**KRISHI VIGYAN KENDRA UTTARA KANNADA**

**ANNUAL REPORT- 2018-19**

**(FOR THE PERIOD FROM 01 APRIL 2018 TO 31 MARCH 2019)**

**University of Agricultural Sciences, Dharwad**

**ICAR-Krishi Vigyan Kendra, Uttara Kannada**

**Banavasi Road, Sirsi-581401**

PART I - GENERALINFORMATION ABOUT THE KVK

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| KVK Address | Telephone | | E mail | Web Address |
|  | Office | Fax |  |  |
| Krishi Vigyan Kendra  Banavasi Road,  Sirsi-581 401  District : Uttara Kannada  State : Karnataka | Office  (08384)  228411 | FAX  (08384)  228411 | [kvkuks@gmail.com](mailto:kvkuks@gmail.com)  kvk.Uttarakannada@icar.gov.in | www.kvkuttarkannada.org |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Address | Telephone | | E mail | Web Address |
| Office | Fax |  |  |
| University of Agricultural Sciences,  Krishi Nagar  Dharwad -580 005 | (0836)  2448512,  2447494 | (0836)  2748199 | [deuasd@rediffmail.com](mailto:deuasd@rediffmail.com) | [www.uasd.edu](http://www.uasd.edu) |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Telephone / Contact | | |
|  | Residence | Mobile | Email |
| Dr. Manju M J. | - | 9448495345 | manjumjm@yahoo.co.uk |

1.4. Year of sanction: 2004

**1.5. Staff position as on 31 March 2019**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Sanctioned post** | **Name of the incumbent** | **Designation** | **M/F** | **Discipline** | **Highest Qualification** | **Pay**  **Scale** | **Basic pay** | **Date of joining KVK** | **Permanent**  **/Temporary** | **Category** |
| 1. | Senior Scientist and Head | Dr.Manju M.J. | Senior Scientist and Head | M | Plant Pathology | Ph.D. | 37000-67000 | 9000 | 23.10.17 | P | SC |
| 2. | Scientist | Dr.Roopa S.Patil | Scientist | F | Agri.  Entomology | Ph.D. | 15600-39100 | 7000 | 03.12.08 | P | Others |
| 3. | Scientist | Shri.Shivashenkarmurthy M. | Scientist | M | Agronomy | M.Sc. | 15600-39100 | 6000 | 28.11.11 | P | SC |
| 4. | Scientist | Shri.Venkatesh . L. | Scientist | M | Agroforestry | MSc. | 15600-39100 | 6000 | 05.05.16 | P | SC |
| 5 | Scientist | Dr.Shweta Biradar | Scientist | F | Home Science | Ph.D. | 15600-39100 | 6000 | 17.02.17 | P | Others |
| 6 | Scientist | Dr.Santhosha H.M. | Scientist | M | Horticulture | PhD | 15600-39100 | 6000 | 23.05.17 | P | Others |
| 8 | Scientist | Dr.Ranganath G. J. | Scientist | M | Animal Science | Ph.D. | 15600-39100 | 6000 | 18.07.18 | P | Others |
| 9 | Programme Assistant (Lab) | Shri.Siddappa Kannur | Technical Officer | M | Agro forestry | M.Sc. | 9300-34800 | 4600 | 02.08.013 | P | Others |
| 10 | Programme Assistant (comp) | Smt.Annapurna F. Neeralagi | Technical Officer | F | Computer Science | M.Sc. | 9300-34800 | 4600 | 29.03.10 | P | SC |
| 11 | Farm Manager | Dr. Krishna K. S. | Farm Manager | M | Sericulture | Ph.D. | 9300-34800 | 4200 | 14.02.18 | P | Others |
| 12 | Assistant | Smt.Sumalatha S.P. | Assistant | F |  |  | 16000-29600 | - | 05.09.15 | P | SC |
| 13 | Stenographer | Vacant | - | - | - | - | - | - | - | - | - |
| 14 | Driver 1 | Shri Balappa Taragar | Driver (L.V) | M | - | - | 11600-21000 | - | 03.04.18 | P | Others |
| 15 | Driver 2 | Vacant | - | - | - | - | - | - | - | - |  |
| 16 | S. staff | Shri. Hajarath A Nadaf | Asst.cook.cum .care taker | M |  |  | 10400-16400 | - | - | P | OBC |
| 16 | S. staff 2 | Vacant | - | - | - | - | -- | - | - | - | - |

**1.6. Total land with KVK (in ha): 7 ha**

|  |  |  |
| --- | --- | --- |
| S. No. | Item | Area (ha) |
| 1 | Under Buildings | 0.4 |
| 2. | Under Demonstration Units | 0.4 |
| 3. | Under Crops | 4.65 |
| 4. | Orchard/Agro-forestry | 1.15 |
| 5. | Others(Uncultivable) | 0.4 |

