adopted.

3. Specific Feedback from farmers – Instead of burning or disposal of areca husk on roads, they can recycle it and can be used as organic manure for plantation or other crops. The method can be adopted by using locally available materials and easy to adopt.

4. Specific Feedback from Extension personnel and other stakeholders – Helpful for farmers to recycle the areca husk waste.

5. Feedback to Research System based on results and feedback received – Cost effective, less duration for decomposition and easily for adoption.

6. Feedback on usefulness and constraints of technology – After decomposition Nutrient content of areca husk compost is higher.

**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: Nil

1. Title of Technology Refined

2. Performance of the Technology on specific indicators

3. Specific Feedback from farmers

4. Specific Feedback from Extension personnel and other stakeholders

5. Feedback to Research System based on results/feedback received

6. Feedback on usefulness and constraints of technology

**PART V - FRONTLINE DEMONSTRATIONS**

**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 | Rainfed | Kharif | Groundnut | K-6 | - | ICM | 1. Demonstration of seed cum fertilizer drill 2. Seed treated with *Rhizobium* & PSB , Biofungicide- Trichoderma @4 g/kg  3. Use of micronutrients (10 kg ZnSO4 /ha) 4. RDF-25:50:25 kg NPK+ 7.5 t FYM/ ha + 500 kg gypsum/ha 5. 19:19:19 fertilizer (5g/l ) sprayed at 35 DAS 6. Foliar spray of 0.1% borax at flower initiation  7.Seeds treated with Chlorpyriphos 20 EC @ 10 ml per kg seeds  8. Spray with Imidachloprid 17.8 EC @ 0.5 ml/l water  9. Spraying of Hexaconozole @ ml/l of water  10. Growing of high stature crops as barriers in all along the crop | 04 | 04 | 02 | 08 | 04 | 06 |
| 2.1 | Pulses | Rainfed | Kharif | Greengram | KKM-3 |  | ICM | * Demonstration of variety- KKM-3 * Seed treatment with *Rhizobium*, PSB @ 4 g/kg seeds * *Trichoderma* @ 4 g/kg seeds * FYM : 7.5 t/ha * RDF : 12.5: 25:25 NPK kg, 10 kg ZnSO4 /ha * Foliar spray 19:19:19 @ 35 & 45 DAS * Spray with Imidachloprid 17.8 EC @ 0.5 ml/lit water * Spraying of Carbendazim @ 1g/lit of water * Spraying of Quinolphos 25 EC @ 2 ml/lit of water | 02 | 02 | 01 | 04 | 02 | 03 |
| 2.2 | Pulses | Rainfed | Kharif 2020-21 | Redgram | BRG-5 | -- | IPM | Introduction of new variety BRG-5, FYM –7.5 t/ha, N:P:K 25:50:25, Sulphur- 20 kg, ZnSO4 –15 kg/ha, Pulse Magic 10g/l foliar spray, *Trichoderma* – 5 g/kg seeds, *Rhizobium* – 500 g/ha, PSB –500g/ha.  Pheromone traps – 10 Nos. / ha , HaNPV – 500 LE/ha, NSKE – 4%, Use of Bird perches, Dicofol 18.5 EC – 2.5 ml/l, Emamectin benzoate 5 SG – 0.3 g/l | 04 | 04 | 06 | 04 | 03 | 07 |
| 2.3 | Pulses | Rainfed | Rabi  2020-21 | Bengalgram | JAKI-9218 | -- | IPM | Variety: JAKI-9218, FYM – 7.5 t /ha, N:P:K 12.5:25:25, Foliar spray 19:19:19 – 2g/l, Chickpea special 10g/l, *Trichoderma* – 5 g/kg seeds, *Rhizobium* – 500 g/ha, PSB – 500 g/ha.  Pheromone traps – 5 No.s/ha HaNPV – 250 LE/ha., Bengal gram : Coriander(Arka Isha)-6:1  Use of Bird perches, Emamectin benzoate 5SG – 0.3g/l | 04 | 04 | 02 | 08 | 04 | 06 |
| 3 | Cereals | Rainfed | Kharif 2021-22 | Maize | -- | Private hybrid | IPM | Spacing of 60x30cm for maize  Seed treatment with *Azospirillium*, *Trichoderma* and PSB @ 500 g/ha  FYM : 7.5 t/ha, RDF : 100: 50:25 kg N, P2O5 ,K2O (50 % N . 100 % P2O5  and 100 % K20 as a basal and 25 % N at 30 DAS and 25% N at 50 DAS) + Zinc Sulphate 10 kg/ha as basal  Installation of pheromone traps @ 12 nos. per ha for Fall armyworm (*Spodoptera frugiperda*) 8 days after sowing  Spraying of Chlorantraniliprole 18.5 SC @ 0.4 ml/l of water  Spraying of Mancozeb75WP @ 2.5g/l of water for leaf spot | 04 | 04 | 07 | 03 | 08 | 02 |
| 4 | Millets | Rainfed | *Kharif* | Finger millet | ML-365 |  | ICM | * Demonstration of variety ML-365 * Seed treatment with Biofertilizers- *Azospirillum* and PSB,@ 4 g/kg  Biofungicide -*Trichoderma* @ 4 g/kg * FYM: 7.5 t/ha * RDF : 50:37.5:40 kg NPK /ha, * Micronutrients Micronutrients (ZnSO4 12.5 kg/ha +Borax @ 10 kg/ha) * Foliar spray 19:19:19 @ 40 DAS * Spray with Imidachloprid 17.8 EC @ 0.5 ml/lit water * Spraying of Carbendazim @ 1g/lit of water | 04 | 04 | 03 | 05 | 04 | 06 |
| 5.1 | Vegetables | Irrigated | *Kharif* | Onion | Bhima Super | - | ICM | * Demonstration of Bhima Super Variety * Soil test based (RDF=125:75:125kg NPK/ha) application and * spraying of Arka Vegetable Special @ 2g /l * Seed treatment with *Trichoderma* @ 4 g /kg * Use of yellow sticky traps for management of thrips@10 No. / ha * Purple blotch Mancozeb 75 WP @ 0.2 % and Acetamaprid 20 %   SP for Thrips managements | 2 | 2 | - | 5 | - | Others |
| 5.2 | Vegetables | Irrigated | Rabi | Onion | Bhima Shakti | - | Demonstration | * Demonstration of Bhima Shakti Variety   Soil test based (RDF=125:75:125kg NPK/ha) application and spraying of Arka Vegetable Special @ 2g /l   * Seed treatment with Trichoderma @ 4 g /kg * Use of yellow sticky traps for management of thrips@10 No. / ha * Purple blotch Mancozeb 75 WP @ 0.2 % and Acetamaprid 20 %   SP for Thrips managements | 2 | 1.8 | 0 | 4 | - | others |
| 6 | Flowers | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 | Ornamental | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | Fruit | Rain fed | Rabi to Summer | Mango | Alphanso | - | ICM | * Application of RDF (730:180:680 g NPK/Plant) * Foliar application of Arka Mango Special @ 5 g/l (First Spray: Jun-Jul, Second Spray: Oct-Nov, Third Spray: Dec-Jan, Fourth Spray: Feb-Mar ) * Spraying of Hexaconazole 5 EC @ 1 ml/l for powdery mildew and Imidachloprid 17.8 SL @ 0.5 ml/l for hoppers | 5 | 5 | 2 | 10 | - | others |
| 9 | Spices and condiments | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | Commercial | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 | Medicinal and aromatic | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | Fodder | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 13.1 | Plantation | Irrigated | *Kharif* | Arecanut | Bheemasamudra local | - | INM | INM in Arecanut | 10 | 10 | - | 10 | 2 | 8 |
| 13.2 |  | Irrigated | *Kharif* | Banana | Putta bale | - | INM | Demonstration of Arka banana special for higher yield | 10 | 10 | 1 | 9 | 4 | 6 |
| 14 | Fibre | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 15 | Dairy | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 16 | Poultry | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 17 | Rabbitry | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18 | Piggery | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 | Sheep and goat | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | Duckery | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 21 | Common carps | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 22 | Mussels | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 23 | Ornamental fishes | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 24 | Oyster mushroom | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 25 | Button mushroom | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 26 | Vermicompost | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 27 | Sericulture | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 28 | Apiculture | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 29 | Implements | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | Others (specify) | Irrigated | *Kharif* | Mulberry | V-1 | - | NM | Nutrient management in Mulberry | 10 | 10 | 3 | 7 | 2 | 8 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 |  |
| 1 | Oilseeds | Rainfed | *Kharif* 2021 | Groundnut | K-6 | - | ICM | * Demonstration of seed cum fertilizer drill * Seed treated with Rhizobium & PSB , Biofungicide- Trichoderma @4 g/kg * Use of micronutrients (10 kg ZnSo4 /ha * RDF-25:50:25 kg NPK+ 7.5 t FYM/ ha + 500 kg gypsum/ha * 19:19:19 fertilizer (5g/l ) sprayed at 35 DAS * Foliar spray of 0.1% borax at flower initiation * Seeds treated with Chlorpyriphos 20 EC @ 10 ml per kg seeds * Spray with Imidachloprid 17.8 EC @ 0.5 ml/l water * Spraying of Hexaconozole @ ml/l of water * Growing of high stature crops as barriers in all along the crop | *Kharif*  2021 | M | M | H | vegetables |
| 2.1 | Pulses | Rainfed | *Kharif* 2021 | Greengram | KKM-3 | - | ICM | * Demonstration of variety- KKM-3 * Seed treatment with *Rhizobium* , PSB @ 4 g/kg seeds * *Trichoderma* @ 4 g/kg seeds * FYM : 7.5 t/ha * RDF : 12.5: 25:25 NPK kg, 10 kg ZnSO4 /ha * Foliar spray 19:19:19 @ 35 & 45 DAS * Spray with Imidachloprid 17.8 EC @ 0.5 ml/lit water * Spraying of Carbendazim @ 1g/lit of water * Spraying of Quinolphos 25 EC @ 2 ml/lit of water * Demonstration of variety- KKM-3 * Seed treatment with Rhizobium, PSB @ 4 g/kg seeds * Trichoderma @ 4 g/kg seeds * FYM : 7.5 t/ha * RDF : 12.5: 25:25 NPK kg, 10 kg ZnSO4 /ha * Foliar spray 19:19:19 @ 35 & 45 DAS * Spray with Imidachloprid 17.8 EC @ 0.5 ml/lit water * Spraying of Carbendazim @ 1g/lit of water * Spraying of Quinolphos 25 EC @ 2 ml/lit of water | *Kharif* 2021 | M | M | H | Finger millet |
| 2.2 | Pulses | Rainfed | *Kharif*  2020-21 | Redgram | BRG-5 | - | IPM | * Introduction of new variety   BRG-5   * FYM –7.5 t/ha, N:P:K 25:50:25, Sulphur- 20 kg, ZnSO4  –15 kg/ha, * Pulse Magic 10g/l foliar spray * *Trichoderma* – 5 g/kg seeds, *Rhizobium* – 500 g/ha, PSB –500g/ha. * Pheromone traps – 10 Nos. / ha , * HaNPV – 500 LE/ha, * NSKE – 4%, Use of Bird perches, * Dicofol 18.5 EC – 2.5 ml/l, * Emamectin benzoate 5 SG – 0.3 g/l | *Kharif*  2020-21 | L | M | M | Groundnut |
| 2.3 | Pulses | Rainfed | *Rabi*2020-21 | Bengalgram | JAKI-9218 | - | IPM | * Variety: JAKI-9218 * FYM – 7.5 t /ha, * N:P:K 12.5:25:25, * Foliar spray 19:19:19 – 2g/l, * Chickpea special 10g/l, * *Trichoderma* – 5 g/kg seeds, *Rhizobium* – 500 g/ha, PSB – 500 g/ha. * Pheromone traps – 5 No.s/ha HaNPV – 250 LE/ha., Bengal gram : Coriander(Arka Isha)-6:1 * Use of Bird perches, Emamectin benzoate 5SG – 0.3g/l | *Rabi* 2020-21 | L | M | M | Maize |
| 3 | Cereals |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.1 | Cereals | Raifed | *Kharif* 2021-22 | Maize | -- | Private hybrid | IPM | * Spacing of 60x30cm for maize * Seed treatment with *Azospirillium* , *Trichoderma* and PSB @ 500 g/ha * FYM : 7.5 t/ha, RDF : 100: 50:25 kg N, P2O5, K2O (50 % N . 100 % P2O5 and 100 % K2O as a basal and 25 % N at 30 DAS and 25% N at 50 DAS) + Zinc Sulphate 10 kg/ha as basal * Installation of pheromone traps @ 12 nos. per ha for Fall armyworm *(Spodoptera frugiperda*) 8 days after sowing * Spraying of Chlorantraniliprole 18.5 SC @ 0.4 ml/l of water * Spraying of Mancozeb75WP @ 2.5g/l of water for leaf spot | *Kharif*  2021-22 | L | M | H | Bengalgram |
| 4 | Millets | Rainfed | *Kharif*  2021 | Finger millet | ML-365 | - | ICM | * Demonstration of variety ML-365 * Seed treatment with Biofertilizers- *Azospirillum* and PSB,@ 4 g/kg Biofungicide -*Trichoderma* @ 4 g/kg * FYM: 7.5 t/ha * RDF : 50:37.5:40 kg NPK /ha, * Micronutrients (ZnSO4 12.5 kg/ha +Borax @ 10 kg/ha) * Foliar spray 19:19:19 @ 40 DAS * Spray with Imidachloprid 17.8 EC @ 0.5 ml/lit water * Spraying of Carbendazim @ 1g/lit of water | *Kharif*  2021 | L | M | M | Greengram |
| 5.1 | Vegetables | Irrigated | *Kharif* | Onion | Bhima Super | - | ICM | * Demonstration of Bhima Super Variety * Soil test based (RDF=125:75:125kg NPK/ha) application and * spraying of Arka Vegetable Special @ 2g /l * Seed treatment with *Trichoderma* @ 4 g /kg * Use of yellow sticky traps for management of thrips@10 No. / ha * Purple blotch Mancozeb 75 WP @ 0.2 % and Acetamaprid 20 %   SP for Thrips managements | *Kharif* | L | M | H | Finger millet |
| 5.2 | Vegetables | Irrigated | *Kharif* | Onion | Bhima Shakti | - | Crop improvement | * Demonstration of Bhima Shakti Variety   Soil test based (RDF=125:75:125kg NPK/ha) application and spraying of Arka Vegetable Special @ 2g /l   * Seed treatment with Trichoderma @ 4 g /kg * Use of yellow sticky traps for management of thrips@10 No. / ha * Purple blotch Mancozeb 75 WP @ 0.2 % and Acetamaprid 20 %   SP for Thrips managements | *Rabi* | L | M | H | Ground nut |
| 6 | Flowers | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 | Ornamental | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | Fruit | Rain fed | *Rabi* to *Summer* | Mango | Alphanso | - | ICM | * Application of RDF (730:180:680 g NPK/Plant) * Foliar application of Arka Mango Special @ 5 g/l (First Spray: Jun-Jul, Second Spray: Oct-Nov, Third Spray: Dec-Jan, Fourth Spray: Feb-Mar ) * Spraying of Hexaconazole 5 EC @ 1 ml/l for powdery mildew and Imidachloprid 17.8 SL @ 0.5 ml/l for hoppers | *Rabi-Summer* | L | M | H | - |
| 9 | Spices and condiments | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | Commercial | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 | Medicinal and aromatic | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | Fodder | - | - | - | - | - | - | - | - | - | - | - | - |
| 13 | Plantation | Irrigated | *Kharif*  2021-22 | Arecanut | Bheemasamudra local | - | INM | INM in Arecanut | *Kharif*  2021-22 | M | M | H | Arecanut |
| 14 |  | Irrigated | *Kharif*  2021-22 | Banana | Putta bale | - | INM | Demonstration of Arka banana special for higher yield | *Kharif*  2021-22 | L | M | H | Groundnut, Arecanut |
| 15 | Fiber | - | - | - | - | - | - | - | - | - | - | - | - |
| 16 | Others | Irrigated | *Kharif*  2021-22 | Mulberry | V-1 | - | NM | Nutrient management in Mulberry | *Kharif*  2021-22 | L | M | H | Mulberry |