**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.) | Starting Date | Plinth area  (Sq.m) | Status of construction |
| 1. | Administrative  Building | ICAR |  |  |  | 19.12.2017 | 611 | Slab Level |
| 2. | Farmers Hostel | NATP | 2003 | 395.81 | - | - | - | - |
| 3. | Staff Quarters | Nil |  |  |  |  |  |  |
|  | 1 |  |  |  |  |  |  |  |
|  | 2 |  |  |  |  |  |  |  |
|  | 3 |  |  |  |  |  |  |  |
|  | 4 |  |  |  |  |  |  |  |
|  | 5 |  |  |  |  |  |  |  |
|  | 6 |  |  |  |  |  |  |  |
| 4. | Demonstration Units | Nil |  |  |  |  |  |  |
|  | 1 |  |  |  |  |  |  |  |
|  | 2 |  |  |  |  |  |  |  |
|  | 3 |  |  |  |  |  |  |  |
|  | 4 |  |  |  |  |  |  |  |
| 5 | Fencing | Nil |  |  |  |  |  |  |
| 6 | Rain Water harvesting system | Nil |  |  |  |  |  |  |
| 7 | Threshing floor | Nil |  |  |  |  |  |  |
| 8 | Farm godawn | Nil |  |  |  |  |  |  |

B) Vehicles

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Type of vehicle** | **Year of purchase** | **Cost (Rs.)** | **Total kms. Run** | **Present status** |
| Mahindra Bolero | 2017-18 | 800000.00 | 36036 | Good condition |
| Hero Honda passion | 2009-10 | 60000.00 | 846 | Good condition |
| Tractor | 2016-17 | 400000.00 | 0 | Under repair |
| Mini Tractor | 2011-12 | 750000.00 | 198.8 hrs | Good condition |
| Power Tiller | 2015-16 | 255700.00 | 49.75 hrs | Good Condition |
| VST Power Tiller | 2010-11 | 121000.00 | 68.0 hrs | Good Condition |