**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 demonstration (Rs./ha)** | | |
|  |  |  |  |  |  |  | **Demo** | | | **Check** |  | **Gross**  **Return** | **Net Return** | **BCR** | **Gross**  **Return** | **Net Return** | **BCR** |
| **Oilseeds** |  |  |  |  |  |  | **H** | **L** | **A** |  |  |  |  |  |  |  |  |
| Groundnut | ICM in groundnut | K-6 |  | Rainfed | 10 | 4 | 13.6 | 12.4 | 13.2 | 10.4 | 26.9 | 86060 | 50889 | 2.45 | 67340 | 35356 | 2.11 |
| **Pulses** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Greengram | ICM in greengram | KKM-3 |  | Rainfed | 5 | 2 | 8.2 | 7.7 | 7.9 | 5.9 | 33.9 | 51480 | 33480 | 2.86 | 38480 | 22668 | 2.44 |
| Redgram  (2020-21) | Integrated management of pod borer and sterility mosaic in Redgram | BRG-5 | - | Rainfed | 5 | 2 | 10 | 6.25 | 7.62 | 6.12 | 25.71 | 35075 | 13135 | 1.58 | 28175 | 8115 | 1.39 |
| Bengalgram (2020-21) | Integrated management of pod borer and wilt in Bengalgram | JAKI-9218 | - | Rainfed | 5 | 2 | 16.25 | 6.25 | 9.75 | 7.87 | 21.59 | 39000 | 13080 | 1.48 | 31500 | 7140 | 1.27 |
| **Cereals** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Maize | Integrated management of Fall army worm on Maize | - | Private hybrid | Rainfed | 10 | 4 | 61.5 | 56.25 | 58.6 | 51.20 | 10.16 | 93700 | 60900 | 2.85 | 81920 | 53700 | 2.59 |
| Millets |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Finger millet** | Introduction of finger millet var. ML-365 for higher yield | ML-365 |  | Rainfed | 10 | 4 | 19.2 | 17.5 | 18.4 | 13.2 | 39.4 | 46075 | 27591 | 2.50 | 33075 | 16025 | 1.94 |
| **Vegetables** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Onion | Integrated crop management in Onion | Bhima Super | - | Irrigated | 5 | 2 | 300.0 | 285.0 | 290.0 | 213.0 | 26.5 | 4,74,666 | 3,64,500 | 4.30 | 3,41,333 | 2,48,666 | 3.68 |
| Onion | Demonstration of Bhima Shakti onion variety for higher yield in *Rabi* season  (2020-21) | Bhima Shakti | - | Irrigated | 4 | 1.6 | 295.0 | 280.0 | 286.17 | 206.7 | 38.41 | 3,34,066 | 2,51,566 | 4.04 | 2,06,666 | 1,30,166 | 2.70 |
| Flowers | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ornamental | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Fruit** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mango | Integrated crop management in Mango (2020-21) | Alphanso | - | Rainfed | 12 | 5 | 81.0 | 73.0 | 77.8 | 61.5 | 25.1 | 2,17,848 | 1,62,848 | 3.96 | 1,53,750 | 1,08,750 | 3.41 |
| Spices and condiments | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Commercial | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Fibre crops like cotton | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Medicinal and aromatic | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Fodder | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Plantation** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Arecanut | INM in Arecanut | Bheemasamudra local | - | *Kharif* | 10 | 4 | 26.25 | 18.75 | 21.13 | 16.75 | 26.15 | 758625 | 592750 | 4.57 | 586250 | 392813 | 3.04 |
| Banana | INM in Banana(2020-21) | Putta bale | - | *Kharif* | 10 | 4 | 16 | 14 | 15.15 | 11.80 | 28.39 | 797775 | 5,00,205 | 2.68 | 589350 | 3,39,240 | 2.36 |
| Fibre | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 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 – Highest Yield, L – Lowest Yield A – Average Yield