**C) Equipment & AV aids:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of the equipment** | **Year of purchase** | **Cost (Rs.)** | **Present status** |
| Godrej copier | 30-03-2001 | 80,234 | Good condition |
| Stabilizer | 30-03-2001 | 6,000 | ’’ |
| Portable OHP | 31-03-2001 | 23,920 | ’’ |
| Honda make EBK 2000 generator | 31-03-2001 | 32,800 | ’’ |
| EB 833 Altimeter | 25-02-2002 | 10,990 | ’’ |
| Thomson TV 29’’ monitor | 30-03-2002 | 28,700 | Under repair |
| Thomson CD player | 30-03-2002 | 6,500 | Under repair |
| Sharp VCR | 30-03-2002 | 12,300 | ’’ |
| Computer and accessories | 30-03-2003 | 72,513 | ’’ |
| Public address system | 26-02-2003 | 10,500 | Under repair |
| Nikon Camera | 29-09-2003 | 28,350 | ” |
| Air Conditioner for computer hall | 27-09-2003 | 10,500 | ’’ |
| Photo display frame | 27-09-2003 | 17,000 | ’’ |
| Exhibition showcase | 27-09-2003 | 14,000 | ’’ |
| Scanner | 27-09-2003 | 3,500 | ’’ |
| Sony Digital Camera | 2006 | 13,000 | Under repair |
| Computer HP- with accessories | 31.3.2007 | 36,000 | Good condition |
| Motorized screen | 2008 | 24,000 | ’’ |
| Lexmark Printer | March 2008 | 15,043 | ’’ |
| Printer (4 in one) | 31.3.2009 | 13,950 | ’’ |
| Sony DV cam – Portable camera | Jan-2010 | 1,84,000 | ’’ |
| Computer and accessories-HP DC-7000 series (2 Nos) | April-2010 | 77690 | ’’ |
| Lenovo s10-3s Idea pad | 4.02.2011 | 21600 | ’’ |
| Printer- HP 1007 | 30-03-2011 | 4900 | ’’ |
| Oven - Bajaj | March 2011 | 2,800 | ’’ |
| Pepper Diconing | March 2011 | 18,500 | ’’ |
| Generator 7.5 KVA, KIRLOSKER | January 2012 | 81,057 | ’’ |
| Power Sprayer Single Piston | March 2012 | 28,000 | ’’ |
| Digital Cameras Canon A 810 | September 2012 | 5,995 | ’’  ’’ |
| Canon SX 150 | September 2012 | 9,995 |  |
| Digital Cameras Canon A 810  Canon SX 150 | December 2012  January 2013 | 4,900  4,900 | ’’  ’’ |
| UPS V-Guard | January 2013 | 6,540 | ’’ |
| Grinder | January 2013 | 4,500 | ’’ |
| Coco Butter Extractor | January 2013 | 44,885 | ’’ |
| Ground nut Stripper (3) | January 2013 | 3,350 | ’’ |
| Hand Refractometer | January 2013 | 3,807 | ’’ |
| Banjo- Power operated groundnut stripper | March 2013 | 19474 | " |
| HP Laptop | Jan-2014 | 52000 | " |
| Sugarcane eye bud chipper | March 2014 | 4000 | " |
| Power Safe UPS | March-2014 | 2250 | " |
| Printer | July-2014 | 18500 | " |
| Projector | July-2014 | 45000 | " |
| Digital copier | July-2014 | 162518 | " |
| UPS 650 VA | September 2014 | 1600 | " |
| Iball baton Model | December - 2014 | 2150 | " |
| UPS 1.5 KV | January 2015 | 31122 | " |
| Portable bag sticher | December 2014 | 4800 | " |
| Biometric | January 2015 | 14533 | " |
| Laser Printer | January 2015 | 8600 | " |
| Laser Printer | March 2015 | 8600 | " |
| UPS 650 VA | March 2015 | 2250 | " |
| KVA Stabilizer | 2016 | 4537 | Good condition |
| LG Air conditioners | 2016 | 34253 | Good condition |
| V Guard Stabilizer | 2016 | 2000 | Good condition |
| Sukum 2kva 24v UPS | 2016 | 15,000 | Good condition |
| 150AH Hi-Power tabular battery | 2016 | 13,800 | Good condition |
| Logitech R400 Presenter | 2016 | 4400 | Good condition |
| 16 GB H.P. Pen drive | 2017 | 500 | Good condition |
| Pocket projector | 2017 | 42937 | Good condition |
| SMPS Unit | 2017 | 11450 | Good condition |
| 1.0 T.B. Seagate Hard disc | 2017 | 49000 | Good condition |
| HP LaserJet 128FN Printer | 2017 | 17650 | Good condition |
| Canon lide 120 scanner | 2017 | 4500 | Good condition |
| Double Stevenson screen box | 2017 | 21250 | Good condition |
| Exide MRed 700 L | 2017 | 5900 | Good condition |
| Acer Veriton Computer | 2017 | 1,19,100 | Good condition |
| Shedder | 2017 | 49,820 | Good condition |
| Exide XP 800 Battery | 2017 | 5,900 | Good condition |
| Bolero Vehicle  (SLE 2WD 7 SEATER AC & PS BS45K) | 12.05.2017 | 6,61,543 | Good condition |
| External DVD writer  I Ball Multimedia Speaker | 30.06.2017 | 2,500 | Good condition |
| 1000 GB Seagate External Hard disk | 30.06.2017 | 4,900 | Good condition |
| HP Laptop i 7 | 17.01.2018 | 74,180 | Good condition |
| HP Laptop i 7 | 17.01.2018 | 74,180 | Good condition |
| HP Laptop i 7 | 17.01.2018 | 74,180 | Good condition |
| HP Laptop i 7 | 17.01.2018 | 74,180 | Good condition |
| 32 GB pen drive | 31.01.2018 | 950 | Good condition |
| HP Laserjet Printer  (pro MFP m227sdn) | 05.02.2018 | 25,390 | Good condition |
| HP Laserjet Printer  (pro MFP m227sdn) | 05.02.2018 | 25,390 | Good condition |
| 1 TB Seagat External Hand disk | 16.02.2018 | 3,898 | Good condition |
| HP All in one Laserjet Printer | 27.02.2018 | 15,500 | Good condition |
| RICOH laser printer  (Model SPIII) | 05.03.2018 | 4,799 | Good condition |
| Automatic Macro (250 ml) Black Digestion System (Brand: Tulin equipments) | 18.03.2018 | 1,08,500 | Good condition |
| EDSON Printer  (380 colour ink tank printer (print/scan/copy) | 19.03.2018 | 11,600 | Good condition  (GKMS) |
| Automatic Distillation System,  (Brand: Tulin equipments) | 20.03.2018 | 1,88,550 | Good condition |
| Steam Sterilizer (Horizontal Autoclave)  (Band: Heat control) | 26.03.2018 | 4,22,440 | Good condition |
| HP LaserJet Printer  (Pro MEP M2275dn) | 27.03.2018 | 24,800 | Good condition |
| Mechanical Shakar (HSN # 85143090) (sl. No-LI-17-221) | 27.03.2018 | 49,880 | Good condition |
| HP BR 106 TX Laptop | 28.03.2018 | 58,528 | Good condition  (GKMS) |
| HP Laptop | 28.03.2018 | 77,526 | Good condition |
| Laminar Air flow Chamber | 31.03.2018 | 90,000 | Good condition |
| Digital Balance | 31.03.2018 | 81,479 | Good condition |
| 1 Tb hard Disk | 28.06.2018 | 3363 | Good condition |
| Height measuring rod and Weighing machine | 23.08.2018 | 4900 | Good condition |
| Nikon Camera with lens | 15.10.2018 | 35488 | Good condition |
| V Guard Ceiling Fan | 13.10.2018 | 1295 | Good condition |
| HP laser Printer | 30.01.2019 | 15500 | Good condition |
| PH Meter | 06.02.2018 | 46988 | Good condition |
| Refrigerator | 14.02.2019 | 22850 | Good condition |
| Nikon D3 400 DSLR camera with lens | 22.02.2019 | 40775 | Good condition |
| HP laser Printer | 30.01.2019 | 15500 | Good condition |
| Wooden Revolving Chair and Peacock Chair | 15.03.2019 | 35000 | Good condition |
| Wall Fan | 16.03.2019 | 1850 | Good condition |