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

|  |  |  |
| --- | --- | --- |
| **Data on other parameters in relation to technology demonstrated** | | |
| **Parameter with unit** | **Demo** | **Check** |
| ICM in groundnut  Number of pods/ plant | 30 | 23 |
| ICM in greengram%  Yellow mosaic | 4.02 | 2.12 |
| Introduction of finger millet var. ML-365 for higher yield  % Neck blast | 2.5 | 4.3 |
| Integrated crop management in Onion   1. Days taken to harvest (Days) 2. Bulb splitting (%) 3. Bulb rot (%) | 120-125  3.5  13.8 | 110-115  18.5  19.5 |
| Demonstration of Bhima Shakti onion variety for higher yield in Rabi season   1. Avg. Bulb weight (g) 2. Bulb rot (%) 3. Purple blotch incidence (%) 4. Days taken to harvest (Days) | 128.5  14.9  18.8  130 | 90  19.6  20.6  121.6 |
| Integrated Crop Management in Mango   1. No of Fruits/plant 2. Leaf hopper/inflorescence (No.) 3. Powdery mildew/inflorescence (%) | 235  10  6.9 | 163  16  11.5 |
| Integrated management of pod borer and sterility mosaic in Redgram (2020-21)   1. Number of pods per plant(No.s) 2. Pod borer incidence (%) 3. Sterility mosaic incidence (%) | 178  2.39  2.66 | 151  6.96  12.75 |
| Integrated management of pod borer and wilt in Bengalgram (2020-21)   1. Number of pods per plant 2. Pod borer larval incidence (%) 3. Wilt disease incidence (%) | 87  1.32  13.34 | 72  4.24  16.71 |
| Integrated management of Fall army worm on Maize   1. Plant height(cms) 2. No. of larva per 10 plants 3. No. moths trapped per trap | 169.6  1.8  3.45 | 161.7  12.60  0 |
| INM in Arecanut   1. No. of nut drop 2. No. of nut splitting | 9  8 | 21  17 |
| INM in Banana (2020-21)   1. Bunch weight (kg) 2. No. of fruits per bunch (No.s) | 18.3  134 | 14.5  118 |

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 |
| Integrated crop management in Onion | Bhima super seeds availability at locally | Nil |
| Demonstration of Bhima Shakti onion variety for higher yield in *Rabi* season | Bhima shakti seeds availability at locally | Nil |
| Integrated Crop Management in Mango | Arka mango special availability at locally | Nil |
| Integrated management of pod borer and sterility mosaic in Redgram (2020-21) | Use of pulse magic application has increased the yield | Nil |
| Integrated management of pod borer and wilt in Bengalgram (2020-21) | Use of chick pea special application has increased the yield and need based application minimized the cost in insecticides | Nil |
| Integrated management of Fall army worm on Maize | Recommended dosage of fertilizers has reduced the cost and timely application reduced the incidence the incidence of fall army worm | Nil |
| 1. INM in Arecanut  2. INM in Banana (2020-21) | Integrated nutrient management reduced the nut drop and nut splitting in arecanut and increased the yield over check plot.  Integrated nutrient management and foliar spray of Arka banana special increased the bunch weight and yield compared to check. | Nil |

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 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Poultry | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Rabbitry | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Pigerry | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sheep and goat | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 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 |
| - | - | - |
| - | - | - |

5.B.5. Fisheries

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Type of Breed | Name of the technology demonstrated | Breed | No. of Demo | Units/ Area (m2) | 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) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

\* 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 {m2} | 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

**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 Man days | | % 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 labour saved (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 | 10 | 266 | - |
| 2 | Farmers Training | 40 | 895 | - |
| 3 | Media coverage | 8 | - | - |
| 4 | Training for extension functionaries | - | - | - |
| 5 | Others (Please specify) | 6 | 72 | - |

**PART VI – DEMONSTRATIONS ON CROP HYBRIDS**

**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**

**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 | 3 | 38 | 9 | 47 | 12 | 8 | 20 | 50 | 17 | 67 |
| Resource Conservation Technologies | - | - | - | - | - | - | - | - | - | - |
| Cropping Systems | - | - | - | - | - | - | - | - | - | - |
| Crop Diversification | - | - | - | - | - | - | - | - | - | - |
| Integrated Farming | - | - | - | - | - | - | - | - | - | - |
| Micro Irrigation/Irrigation | - | - | - | - | - | - | - | - | - | - |
| Seed production | - | - | - | - | - | - | - | - | - | - |
| Nursery management | - | - | - | - | - | - | - | - | - | - |
| Integrated Crop Management | 14 | 237 | 82 | 319 | 81 | 46 | 127 | 318 | 128 | 446 |
| Soil and Water Conservation | - | - | - | - | - | - | - | - | - | - |
| Integrated Nutrient Management | - | - | - | - | - | - | - | - | - | - |
| Production of organic inputs | 2 | 22 | 6 | 28 | 6 | 0 | 6 | 28 | 6 | 34 |
| Others (pl.specify) Organic farming | 5 | 100 | 20 | 120 | 37 | 5 | 42 | 137 | 25 | 145 |
| **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) Seed production | 6 | 125 | 0 | 125 | 0 | 0 | 0 | 125 | 0 | 125 |
| DLH crops | 6 | 169 | 29 | 198 | 0 | 0 | 0 | 169 | 29 | 198 |
| **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 | 3 | 12 | 85 | 97 | 5 | 37 | 42 | 17 | 122 | 139 |
| Integrated water management | 2 | 3 | 23 | 26 | 3 | 20 | 23 | 6 | 43 | 49 |
| Integrated nutrient management | 1 | 15 | 0 | 15 | 11 | 0 | 11 | 26 | 0 | 26 |
| Production and use of organic inputs | 1 | 0 | 32 | 32 | 1 | 16 | 17 | 1 | 48 | 49 |
| Management of Problematic soils | - | - | - | - | - | - | - | - | - | - |
| Micro nutrient deficiency in crops | - | - | - | - | - | - | - | - | - | - |
| Nutrient use efficiency | - | - | - | - | - | - | - | - | - | - |
| Balanced use of fertilizers | 1 | 13 | 1 | 14 | 13 | 21 | 34 | 26 | 22 | 48 |
| Soil and water testing | 2 | 48 | 15 | 63 | 3 | 4 | 7 | 51 | 19 | 70 |
| Others (pl.specify) Human nutrition | 1 | 0 | 21 | 21 | 0 | 10 | 10 | 0 | 31 | 31 |
| **Livestock Production and Management** |  |  |  |  |  |  |  |  |  |  |
| Dairy Management | - | - | - | - | - | - | - | - | - | - |
| Poultry Management | - | - | - | - | - | - | - | - | - | - |
| Piggery Management | - | - | - | - | - | - | - | - | - | - |
| Rabbit Management | - | - | - | - | - | - | - | - | - | - |
| Animal Nutrition Management | - | - | - | - | - | - | - | - | - | - |
| Animal Disease Management | - | - | - | - | - | - | - | - | - | - |
| Feed and Fodder technology | 1 | 25 | 2 | 27 | 12 | 1 | 13 | 37 | 3 | 40 |
| Production of quality animal products | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **Home Science/Women empowerment** |  |  |  |  |  |  |  |  |  |  |
| Household food security by kitchen gardening and nutrition gardening | 5 | 126 | 77 | 203 | 10 | 12 | 22 | 136 | 89 | 225 |
| 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 | - | - | - | - | - | - | - | - | - | - |
| Women empowerment | 1 | 0 | 0 | 0 | 0 | 15 | 15 | 0 | 15 | 15 |
| 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 | 3 | 113 | 37 | 150 | 39 | 3 | 42 | 152 | 40 | 192 |
| Integrated Disease Management | 3 | 51 | 30 | 81 | 41 | 17 | 58 | 92 | 47 | 139 |
| 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** | **60** | **1097** | **469** | **1566** | **274** | **215** | **489** | **1371** | **684** | **2038** |