**1.8. Details of SAC meeting conducted during 2018-19**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date** | **Number of Participants** | **Salient Recommendations** | **Action taken** | **Remarks, if any** |
| 18.06.2018 | 28 | Each scientist should publish at least one agriculture related publication every month for the benefit of farming community | Details of publications during the year:  Popular Articles : 14  Review Papers : 06  Folders : 10 |  |
|  |  | Technical backstopping should be provided to the FPOs in the district | Technical back stopping to the FPOs:  1. **Madhukeshwar Horticulture Producers Company, Andagi, Banavasi** **:**   * FLDs on ICM in ginger, pineapple and banana were taken up in 1 ha each under CHMID Scheme of Dept. of Horticulture * Interstate Tour for 50 FPO members was organized to Tamilnadu and Mysore. * Trainings and demonstrations were organized.   **2. Dhan Foundations Sirsi:**   * FLD on ICM in paddy * Diagnostic visits * Collaborative extension activities   **3.Madhukeshwar Bhatta Utpadakar Company:**   * Diagnostic visits * Collaborative extension activities   4. Pragatimitra   * Diagnostic visits * Collaborative extension activities |  |
|  |  | Impact analysis of activities conducted by KVK is to be carried out, if necessary PG students may be involved to take up the study. | Request submitted to DE, UASD |  |
|  |  | Organize more training programmes on grafting techniques and document them | Training programme on Grafting techniques in plantation crops was organized on 25.08.2018, 30 farmers/farm women participated. |  |
|  |  | KVK should form Paddy Green Force in the same line with KVK Mallappuram Kerala. If necessary KVK Team may visit the Mallapuram KVK | Submitted proposal for budget |  |
|  |  | Success story on impact of KMP-105 introduction in the district should be documented and upload it to the KVK Portal and KVK Website | The information on success of KMP-105 is uploaded to the KVK Portal. |  |
|  |  | Quality breed of livestock should be included in the dairy unit and make the dairy unit a model for the farmers. | Two cows of HF Cross breed are added to the dairy unit. |  |
|  |  | Send the SAC agenda items to the SAC members through email. | Action will be taken during forth coming SAC 19-20. |  |
|  |  | Activity calendar of the KVK should be sent to line departments and other farmer groups. | Activity calendar for Kharif activites are sent to line departments. |  |
|  |  | To address the labour problem in arecanut harvesting formulate an OFT. | Training cum demonstration on mechanized harvesting of arecanut is conducted at Puttanamane on 31.01.2019 . 20 participants were present. |  |
|  |  | Provide the information on banned chemicals and pesticides to the farming community with the help of KSDA | The information on banned chemicals and pesticides are provided to pesticide and fertilizer dealers, Dept. of Agriculture and Horticulture. |  |
|  |  | Organize programmes on value addition of cashew apple and management of fruit fly in mango. | Value addition of cashew apply will be taken up in coming days.  Diagnostic field Visits were conducted to the mango fruit fly affected plots in Joida and Haliyal talukas along with officials of Horticulture Dept. Knowledge on management of fruitfly imparted to the farmers. |  |
|  |  | Most of the KVK activities are concentrated around Sirsi, Siddapur, Yellapur and Mundagod talukas. It is suggested to extended the activities to other talukas of the district and invite the farmers of coastal talukas to SAC meeting. | KVK has organized many extension activities in Bhatkal(FLD, Seminar, DV, FV), Haliyal (Krishi Abhiyan, DV, FV, Guest Lecutres), Yellapur(FLD, FV, DV, Guest Lecture) , Ankola(FLD, CFLD, DV, FV, Krishi Abhiyan, Guest lectures) and Kumta(FLD, CFLD, DV, FV, Krishi Abhiyan, Guest lectures) , Joida talukas also along with Sirsi,Siddapur, Yellapur and Mundagod talukas. |  |
|  |  | Organize the programmes on management of foot and mouth disease in collaboration with Dept of AHVS | 6 guest lectures , 02 training programmes were organized and information on Foot and Mouth disease management.  KVK co-organized Cattle Exhibition on 10.12.2018 at Dasanakoppa village in collaboration with AHVS, Sirsi. |  |
|  |  | Organize programmes in collaboration with Fisheries department. | Farmers are encouraged to utilize the farm ponds for fish culture |  |
|  |  | Organize SAC before the Action Plan meeting and before onset of monsoon. | - |  |
|  |  | Organize programmes on value addition of bamboo. | Programmes will be planned in 2019-20 |  |
|  |  | Organize training programmes to extension personnel, interaction with scientists are to be organized. The pretest and post test evaluation are to be taken up. | 2 programmes for Extension personnel is organized. |  |
|  |  | There is ample opportunity for apiculture in the district. KVK should develop apiculture demonstration unit and organize trainings. | Organized ASCI Sponsored skill Development Training programme on Bee Keeper for 25 days (11.2.2019 to 7.3.2019) for 20 farmers/farm women.  Two bee boxes with colonies are established in the KVK premises. |  |