**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 | 2 | 23 | 8 | 31 | 6 | 3 | 9 | 29 | 11 | 40 |
| Resource Conservation Technologies | - | - | - | - | - | - | - | - | - | - |
| Cropping Systems | - | - | - | - | - | - | - | - | - | - |
| Crop Diversification | - | - | - | - | - | - | - | - | - | - |
| Integrated Farming | - | - | - | - | - | - | - | - | - | - |
| Micro Irrigation/Irrigation | - | - | - | - | - | - | - | - | - | - |
| Seed production | - | - | - | - | - | - | - | - | - | - |
| Nursery management | - | - | - | - | - | - | - | - | - | - |
| Integrated Crop Management | 6 | 93 | 39 | 132 | 51 | 17 | 68 | 144 | 56 | 200 |
| Soil and Water Conservation | - | - | - | - | - | - | - | - | - | - |
| Integrated Nutrient Management | - | - | - | - | - | - | - | - | - | - |
| Production of organic inputs | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) Organic farming | 1 | 35 | 4 | 39 | 10 | 1 | 11 | 45 | 5 | 50 |
| **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) Seed production | 2 | 38 | 0 | 38 | 0 | 0 | 0 | 38 | 0 | 38 |
| Nutrient management | 1 | 24 | 0 | 24 | 0 | 0 | 0 | 24 | 0 | 24 |
| DLH crops | 3 | 56 | 7 | 63 | 27 | 2 | 29 | 83 | 9 | 92 |
| **b) Fruits** |  |  |  |  |  |  |  |  |  |  |
| Training and Pruning | 4 | 96 | 1 | 97 | 0 | 0 | 0 | 96 | 1 | 97 |
| 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 | 3 | 73 | 10 | 83 | 3 | 0 | 3 | 76 | 10 | 86 |
| 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 | 2 | 18 | 1 | 19 | 2 | 0 | 2 | 20 | 1 | 21 |
| 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 | - | - | - | - | - | - | - | - | - | - |
| Poultry Management | - | - | - | - | - | - | - | - | - | - |
| Piggery Management | - | - | - | - | - | - | - | - | - | - |
| Rabbit Management | - | - | - | - | - | - | - | - | - | - |
| Animal Nutrition Management | - | - | - | - | - | - | - | - | - | - |
| Animal Disease Management | - | - | - | - | - | - | - | - | - | - |
| Feed and Fodder technology | - | - | - | - | - | - | - | - | - | - |
| Production of quality animal products | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **Home Science/Women empowerment** |  |  |  |  |  |  |  |  |  |  |
| Household food security by kitchen gardening and nutrition gardening | 4 | 40 | 56 | 96 | 0 | 0 | 0 | 40 | 56 | 96 |
| 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 | - | - | - | - | - | - | - | - | - | - |
| Women empowerment | - | - | - | - | - | - | - | - | - | - |
| 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 | 2 | 77 | 40 | 117 | 58 | 33 | 91 | 135 | 73 | 208 |
| Integrated Disease Management | 2 | 53 | 16 | 69 | 30 | 11 | 41 | 83 | 27 | 110 |
| 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** | **32** | **626** | **182** | **808** | **187** | **67** | **254** | **813** | **249** | **1062** |

**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 | 1 | 12 | | 2 | | 14 | 6 | 3 | 9 | 18 | 5 | 23 |
| Integrated Pest Management | 3 | 102 | | 3 | | 105 | 6 | 0 | 6 | 108 | 3 | 111 |
| Integrated Nutrient management |  |  | |  | |  |  |  |  |  |  |  |
| Rejuvenation of old orchards | - | - | | - | | - | - | -- | - | - | - | - |
| Protected cultivation technology | - | - | | - | | - | - | -- | - | - | - | - |
| Production and use of organic inputs | 1 | 12 | | 2 | | 14 | 4 | 1 | 5 | 16 | 3 | 19 |
| 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 | 1 | 28 | | 3 | | 31 | 12 | 3 | 15 | 40 | 6 | 46 |
| Household food security | - | - | | - | | - | - | -- | - | - | - | - |
| Any other (pl. specify) | - | - | | - | | - | - | -- | - | - | - | - |
| **Total** | 6 | 154 | | 10 | | 164 | 28 | 7 | 35 | 182 | 17 | 199 |

**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 | 1 | 40 | | 15 | | 55 | 25 | 15 | 40 | 65 | 30 | 95 |
| 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** | **1** | **40** | | **15** | | **55** | **25** | **15** | **40** | **65** | **30** | **95** |

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)- Livelihood awareness programme  under strengthening and development of higher  agricultural education in India for Scheduled Caste beneficiaries | **1** | **0** | **0** | **0** | **0** | **15** | **15** | **0** | **15** | **15** |
| **12** | **Agricultural Extension** | - | - | - | - | - | - | - | - | - | - |
| 12.a. | Capacity Building and Group Dynamics | - | - | - | - | - | - | - | - | - | - |
| 12.b. | Others (pl. specify) | - | - | - | - | - | - | - | - | - | - |
|  | **Total** | **1** | **0** | **0** | **0** | **0** | **15** | **15** | **0** | **15** | **15** |

**Details of sponsoring agencies involved**

**1. ICAR**

**2.**

**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.I. 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** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**PART VIII – EXTENSION ACTIVITIES**

**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** |
| Advisory services | 1316 | 658 | 132 | 790 | 395 | 132 | 526 | 956 | 360 | 1316 |
| Farmers visit to KVKs | 5397 | 2699 | 540 | 3238 | 1619 | 540 | 2159 | 2600 | 2439 | 5039 |
| Lectures delivered as resource persons | 62 | 1388 | 278 | 1666 | 833 | 278 | 1110 | 45 | 17 | 62 |
| Diagnostic Visits | 9 | 11 | 2 | 13 | 7 | 2 | 9 | 44 | 10 | 54 |
| Field Days | 26 | 464 | 93 | 556 | 278 | 93 | 371 | 56 | 16 | 72 |
| Group discussions/ meetings | 8 | 61 | 12 | 73 | 37 | 12 | 49 | 16 | 6 | 22 |
| Kisan Gosthies | 3 | 68 | 14 | 81 | 41 | 14 | 54 | 3 | 2 | 5 |
| Film Shows | 9 | 156 | 31 | 187 | 93 | 31 | 124 | 9 | 6 | 15 |
| Self help group meetings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mahila mandals meetings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kisan Melas | 3 | 68 | 14 | 81 | 41 | 14 | 54 | 21 | 16 | 37 |
| Exhibitions | 4 | 7120 | 1424 | 8544 | 4272 | 1424 | 5696 | 12 | 6 | 18 |
| Scientist visit to farmers fields | 314 | 197 | 39 | 236 | 118 | 39 | 158 | 290 | 46 | 336 |
| Soil health camps | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  | 0 |
| Animal health camps | 1 | 325 | 65 | 390 | 195 | 65 | 260 | 28 | 15 | 43 |
| Plant health camps | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Farm Science Club meetings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ex-trainees Sammelans | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Farmers seminars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Workshops | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Method Demonstrations | 54 | 340 | 68 | 408 | 204 | 68 | 272 | 46 | 16 | 62 |
| Celebration of important days |  |  |  |  |  |  |  |  |  |  |
| Republic day | 1 | 14 | 5 | 19 | 10 | 3 | 13 | 11 | 4 | 15 |
| International women’s day | 1 | 25 | 8 | 34 | 17 | 6 | 22 | 4 | 8 | 12 |
| World water day | 1 | 18 | 6 | 23 | 12 | 4 | 16 | 2 | 1 | 3 |
| World honeybee day | 1 | 10 | 3 | 13 | 7 | 2 | 9 | 2 | 1 | 3 |
| World milk day | 1 | 22 | 7 | 29 | 15 | 5 | 20 | 3 | 0 | 3 |
| World Environment day | 1 | 14 | 5 | 19 | 10 | 3 | 13 | 4 | 2 | 6 |
| 75th Independence Day | 1 | 23 | 8 | 31 | 16 | 5 | 21 | 14 | 12 | 26 |
| Parthenium awareness week programme | 1 | 12 | 4 | 16 | 8 | 3 | 10 | 3 | 2 | 5 |
| World Food Day | 1 | 32 | 11 | 42 | 21 | 7 | 28 | 2 | 2 | 4 |
| World Food Day | 1 | 14 | 5 | 19 | 10 | 3 | 13 | 2 | 0 | 2 |
| World Soil day | 1 | 66 | 22 | 88 | 44 | 15 | 58 | 3 | 2 | 5 |
| Special day celebrations |  |  |  |  |  |  |  |  |  |  |
| Swachta Abhiyan | 1 | 16 | 5 | 21 | 11 | 4 | 14 | 2 | 2 | 4 |
| Fertilizer application awareness programme | 1 | 14 | 5 | 19 | 10 | 3 | 13 | 4 | 2 | 6 |
| Tree planting programme on the occasion of ICAR foundation day | 1 | 12 | 4 | 16 | 8 | 3 | 10 | 3 | 2 | 5 |
| Food and Nutrition for farmers | 1 | 19 | 6 | 25 | 13 | 4 | 17 | 2 | 2 | 4 |
| International Millet year – 2023 and Nutrigarden and Tree planting programme | 1 | 74 | 25 | 99 | 50 | 17 | 66 | 4 | 3 | 7 |
| Prime Ministers programme on Climate Resilient varieties | 1 | 24 | 8 | 32 | 16 | 5 | 21 | 3 | 2 | 5 |
| Swachatha seva programme | 1 | 23 | 8 | 31 | 16 | 5 | 21 | 2 | 0 | 2 |
| Special National Swachhata Campaign on Waste to health programme | 1 | 27 | 9 | 36 | 18 | 6 | 24 | 1 | 1 | 2 |
| Kissan diwas | 1 | 192 | 64 | 256 | 128 | 43 | 171 | 4 | 2 | 6 |
| PM-Natural Farming programme | 1 | 14 | 5 | 19 | 9 | 3 | 12 | 2 | 2 | 4 |
| Awareness on cleaning of fruit orchards and recycling of farm wastes | 1 | 8 | 3 | 11 | 5 | 2 | 7 | 1 | 1 | 2 |
| Awareness on vermicomposting techniques to rural youths | 1 | 13 | 4 | 17 | 8 | 3 | 11 | 2 | 0 | 2 |
| Online training program on farm waste management in orchards | 1 | 10 | 3 | 13 | 7 | 2 | 9 | 1 | 0 | 1 |
| Awareness on organic farming practices in kitchen gardens | 1 | 23 | 8 | 30 | 15 | 5 | 20 | 1 | 0 | 1 |
| Awareness on organic farming practices in kitchen gardens | 1 | 20 | 7 | 27 | 14 | 5 | 18 | 1 | 0 | 1 |
| Cleanliness, removal of parthanium and sanitation within campuses and surroundings | 1 | 22 | 7 | 29 | 14 | 5 | 19 | 0 | 1 | 1 |
| Cleaning of public places | 1 | 21 | 7 | 28 | 14 | 5 | 19 | 2 | 1 | 3 |
| PM-Kisan Samman Day | 1 | 14 | 5 | 19 | 10 | 3 | 13 | 3 | 2 | 5 |
| Swatchatha programme | 1 | 55 | 18 | 74 | 37 | 12 | 49 | 3 | 2 | 5 |
| Exposure visits | 2 | 44 | 9 | 53 | 26 | 9 | 35 | 4 | 1 | 5 |
| Others, Please specify -Telephone consultation | 3730 | 1865 | 373 | 2238 | 1119 | 373 | 1492 | 3000 | 730 | 3730 |
| Farmers scientist interaction | 47 | 344 | 69 | 413 | 206 | 69 | 275 | 42 | 12 | 54 |
| RSK Visit | 13 | 122 | 24 | 146 | 73 | 24 | 98 | 13 | 0 | 13 |
| **Total** | **11028** | **16781** | **3472** | **20248** | **10130** | **3378** | **13499** | **7276** | **3757** | **11033** |