**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 | Rainfed area : Paddy- Pulses/Ground nut, Maize- Pulses, Areca nut and Coconut based multi cropping system  Irrigation: Paddy –Paddy, Sugarcane, Paddy –Maize, Areca nut and Coconut based multi cropping system |
| 2 | Non Timber Forest Produce, Fisheries and Dairy |

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

|  |  |  |
| --- | --- | --- |
| S. No | Agro-climatic Zone | Characteristics |
| 1 | Zone – 9 | Hill Zone  Rainfall : 2500 mm  Soils : sandy loam, laterite, clay loam & medium black  Major crops : Paddy, Maize & pulses cotton, areca nut based mixed crops of spices. |
| 2 | Zone – 10 | Coastal Zone  Rainfall : 3500 mm.  Soils : Sandy soils, laterite, costal alluvial, sandy loam.  Major crops :  paddy, groundnut, pulses and arecanut based cropping system. |

|  |  |  |
| --- | --- | --- |
| S. No | Agro ecological situation | Characteristics |
| 1 | Coastal ecosystem | High to very high rainfall more than 3500 mm, hot and humidity climate with highly leached sandy soils with low & high pH (Sodium salts). |
| 2 | Hill zone ecosystem | Rainfall ranges from 2500 to 3000 mm, with valleys and low hills. Major area covered is forest and dominated by laterite soils. |
| 3 | Transitional ecosystem | Rainfall ranges from 800-1500 mm. dominated by plains and rolling hills. Soils vary from red loam to medium black soils. |

**2.3 Soil type/s**

|  |  |  |  |
| --- | --- | --- | --- |
| S. No | Soil type | Characteristics | Area in ha |
| 1 | Lateritic soils | Deep, well drained to excessively drained, yellowish red to dark reddish brown, sandy loam to sandy clay and clay surface soils and clay subsoil’s, moderate to severely eroded with surface crusting. | 36332 |
| 2 | Coastal laterite soil | Deep, well drained to excessively drained, dark brown to yellowish red and dark reddish brown, sandy clay loam to clay loam surface soils and sandy clay to clay subsurface soils, moderately to severely eroded with surface crusting. |  |
| 3 | Coastal alluvial soils | Deep, well drained and poorly drained, pale brown to dark yellowish brown, sand, sandy loam to loam surface soils and sand to loam subsurface soils. |  |
| 4 | Red gravely clay soils | Deep and shallow, well drained to excessively drained, yellowish brown dark red to reddish brown, gravely sandy loam to sandy clay loam and loamy sand surface soils and no calcareous cracking clay to silty clay soils, moderately to severely eroded. | 144589 |
| 5 | Red clay soils | Deep to moderately deep and hallow, well drained, brown to yellowish red to reddish brown, sandy loam and sandy clay to clay subsurface soils, moderately to severely eroded. | 552877 |
| 6 | Forest soils (Brown forest soil) | Deep to moderately, Deep, well drained to excessively drained, dark brown to dark yellowish brown and black sandy clay to sandy clay loam, humus rich surface soils and clay to sandy clay, gravely sandy clay to clay sub surface soils, moderately to severely eroded. | 291679 |
| 7 | Medium black soils | Shallow, well drained grey to dark grey and brown clay loam and silty clay loam. |  |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S. No | **Crop** | **Area (ha)** | **Production (tons)** | **Productivity (kg /ha)** |
| 1 | Paddy | 66147 | 188895 | 3006 |
| 2 | Maize | 4576 | 24692 | 5680 |
| 3 | Blackgram | 3844 | 204 | 555 |
| 4 | Greengram | 451 | 106 | 244 |
| 5 | Groundnut | 1950 | 3065 | 1655 |
| 6 | Cotton (Bales) | 960 | 1652 | 308 |
| 7 | Sugarcane | 6519 | 693621 | 112 |
| 8 | Arecanut | 17912 | 43864.88 | 2450 |
| 9 | Coconut (lakh nuts) | 7784 | 1365 | 0.18 (lakh nuts) |
| 10 | Blackpepper | 774 | 325 | 420 |
| 12 | Ginger | 372 | 9672 | 2600 |
| 13 | Cardamom | 528 | 132 | 250 |
| 14 | Cashew | 3380 | 7364 | 2182 |
| 15 | Banana | 2911 | 90297 | 31020 |
| 16 | Mango | 2514 | 46540 | 18510 |
| 17 | Pineapple | 441 | 32820 | 74420 |

\* Source : Statistical Dept, Karwar & DoH, Sirsi

2.5. Weather data

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Month | Rainfall (mm) | Temperature 0 C | | Relative Humidity (%) |
| Maximum | Minimum |
| January | 0.4 | 30.9 | 12.8 | 72.7 |
| February | 0.3 | 32.7 | 13.5 | 67.9 |
| March | 16 | 34.9 | 16.6 | 131.5 |
| April | 20 | 34.6 | 20.5 | 133.0 |
| May | 149 | 32.8 | 21.1 | 146.0 |
| June | 759 | 28.5 | 21.4 | 161.0 |
| July | 1025 | 26.3 | 21.0 | 173.0 |
| August | 778 | 25.7 | 20.7 | 174.0 |
| September | 95 | 29.0 | 20.2 | 163.0 |
| October | 98 | 31.3 | 19.3 | 146.3 |
| Nobember | 11 | 31.1 | 18.3 | 139.5 |
| December | 0 | 30.4 | 15.2 | 143.2 |