**8.2 Other extension activities like print and electronic media etc.**

|  |  |  |
| --- | --- | --- |
| Sl. No. | **Type of media/activity** | **Number of activities/Number** |
| 1 | Popular articles | 7 |
| 2 | Newspaper coverage | 34 |
| 3 | Extension Literature | 1 |
| 4 | Radio Talks | 31 |
| 5 | TV Talks | 1 |
| 6 | CD/DVD/Video clips | 22 |
| 7 | Animal health camps (no. of animal treated) | 21 |
| 8 | Others, please specify- Research papers published in scientific journals | 1 |
|  | **Total** | **118** |

**PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIAL**

**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) | Foxtail millet | HMT-101 | 3.5 | -- | Yet to sold |
| Oilseeds | ---- | ---- | ---- | ---- | ---- |
| Pulses | Bengalgram | JG-11 | 21.5 | 1,25000 | Given to KSSC |
| Commercial crops | ---- | ---- | ---- | ---- | ---- |
| Vegetables | ---- | ---- | ---- | ---- | ---- |
| Flower crops | ---- | ---- | ---- | ---- | ---- |
| Spices | ---- | ---- | ---- | ---- | ---- |
| Fodder crop seeds | Fodder Jowar | COFS-31 | 1.6 | 1,04000 | 50 Farmers |
|  | Napier cuttings | Super Napier | 19936 cuttings | 34,300 | 17 farmers |
| Fiber crops | ---- | ---- | ---- | ---- | ---- |
| Forest Species | ---- | ---- | ---- | ---- | ---- |
| Others (specify) | ---- | ---- | ---- | ---- | ---- |
| **Total** |  |  | **26.1 q + 19936 cuttings** | **Rs. 2,63,300** |  |

**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 | Drumstick | PKM-1 | 1230 seedlings | Rs. 18,450 | 12 farmers |
|  | Curry leaf | Suhasini | 79 seedlings | Rs. 1,185 | 9 farmers |
| Fruits | Jamun | Jambu Nerale | 65 seedlings | Rs. 3,250 | 11 farmers |
|  | Guava | Allahabad Safed | 27 seedlings | Rs. 2,075 | 9 farmers |
| Ornamental plants | ---- | ---- | ---- | ---- | ---- |
| Medicinal and Aromatic | ---- | ---- | ---- | ---- | ---- |
| Plantation | Arecanut | Local | 3470 seedlings | Rs. 86,750 | 8 farmers |
|  | Coconut | Arsikere Tall | 1638 seedlings | Rs. 1,14,000 | 22 farmers |
| Spices | ---- | ---- | ---- | ---- | ---- |
| Tuber | ---- | ---- | ---- | ---- | ---- |
| Fodder crop saplings | ---- | ---- | ---- | ---- | ---- |
| Forest Species | Tamarind | Sweet Hunase | 82 seedlings | Rs. 2,125 | 6 farmers |
| Citrus | Lemon | Balaji | 35 seedlings | Rs. 525 | 4 farmers |
| **Total** |  |  | 6591 seedlings | Rs. 2,27,835 |  |

**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 | PSB | 1.40 | 16800 | 72 |
| Bio-pesticide |  |  |  | 0 |
|  | *Pseudomonas fluorescence* | 5.75 | 69000 | 270 |
|  | *Trichoderma viride* | 8.00 | 96000 | 350 |
| Bio-fungicide |  |  |  | 0 |
| Bio Agents | Compost culture | 0.25 | 3000 | 15 |
| Others (specify) |  |  |  | 0 |
| **Total** |  | **1540** | **184800** | **707** |

# 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) | **-** | **-** | **-** | **-** |
| **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** | **-** | **-** | **-** | **-** |

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

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

(i) KVK Newsletter: Nil

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

(ii) Summary of Literature developed/published

|  |  |
| --- | --- |
| **Item** | **Number** |
| Research papers- International | - |
| Research papers- National | 1 |
| Technical reports | 7 |
| Technical bulletins | - |
| Popular articles - English | - |
| Popular articles – Local language(Kannada) | 9 |
| Extension literature | - |
| Others if any |  |

(iii) Details of Literature developed/published**- Research papers**

Meghana N, Prakash Kerure, Srinivasa V, Kantharaj Y and Shashikala S Kolakar (2021), Assessment of onion (*Allium cepa* L.) varieties for growth and yield attributes under central dry zone of Karnataka, *The Pharma Innovation Journal*, 10(12): 1712-1715.

**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- Whatsapp | * KVK Chitradurga * Farmers Hiriyur KVK CTA * KVK Chitradurga-2 * Progressive farmers KVK * Farmers Hosdurga KVK CTA | **211 (No. of Participants )**  **55 (No. of Participants )**  **73 (No. of Participants )**  **29 (No. of Participants )**  **53 (No. of Participants )** |
| 4 | Facebook account name | KVK Chitradurga | **3600 Followers** |
| 5 | Instagram account name | - |  |
| 6 | Others if any | Twitter- KVK Chitradurga | **-** |

**10.C. Success Stories / Case studies, if any (two/three-pages write-up on each case with suitable action photographs. The Success Stories / Case Studies need not be restricted to the reporting period).**

1. **Shri Vedamurthy-A Successful Farmer Innovator by Adopting Integrated Farming System**

Shri Vedamurthy S/o Timmanna is a successful farmer innovator of K.R.Halli, Hiriyur Tq, Chitradurga District-577 511. He is having total of 25 acres land with indivisible family size of 13 members and involved in agriculture as passion and became role model for fellow famers of his village. Among his total land 15 acres is under irrigated conditions and 10 acres in dry land farming. He is growing mainly agriculture crops like Finger millets, Jowar, Maize, sunflower, redgram, green gram and black gram and horticulture crops like Pomegranate, papaya, watermelon both commercial and contract farming for seed production, red chilli, tomato. In dry land farming cultivating cashew, forest species like Melia dubia. Apart from this he is also successful in dairy farming, goat farming and ornamental fish culture.

Total of his 25 acre growing tomato (2 acres), watermelon and muskmelon (5 acres), red chilli (2.5 acres), pomegranate (3000 plants), papaya (5000 plants), rose (1 acre), cashew (1 acre), millets (3 acres), groundnut (2 acres), HF cross breeds as dairy farming (5) and goats of 13 numbers. All along the bund grown forest tree species as Teak (25 No.) Hebbevu (30 No.), lime (10 No.), Ramphal (1 No.), Butter fruit (1 No.), Guava (5 No.). For fodder purpose he is growing super Napier and fodder sorghum in one acre. He established concrete lines farm pond with fertigation techniques systems. He is successful entrepreneur in commercial vegetable seed productions by contact farming with MNC companies and pulse seed production with agriculture department and NSP with UASB. Due to his farm innovations developed vegetable seed extractor, raised bund farmer, engine operated power weeder. He is earning annual income of more than Rs.10 lakh from agriculture and allied sectors of his farm

Due to his significant contributions in the field of agriculture he is honored with many awards. He attended 2007 international agriculture educational tour to China by GOK, 2013 UAHS “Best Farmer Award” of Chitradurga District, 2014-15 state level “Shreshta Krishika award” from department of agriculture, GOK, 2018 “VK Super Star” farmer award from Vijaya Karnataka press, 2017-18 “Farm innovator” by SKDRDP, 2018-19 Plant genome savior farmers award by protection of plant varieties and farmers’ rights authority, GOI, New Delhi. He is also actively involving as recourse persons in various training programmes, Radio/TV programmes *etc*. having immense knowledge in the field of agriculture inspiring many farmers in the districts.

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | C:\Users\Admin\Documents\IMG-20211111-WA0046.jpg |

1. **Title :** **Spread of technology in introduction of Finger millet variety ML-365 in Chitradurga district**

**Background :** Finger millet is one of the most important food crop of Chitradurga district. It is cultivated in an area of **44901**ha with a total production of **91437** MT and average productivity of 1540 kg/ha. But yields obtained by farmers in the region are lower due to several reasons.

The problem analysis revealed that the lower yields were due to imbalanced nutrient management, non-application of bio fertilizers, lack of knowledge on split application of fertilizers, micronutrients, stem borer ,neck blast and use of old varieties. To overcome these problems we have planned to conduct front line demonstrations and method demonstration in finger millet through KVK. To create awareness and spread technology through trainings, news paper and radio. The main aim of KVK is to suggested to combined use of organic manures, bio fertilizers, macro and micronutrient, bio-pesticide, insecticides would go a long way in maximizing production per unit area, without affecting the soil productivity and encourage natural enemies.

**Interventions: Process : Technology**

The front line demonstrations were conducted in Chitradurga district during 2014-15, 2014-15, 2015-16 and 2016-17 to study on **“Introduction of Finger millet variety ML-365 in Chitradurga”**. This study comprised of two plots as demo and check plot and demonstrated in 20 farmer’s field with ML-365 variety. The application of organic manures (7.5 t/ha), bio-fertilizers (500 g/ha seeds), ZnSO4 (10 kg/ha), recommended dose of fertilize (50:40:25 NPK kg/ha) along with IPDM measures were followed in demo plot as compared to check plots (applied only inorganic fertilizer 50 kg Urea).

**Impact**

**Horizontal Spread:** During the first year, only five farmers were grown adoption of this variety. After the continuous efforts, enthusiasm and dedication of KVK scientists it spread around 4250 farmers of the district with tune of 10.3 per cent adoption in the district within three years. To create awareness on this technology through conducted twenty on and off campus training programmes during implementation period.

**Economic gains**: The improved technology recorded higher grain yield yield (18.7 q ha-1) with tune of 27 per cent over existing technology. (13.7 q ha-1). The income before and after adaption of these technologies were Rs. 31715 /ha and 42670, respectively. Due to introduction of new variety, stem borer and neck blast incidence were less in ML-365 as compared local variety.

**Employment Generation** : Nearly 4250 farmers are involved in cultivation of finger millet variety ML-35

**Figure : Yield and net returns of finger millet as influenced different varieties**

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

**Photo galleries**

|  |  |
| --- | --- |
| Description: E:\KVK Rudragouda Agronomy 16-11-2018\Annual reports 2018-19\All KVK reports\Photos 2018-19\Field day on ragi 1-10-18\20181001_133022.jpg | Description: E:\KVK Rudragouda Agronomy 4-11-2019\Annual reports 2019-20\Photos 2019-20\Field day on ragi 23-10-19\IMG_2567.JPG |

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

**Nil**

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 | Coconut | Castor cake soaked with water in mud pot kept between coconut plants | To trap Rhinoceros beetle | Once trapped beetles in the pot , they cannot come out and die within few hours |

****

10 F. **Technology Week celebration:** Nil

Period of observing Technology Week: From to

Total number of farmers visited :

Total number of agencies involved :

Number of demonstrations visited by the farmers within KVK campus :

Other Details

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

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

1. Dr. S. Onkarappa , Senior Scientist and Head received Best Extension Scientist award by KSNUAHS , Shivamogga during the year 2020-21.
2. KVK, Chitradurga Progressive Farmer Shri. Vedamurthy, K.R.Halli, Hiriyur Tq. was awarded Plant Genome Saviour Farmer Recognition award for conserving farmer verities okra and chilli.
3. Shri Srinivas, Hunasekatte, Chitradurga Tq. and Smt. Sumathi, V.V. Pura, Hiriyur Tq. received best Farmer and Farm women award from KSNUAHS, Shivamogga during the year 2021-22.
4. Dr. Jyothi T.V., Scientist (Soil science) received distinguished woman scientist award - 2021 by society for learning technologies, Vijayawada, Andhra Pradesh, India.

**PART XI – SOIL AND WATER TEST**

**11.1 Soil and Water Testing Laboratory**

A. Status of establishment of Lab :

1. Year of establishment : January 2006

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 | 21,304 | 18,860 | 12,485 | 8,76,640 |
| Water Samples | 19,525 | 17,985 | 11,962 | 15,87,460 |
| Plant samples | - | - | - | - |
| Manure samples | - | - | - | - |
| Others (specify) | - | - | - | - |
| Total | 40,829 | 36,845 | 24,447 | 24,64,100 |

C. Details of samples analyzed during 2021:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages | Amount realized (Rs.) |
| Soil Samples | 1,356 | 1,234 | 843 | 67,800 |
| Water Samples | 1,197 | 1,133 | 821 | 1,19,700 |
| Plant samples | - | - | - | - |
| Manure samples | - | - | - | - |
| Others (specify) | - | - | - | - |
| Total | 2,553 | 2,367 | 1664 | 1,87,500 |

11.2 Mobile Soil Testing Kit

A. Date of purchase and current status: 2016-17

|  |  |  |
| --- | --- | --- |
| Mobile Kits | Date of purchase | Current status |
| 1. | Nil | Not in working condition |

B. Details of soil samples analyzed during 2021 and since establishment with Mobile Soil Testing Kit:

|  |  |  |  |
| --- | --- | --- | --- |
|  | During 2020 | During 2021 | Cumulative progress (Total) |
| Samples analyzed (No.) | Nil | Nil | Nil |
| Farmers benefited (No.) | Nil | Nil | Nil |
| Villages covered (No.) | Nil | Nil | Nil |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Particulars | Date (s) | Villages (No.) | Farmers (No.) | Samples analyzed (No.) | Soil health cards issued (No.) |
| SWTL | Jan 2021-Dec 2021 | 1,356 | 1,234 | 843 | 67,800 |
| Mobile Soil Testing Kit | Nil | Nil | Nil | Nil | Nil |

11.4 World Soil Health Day celebrations

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 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 | 146 | 50 | - | 6 | 12 | 2 |

**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)** |
| Introduction of little millet variety DHLM-36-3 for higher yield | 5 | 8 | 11540 | 16609 |
| ICM in Chrysanthemum | 30 | 8.5 | 3,18,600 | 3,90,000 |

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)**

1. **Demonstration of new Bhima Super onion variety for higher bulb yield**

**Characteristics/demonstration of technology:**

* Demonstration of Bhima Super Variety for late Kharif
* Soil test based (RDF=125:75:125kg NPK/ha) application and spraying of Arka Vegetable Special @ 2g /l
* Seed treatment with Trichoderma @ 4 g /kg
* Use of yellow sticky traps for management of Thrips@10 No./ha
* Growing of high stature crops as barriers in all along the crop

**Achievements:**

* The Bhima Super variety very big size, attractive pinkish red color and high yielder compared to Satara Gurva (24.23 t/ha)and gave highest bulb yield of 30.95 t/ha with duration of 130-135 days and 27.73% increased yield over local variety.
* The high economic returns of Rs. 3,71,769/ha in demo plot with B:C ratio of 5.02 compared to check plot of B:C ratio of 4.69

**Spread of technology**:

* To create awareness on this technology conducted regular on and off campus training programmes during implementation period.
* Filed days and farmers scientist interaction during *Kharif* campaign help to spared of technology.

Nearly, it was spread in 50 ha during 2017-18 and 100-150 ha during 2018-19.