Sources :

\* Rainfall Data : KSDA Karwar

\* Temperature & RH : AAS Unit, Sirsi

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Category** | **Population** | **Production** | **Productivity** |
| **Cattle** | | | |
| *Crossbred* | 47167 | 59679 thousand ltrs |  |
| *Indigenous* | 289788 |  |
| **Buffalo** | 87816 |  |
| **Sheep** | | | |
| Crossbred | 234 |  |  |
| *Indigenous* | 4549 | 2491 tonnes (Meat) |  |
| **Goats** | 8961 |  |
| **Pigs** |  |  |  |
| *Crossbred* | 469 |  |  |
| *Indigenous* | 1022 |  |  |
| **Rabbits** | 508 |  |  |
| **Poultry** | | | |
| Hens | 537037 | 287.31 lakh eggs |  |
| *Desi* |  |  |  |
| *Improved* |  |  |  |
| Ducks |  |  |  |
| Turkey and others |  |  |  |

\*Uttara Kannada at a Glance 2013-14 by Statistical Department , Karwar

|  |  |  |  |
| --- | --- | --- | --- |
| **Category** | **Area** | **Production** | **Productivity** |
| Fish |  | 109818.28 Tones |  |
| *Marine* |  |  |  |
| *Inland* |  |  |  |
| Prawn |  |  |  |
| Scampi |  |  |  |
| Shrimp |  |  |  |

\*Uttara Kannada at a Glance 2015-16 by Statistical Department, Karwar

* 1. District profile has been **Updated** for 2018-19 : **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** | **Major crops & enterprises** | **Major problem identified** | **Identified Thrust Areas** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | Sirsi | Sirsi | Badangod Kupagadde, Malangi, Andagi, Hebbatti,  Kalakaradi,  Bankanala,  Ajjarani  Kandaragi  Kiruvatti  Kayagudde  Gonnur  Kannalli  Honnegadde  Koppa  Halasinkai  Gotagitota  Ekkambi  Mastigadde  Sonda  Lingadakona  Neernalli  Hulemane  Onikeri  Kanagod  Ugremane  Javalagundi  Hebballi  Kenchagadde  Kansor  Ajjibala  Horle  Jaganalli  Bisalakoppa  Bapat  Mavinakoppa  Jaddimane  Sannakki  Balegadde  Kesinamane  Sambemane  Kubarkuli | 3  1  2  8  3  2  1  5  1  1  1  1  1  1  3  1  1  3  1  2  1  5  1  4  4  2  2  1  5  2  4  2  2  3  3  3  1  1  1  1  1  1 | Paddy, Arecanut, Black pepper, Pineapple, Ginger, Dairy, Agroforestry | **Paddy:** Poor soil, insect pests (stem boer, ear head bug,BPH) Blast disease  **Arecanut:** Low yield, un scientific drainage, nutdrop and splitting, kole roga  **Black pepper**: Sucking insects, foot rot disease, berry drop, micronutrient deficiency alternate non availability of pepper standards other than arecanut  **Pineapple :** Heart rot disease  **Ginger:** Rhizome rot disease, shoot borer  **Dairy :** Repeat breeding, anestrous, fodder scarcity during summer  **Agroforestry:** Under utilized bettalands, loss of bio-diversity  **Fodder Scarcity:**  **Poor Nutrition** | Integrated Crop management  Integrated Crop management  Integrated Crop management , MPTs as pepper standards  Integrated Disease Management  Integrated Disease Management  Use of advanced PG protocol and CIDR Synch technology  Silvi Pastoral System, NTFPs and TBOs  Enrichment of dry fodder, Introduction of COFS-31 and Stylo Hamata grasses  Promotion of Nutri farms |
| 2 | Mundagod | Mundagod | Malagi Hanumanti  Haraganalli  Kalakoppa | 6  2  4  4 | Paddy, Maize, Blackgram  Greengram  Sugarcane  Arecanut  Black pepper  Dairy | **Paddy:** Poor soil, insect pests (stem boer, ear head bug,BPH) Blast disease  **Maize :** Rootrot,Weed, low yield, Fall army worm  **Arecanut:** Low yield, un scientific drainage, nutdrop and splitting, kole roga, weeds& soil erosion  **Fodder Scarcity** | ICM in Paddy  ICM in maize with Special emphasis on weed management  Introduction of mulch crop, ICM in arecanut  Enrichment of dry fodder, Introduction of COFS-31 and Stylo Hamata grasses |
| 3 | Yellapur | Manchikeri | Kanakodlu  Heggapur  Belagundli, Bidralli, Bharani | 8  1  1  1  1 | Arecanut  Black pepper  Paddy  Cotton  Dairy | **Arecanut:** Low yield, un scientific drainage, nutdrop and splitting, kole roga, weeds& soil erosion  **Cotton:** Sucking pests, poor yield, boll & square drop, leaf reddening, black arm  **Black pepper:** Sucking insects, foot rot disease, berry drop, micronutrient deficiency | Integrated Crop Management  Integrated Pest Management  Integrated Crop Management, Ecofriendly management of sucking insects |
| 4 | Kumta | Gokarna | Gokarna  Saraguppa,  Devanalli | 2  1  1 | Arecanut,  Coconut,  Cashew,  Dairy | **Dairy:** Repeat breeding, anestrous, fodder scarcity during summer | Use of advanced PG protocol and CIDR Synch technology |
| 5 | Ankola | Ankola | Tenkanakeri,  Sakalabena | 1  2 | Cashew, Arecanut, Coconut, Groundnut | **Cashew :** CSRB, TMB  **Coconut** : RSW, nutdrop  **Groundnut:** Insect pest, tikka disease, soil acidity, low yeild | Integrated Pest Management  Integrated Crop Management |
| 6 | Bhatkal | Mavalli | Mallari | 1 | Jasmine | **Jasmine :** Leaf spot, eripphyd mite, low yield | Integrated Crop Management |