****

2**. Enhancement chrysanthemum flower productivity through ICM practices**

**Technology and activity details:**

* RDF and FYM-25 t/ha
* Micronutrients: Soil application of ZnSO4 @ 4 kg/ha and Borax @ 1kg/ha
* Soil application of Trichoderma, PSB, Pseudomonas through enriching of FYM @ 4 kg/t
* Spray of Indoxacarb @ 2mll for control of bud borer

**Achievements**

* Farmers expressed there is slight increase in quality with respect to good color development and yield mainly due to balanced nutrient management
* The flower yield was highest in demo plot of 7.95 t/ha as compared to control plot of 6.30 t/ha and there was 26.12 per cent increased yield with quality flower production by reduced incidence of deformed flower by 1.8% in demo plot
* High economic returns of Rs. 8,27,000/ha (Net returns) with BCR of 4.33 as compared to check plot of BCR of 3.80

**Spread of technology**:

* To create awareness on this technology conducted regular on and off campus training programmes during implementation period.
* Filed days and farmers scientist interaction during *Kharif* campaign help to spared of technology.
* In Hiriyur Tq., the technology was spread over 25 ha and got good results



**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)** |
| ICM in groundnut | 50 | 19 | 26709 | 35511 |
| Popularisation of greengram variety KKM-3 for higher yield | 25 | 8 | 8998 | 12676 |
| ICM in Onion | 25 | 11 | 4,17,833 | 2,78,500 |

**PART XIII - LINKAGES**

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

|  |  |
| --- | --- |
| **Name of organization** | **Nature of linkage** |
| Department of Agriculture, Chitradurga | * Extension activities (conducting *Kharif* campaigns, seminars, workshops), Large scale demonstration, Agri. Inputs. * Transfer of technologies through extension functionaries for large scale adoption |
| Department of Horticulture, Chitradurga | * Extension activities (conducting *Kharif* campaigns, seminars, workshops), Large scale demonstration , Horti. Inputs. * Transfer of technologies through extension functionaries for large scale adoption |
| AIR Chitradurga | * Dissemination of technology through radio programmes , farm advisories, forecast |
| Chandana TV | * Dissemination of technology |
| NABARD | * Technologies transferred to FPO’s of Chitradurga (Coconut and onion) |
| Animal Husbandry | * Conducting animal health camp and trainings |
| Department of forestry | * Awareness trainings and Vanamahostava |
| Department of Sericulture | * Transfer of technologies through FLD |
| Department of Women and Child development | * Nutrition awareness programme |
| Department of Education | * Created awareness on Agri. and Horti. Crops * Swacchata programme |
| IIHR | * Farm trails * Seeds * Micronutrients |
| IFFCO | * Special programmes conducted * Seed kit distributed |
| SKDRDP | * Involved in Training programmes |
| FPO’s | * 4 FPO’s - Technical support provided |
| CDB | * Field days were organized |
| ICICI Foundation | * Webinars were conducted |

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.)** |
| Field day on Coconut | Sept. 2021 | CDB, Bangalore | 37,500 |

**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** | ATMA meetings | 4 | Nil | - |
| **02** | **Research projects** | Nil | Nil | Nil | Nil |
|  |  |  |  |  |  |
| **03** | **Training programmes** | Participated as resource person | 6 | Nil | NIl |
|  |  |  |  |  |  |
| **04** | **Demonstrations** | Method demonstrations | 2 | Nil | Nil |
|  |  |  |  |  |  |
| **05** | **Extension Programmes** |  |  |  |  |
|  | Kisan Mela | Nil | Nil | Nil | Nil |
|  | Technology Week | Nil | Nil | Nil | Nil |
|  | Exposure visit | Exposure visit to Krishi mela at KSNUAHS, Shivamogga | 1 | Nil | Nil |
|  | Exhibition | Nil | Nil | Nil | Nil |
|  | Soil health camps | Soil health day | 2 | Nil | Nil |
|  | Animal Health Campaigns | Animal Health Camp | 1 | Nil | Nil |
|  | Others (Pl. specify) | Nil | Nil | Nil | Nil |
| **06** | **Publications** |  |  |  |  |
|  | Video Films | Nil | Nil | Nil | Nil |
|  | Books | Nil | Nil | Nil | Nil |
|  | Extension Literature | Nil | Nil | Nil | Nil |
|  | Pamphlets | Nil | Nil | Nil | Nil |
|  | Others (Pl. specify) | Nil | Nil | Nil | Nil |
| **07** | **Other Activities** (Pl.specify) |  |  |  |  |
|  | Watershed approach | Nil | Nil | Nil | Nil |
|  | Integrated Farm Development | Nil | Nil | Nil | Nil |
|  | Agri-preneurs development | Promotion of Value addition to Mrs. Sumathi, V.V. Pura , Hiriyur | 1 | Nil | Nil |

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

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

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

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

**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 | - | - | **-** | - | - | **-** | - | - | **-** | - |
| February | - | - | **-** | - | - | **-** | - | - | **-** | - |
| March | - | - | **-** | - | - | **-** | - | - | **-** | - |
| April | - | - | **-** | - | - | **-** | - | - | **-** | - |
| May | - | - | **-** | - | - | **-** | - | - | **-** | - |
| June | - | - | **-** | - | - | **-** | - | - | **-** | - |
| July | - | - | **-** | - | - | **-** | - | - | **-** | - |
| August | - | - | **-** | - | - | **-** | - | - | **-** | - |
| September | - | - | **-** | - | - | **-** | - | - | **-** | - |
| October | - | - | **-** | - | - | **-** | - | - | **-** | - |
| November | - | - | **-** | - | - | **-** | - | - | **-** | - |
| December | - | - | **-** | - | - | **-** | - | - | **-** | - |
| **Total** | - | - | **-** | - | - | **-** | - | - | **-** | - |

**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 | 2016 | 25\*3\*3  (2 units) | - | - | 4 Ton/year |  |  | Utilized for KVK Farm |
| 2 | Mango mother block | 2018 | 10 guntas | Arka Udaya, Sindhura, Mallika, Totapuri, Banganapalli | - | - | - | - | 4 years old with bearing |
| 3 | Farm pond | 2016 | (21\*21\*4)m | - | - |  |  |  | Utilized for KVK Farm |
| 4 | Agro forestry | 2005 | 0.4 ha | Local teak + intercrop | - | - | - | - | 17 years old |
| 5 | Castor | 2021 | 0.1 ha | DCH-177(hybrid)  ICH-66(hybrid) | - | 15kg  22kg | - | - | - |

**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 |  |  |  |  |  | |  |  |  |  |
| Foxtail millet | 15-08-2021 | 10-12-2021 | 0.8 | HMT-101 | - | | 3.5q | 8,000 | 8,750 | - |
| Pulses |  |  |  |  |  | |  |  |  |  |
| Redgram | 25-07-2021 | 21-1-2022 | 0.1 | BRG-2  BRG-5  BSMR-736 | - | | 10kg  13kg  15kg | 1,800 | 1,900 | - |
| Bengalgram | 23-10-2021 | 15-2-2022 | 2.8 | JG-11 | - | | 21.5 | 43,000 | 1,25,000 | - |
| Oilseeds |  |  |  |  |  | |  |  |  |  |
| Castor | 15-07-2021 | 20-12-2021 | 0.1 | DCH177(hybrid)  ICH-66(hybrid) | - | | 15kg  22kg | 1,600 | 1,800 |  |
| Fibers | - | - | - | - | - | | - | - | - | - |
|  |  |  |  |  |  | |  |  |  |  |
| Spices & Plantation crops | | | | | | | | | | |
|  |  |  |  |  | |  |  |  |  |  |
| Floriculture | - | - | - | - | | - | - | - | - | - |
|  |  |  |  |  | |  |  |  |  |  |
| Fruits | - | - | - | - | | - | - | - | - | - |
|  |  |  |  |  | |  |  |  |  |  |
| Vegetables | - | - | - | - | | - | - | - | - | - |
|  |  |  |  |  | |  |  |  |  |  |
| Others (specify) | | | | | | | | | | |
| Fodder crop seeds |  |  |  |  | |  |  |  |  |  |
| Fodder Jowar | Perennial | - | 0.2 | COFS-31 | | - | 1.6q | 27,000 | 1,04000 | 50 Farmers |
| Napier cuttings | Perennial | - | 0.1 | Super napier | | - | 19936 cuttings | 7,000 | 34,300 | 17 farmers |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Name of the Product** | **Qty(q)** | **Amount (Rs.)** | | **Remarks** |
| **Cost of inputs** | **Gross income** |
| 1 | Bio-pesticide |  |  |  |  |
| a | *Pseudomonas fluorescence* | 5.75 | 60,375 | 69000 | Bio agents are produced under startup programme |
| b | *Trichoderma viride* | 8.00 | 84,000 | 96000 |  |
|  | Total | 13.75 | 144,375 | 165000 |  |

**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 | - | - | - |
| February | - | - | - |
| March | - | - | - |
| April | - | - | - |
| May | - | - | - |
| June | - | - | - |
| July | - | - | - |
| August | - | - | - |
| September | 19 | 12 | - |
| October | 15 | 6 | - |
| November | 28 | 4 | - |
| December | 30 | 2 | - |

**14F. Database management**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Database target** | **Database created** |
| **1** | Farmers database | Created |
| **2** | KVK activities database | Created |
| **3** | Award farmers database | Created |
| **4** | Soil water analysis data | Created |
| **5** | SMS farmers database | Created |

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

1. **Rain Water Harvesting Structure**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Amount sanction (Rs.)** | **Expenditure (Rs.)** | **Details of infrastructure created / micro irrigation system etc.** | **Activities conducted** | | | | | **Quantity of water harvested in ‘000 litres** | **Area irrigated / utilization pattern** |
| **No. of Training programmes** | **No. of Demonstration s** | **No. of plant materials produced** | **Visit by farmers**  **(No.)** | **Visit by officials**  **(No.)** |
| Nil | Nil | Farm pond | 4 | - | - | 130 | 5 | 20,000 | 2 acres (Utilized for Mango and Curry leaf plants during summer months) |
|  |  |  |  |  |  |  |  |  |  |

1. **Micro-irrigation systems**

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

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

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

**15.3 Fertilizer awareness programme organised**

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

**15.4 Seed Hub**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Crops** | **Variety** | **Year of release** | **Production** | | | | **No of farmers benefited/Sold to no. of farmers** | **Quantity seed sold (q)** |
| **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.)** |
| **-** | **-** | **-** | **-** | **-** | **-** | **-** |
|  | **Total** |  |  |  |  |  |

**15.6 CFLDs on Pulses:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sl.No.** | **Crop** | **Varieties demonstrated and check** | **Allocated** | | **Implemented** | |
| **Area (ha)** | **Demos (No.)** | **Area (ha)** | **Demos (No.)** |
| **1** | **Redgram** | **BRG-5** | **22** | **55** | **22** | **55** |
|  |  | **Total** | **22** | **55** | **22** | **55** |

**15.7 Krishi Kalyan Abhiyan (Aspirational districts)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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** |
| Integrated Pest management in Agricultural and Horticultural crops | 16-06-2021 | 24 | 9 | 33 | 19 | 12 | 31 | 2 | 0 | 2 |
| Integrated Pest management in Agricultural crops | 23-06-2021 | 25 | 0 | 25 | 10 | **0** | 10 | 2 | 0 | 2 |
| ICM in groundnut | 08-10-2021 | 18 | 2 | 20 | 15 | 1 | 16 | 2 | 0 | 2 |

**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 Technologies) | 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 | Frontline 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 | Frontline 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** |
| **617** | **5** | **y** | **N** | **N** | **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 | Chitradurga | Challakere | Halligondanahalli | 50 | 26,800 | Groundnut | ICM in groundnut | 13095 | 41106 |
|  |  |  |  |  |  | Finger millet | ICM in Finger Millet | 12405 | 31738 |

**PART XVI - FARMERS FEEDBACK ON ASSESSED/DEMONSTRATED TECHNOLOGIES OF CROPS / LIVESTOCK**

**16.1 Farmers feedback on performance of crop varieties/hybrids**

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Crop varieties/hybrids assessed/ demonstrated** | **Farmer’s feedback** |
| **1** | Bhima Shakthi- Onion variety | Bulbs are big size and attractive color for marketing |

**16.2 Farmers feedback on performance of agronomic practices**

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Agronomic practices** | **Farmer’s feedback** |
| **1** | Use of Nano fertilizers for efficient use of nutrients | Less cost and efficient |

**16.3 Farmers feedback on performance of pest and disease management in crops**

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Pest and disease management in crops** | **Farmer’s feedback** |
| **1** | IPDM in Arecanut, Coconut, Banana, Onion, Bengalgram, Redgram and Maize | Application of bio inputs like Trichoderma has reduced incidence of diseases and minimized the cost on pesticide application |

**16.4 Farmers feedback on performance of farm machinery technologies**

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Farm machinery technologies** | **Farmer’s feedback** |
| **1** | Seed cum fertilizer drill for groundnut sowing | With less time more area covered |

**16.5 Farmers feedback on performance of livestock and fisheries technologies**

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Livestock/fisheries technologies** | **Farmer’s feedback** |
|  |  |  |

**PART XVII - FINANCIAL PERFORMANCE**

**17A. 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 Host Institute (General) | Canara Bank | Hiriyur | 0867 | Senior Scientist & Head | 0867101024602 | 572015302 |
| With KVK | With KVK (RF) | Canara Bank | Hiriyur | 0867 | Senior Scientist & Head | 0867101024962 | 572015302 |

**17B. Utilization of KVK funds during the year 2021-22 (Rs. in lakh)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.**  **No.** | **Particulars** | **Sanctioned** | **Released** | **Expenditure** |
| **A. Recurring Contingencies** | | | | |
| 1 | **Pay & Allowances** | 150.52 |  | 142.33 |
| 2 | **Traveling allowances** | - |  | - |
| 3 | **Contingencies** 1.50 1.38 | | | |
| *A* | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 3.10 |  | 3.10 |
| *B* | POL, repair of vehicles, tractor and equipments | 3.65 |  | 3.65 |
| *C* | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained) | 1.0 |  | 0.94 |
| *D* | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | 0.35 |  | 0.35 |
| *E* | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | 2.93 |  | 2.88 |
| *F* | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | 0.45 | 158.93 | 0.42 |
| *G* | Training of extension functionaries | 0.25 |  | 0.25 |
| *H* | Maintenance of buildings | 0.50 |  | 0.49 |
| *I* | Establishment of Soil, Plant & Water Testing Laboratory | 0.25 |  | 0.24 |
| *J* | Library | 0.5 |  | 0.04 |
| k Extension Activities | | 0.25 |  | 0.20 |
| L Nutri-garden | | 0.25 |  | 0.24 |
| 1 | **Works** | - |  | - |
| 2 | **Equipment including SWTL & Furniture** | 0.77 |  | 0.77 |
| 3 | **Vehicle** (Four wheeler/Two wheeler, please specify) |  |  |  |
| 4 | **Library** (Purchase of assets like books & journals)Equipment | 1.66 |  | 1.66 |
| **REVOLVING FUND** | |  |  |  |
| **GRAND TOTAL (A+B+C)** | | 167.48 |  | 158.94 |

**17C. 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 31st December of each year** |
| January to December 2019 | 11.56 | 12.22 | 14.54 | 9.24 |
| January to December 2020 | 9.24 | 10.37 | 7.71 | 11.90 |
| January to December 2021 | 11.90 | 8.02 | 7.91 | 12.01 |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of the staff** | **Designation** | **Title of the training programme** | **Institute where attended** | **Dates** |
| All scientists and Geetha Kumari | Scientist(Plant Protection)  Scientist(Horticulture)  Scientist(Agronomy)  Scientist(Soil Science)  Programme Assistant (Lab Assistant) | Capacity development programme on VFFS | UAHS , Shivamogga | 14-06-2021 |
| Dr. Prakash Kerure | Scientist(Horticulture) | Doubling the Farmers' Income through Strengthening KVKs with Inclusive Technologies and Innovative Approaches | ICAR-ATARI-Bengaluru | 30-07-2021 |
| Mrs. Kavitha P. Naik | Programme Assistant (Computer) | Webpage designing | UAHS , Shivamogga | 08-07-2021 |
| Dr. Jyothi T.V. | Scientist(Soil Science) | Sustainable integrated cropping and farming system models with special reference to Banana for enhanced income of farmers (Webinar) | ICAR- NRCB, Tiruchanapaali, Tamil Nadu | 07-07-2021 |
| Dr. Prakash Kerure | Scientist(Horticulture) | Strengthening farmers participatory value chain management in onion and garlic | ICAR-DOGR and NIAEM, Hyderabad | 03-05-2021  to 07-05-2021 |
| Dr. Prakash Kerure | Scientist(Horticulture) | Fruit and vegetable processing as Training of trainers for Food Micro and Small Enterprises | CSIR-CFTRI, Mysuru | 7-18 Dec, 21-24 Dec 2020 and 28-29 Dec 2020 |
| Dr. Prakash Kerure | Scientist(Horticulture) | ICAR-IIHR technologies for dissemination through KVKs | IIHR, Bangalore | 17-12-2021  To  18-12-2021 |

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

1. VFFS programme was implemented during the year 2021 at Doddaualarthy , Challakere Tq. for 30 farmers (In progress).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No** | **Date** | **Scientist** | **Title** | **No of participants** |
| 1 | 25-8-2021 | Dr. Prakash Kerure | Orientation to VFFS farmers | 42 |
| 2 | 15-9-2021 | Mrs. Geetha Kumari B.N.  Dr . Rudragouda C.F | * Ballot Box test * Enriched compost making | 31 |
| 3 | 30-9-2021 | Dr . Rudragouda C.F | Organic farming in Pomegranate | 31 |
| 4 | 12-10-2021 | Dr. Jyothi | Soil sample collection in pomegranate plot | 31 |
| 5 | 27-10-2021 | Dr. Prakash Kerure | Pruning techniques in pomegranate | 30 |
| 6 | 10-11-2021 | Dr. S. Onkarappa | Integrated management of thrips in Pomegranate | 40 |
| 7 | 17-11-2021 | Dr. Prakash Kerure | Role of Growth Harmones in Pomegranate cultivation | 30 |
| 8 | 14-01-2022 | Dr. Shreedhar R. | VFFS session on Pre and Post Orchard floor management, and Nutrient application in Pomegranate | 42 |
| 9 | 2-02-2022 | Dr. Rudramuni T | Management of Fruit sucking moth in Pomegranate | 41 |
| 10 | 15-02-2021 | Dr. Jyothi T.V.  Mrs. Geetha Kumari B.N. | Nutrient Management in Pomegranate | 41 |

1. NICRA project was initiated at Yalagatta, Challakere Tq. (In progress).