2.9 Priority thrust areas

|  |  |
| --- | --- |
| S. No | Thrust area |
| 1  2  3  4  5  6  7  8  9  10  11 | Integrated Crop Management  Integrated Nutrient Management  Integrated Pest Management  Farm Mechanization  Integrated Disease Management  Integrated Weed Management  Soil and Water conservation  Integrated Farming system  Income Generating activities  Nutrition  Agro forestry |

**PART III - TECHNICAL ACHIEVEMENTS (2018-19)**

**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** |
| 03 | 03 | 21 | 18 | 16 | 16 | 121 | 116 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Training** | | | | **Extension Programmes** | | | |
| **3** | | | | **4** | | | |
| **Courses (No.)** | | **Participants (No.)** | | **Programmes (No.)** | | **Participants (No.)** | |
| **Target** | **Achievement** | **Target** | **Achievement** | **Target** | **Achievement** | **Target** | **Achievement** |
| 50 | 58 | 1618 | 2291 | 778 | 853 | 5861 | 119734 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Seed Production (Q)** | | **Planting material (Nos.)** | |
| **5** | | **6** | |
| **Target** | **Achievement** | **Target** | **Achievement** |
| 0 | 136 q | 17000 | 25248 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Livestock, poultry strains and fingerlings (No.)** | | **Bio-products (Kg)** | |
| **7** | | **8** | |
| **Target** | **Achievement** | **Target** | **Achievement** |
| 0 | 0 | 5 kg (IBA) | 1.05 kg |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**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** | |
| 01 | Integrated Crop Management | Paddy | Poor soil fertility, Deficiency of nutrients, Weeds, Incidence of stem borer, leaf folder, ear head bug, BPH and blast leading to low yield | - | Advanced Production Technologies for Profitable Paddy Cultivation | 05 | 0 | 0 | FV : 32  Farmer Scientist Interaction : 4 | Sunhemp  /Diancha: 1  Paddy : 2.5 | - | - | **No.** | **Kg** |
| Maize | Low yield, poor fertility, weeds, stem borer, Leaf Blight | - | ICM in Maize with Special Emphasis on Weed and Nutrient Management | 01 | 0 | 0 | FV: 03  Method demo:01 | - | - | - | - | - |
| Watermelon | Low yield, mal formed fruits, poor pollination, bud necrosis, nutrient deficiency, sucking pests |  | ICM in watermelon | 02 | 0 | 0 | FV:06 | - | - | - | - | - |
| Black pepper | Foot rot disease, Berry drop, Sucking insect, Micronutrient deficiency |  | ICM in blackpepper | 03 |  |  | FV:14  Method Demo:02 | - | - | - | - | - |
| Jasmine | Leaf spot, Eriophyid Mites, no pruning, improper nutrient management, Low yield |  | ICM in Jasmine | 02 | 0 | 0 | FV:06  Method demo: 02 | - | - | - | - | - |
| 02 | Weed Management | Arecanut | Soil erosion, Weed menace, High labour cost, Low yield | Evaluation of suitable mulch material for arecanut plantation | - | 03 | 0 | 0 | FV:16 | - | - | - | - | - |
| 03 | Pest Management | Black pepper | Sucking pests | Eco friendly management of sucking insects in blackpepper | - |  |  |  |  |  |  |  | Neem soap  Pongamia soap.  Neem oil | 10 kg  10 kg  10 l |
| *Bt*. cotton | Low yield, Sucking insects, Boll and square drop, Black arm, leaf reddening | - | IPM in *Bt*. Cotton | 02 | - | - | FV: 02 | Bhendi: 0.025 | - | - | - | - |
| Cashew | Low yield, Tea Mosquito Bug(TMB) & Cashew Stem & Root Borer (CSRB) | - | IPM in Cashew | 01 | - | - | FV:01 | - | - | - | - | - |
| 04 | Fodder Production | Fodder Trees | Green Fodder Scarcity, mproper utilization of Betta lands and loss of species diversity | - | Efficient utilization of bettalands through silvipastoral system for sustainable land use | 0 | - | - | FV:02 | - | Fodder trees& legume grasses: 750 | - | - | - |
| COFS-31 & Stylo grass | Poor nutrition supplement leading to low conception rate, Anestrus, RB and other health problems | - | Popularization of multicut sorghum and Stylo grasses | 01 | - | - | FV:6 | COFS-31: 0.135  Stylosanthus haemata: 0.135 | - | - | - | - |
| Dry areca sheath | Scarcity of fodder, High cost of feed, wastage of locally available fodder. | - | Demonstration on feeding of enriched dry areca sheath for cows | 01 | - | - | FV: 03 | - | - | - | - | - |
| 05 | Livestock production and Management | Livestock | Poor Nutrition supplement, Deficiency of major minerals, Low conception rate leading to repeat breeding |  | Demonstration of modified PG protocol in RB cows | 04 | 01 | 01 | FV: 28 | - | - | - | - | - |
| Livestock | Poor Nutrition supplement, Deficiency of major minerals, absence of heat signs, Loss of milk yield |  | Demonstration of CIDR synch in anoestrus animals | 04 | 01 | 01 | FV:18 | - | - | - | - | - |
| 06 | Agroforestry | Tree Borne Oilseeds | Improper utilization of Betta lands and loss of species diversity |  | Efficient utilization of betta lands through cultivation of TBO’s for sustainable land use (Continued ) | 0 | 0 | 0 | FV: 02 | - | Various NTFPs: 1000 | - | - | - |
| Non Timber Forest Produce | Improper utilization of Betta lands and loss of species diversity |  | Efficient utilization of betta lands through cultivation of NTFPs for sustainable land use (Continued ) | 0 | 0 | 0 | FV:02 | - | Various TBOs: 1000 | - | - | - |
| Sheme bamboo | Improper utilization of farm bunds, Low income, Poor soil fertility, soil erosion |  | Cultivation of *Dendrocalamus stocksii* (Sheme Bamboo) on bunds/boundaries of farm land : A additional source to the farm income | 0 | 0 | 0 | FV:03 | - | Sheme bamboo:300 | - | - | - |
|  |  | MPTs | Lack of alternate fast growing native MPTs |  |  | 0 | 0 | 0 | FV:05 | - | Black pepper:500 | - | - | - |
| 7 | Nutritional Security | Nutri Farms | Poor nutritional status of the adolescents and lack of knowledge regarding importance of nutrients |  | Nutritional Garden for Schools and farming community | 0 | 0 | 0 | FV: 05 | 0.1775 | - | - | Neem oil | 3 litre |
| 8 | Enterprise Development | EDP - Up scaling the marketing of Garments | Low Marketing of Garments due to poor finishing and lack of surface enrichment | - | - | - | 01 | - | - | - | - | - | - | - |

**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** | Advanced Production Technologies for Profitable Paddy Cultivation | UAS, Dharwad | Paddy | - | 1 | 05 | Field Day : 03 |
| **2** | ICM in Maize with Special Emphasis on Weed and Nutrient Management | UAS, Dharwad | Maize | - | 1 | 01 | - |
| **3** | ICM in watermelon | UHS, Bagalkot | Watermelon | - | 1 | 02 | - |
| **4** | IPM in *Bt.* Cotton | UAS, Dharwad | Bt. Cotton | - | 1 | 02 | - |
| **5** | IPM in Cashew | DCR, Puttur | Cashew | - | 1 | 02 | - |
| **6** | ICM in Black pepper | IISR and KAU | Black pepper | - | 1 | 04 | Field Day:01 |
| **7** | ICM in Jasmine | UHS, Bagalkot | Jasmine | - | 1 | 02 | Field Day: 01 |
| **8** | Efficient utilization of betta lands through cultivation of TBO’s for sustainable land use (Continued ) | KAU, Thrissur | TBOs |  | 1 | 0 | - |
| **9** | Efficient utilization of betta lands through cultivation of NTFPs for sustainable land use (Continued ) | KAU, Thrissur | NTFPs | - | 1 | 0 | - |
| **10** | Cultivation of *Dendrocalamus stocksii* (Sheme Bamboo) on bunds/boundaries of farm land : A additional source to the farm income | UAS, Dharwad & BSKKV,Dapoli | Sheme bamboo | -- | 1 | 0 | World Bamboo Day: 01 |
| **11** | Efficient utilization of bettalands through silvipastoral system for sustainable land use | KAU, Thrissur | Silvipastoral system | - | 1 | 0 | - |
| **12** | Nutritional Garden for Schools and farming community | - | Nutritional garden | - | 1 |  | - |
| **13** | Demonstration of modified PG protocol in RB cows | KVAFSU, Bidar | Dairy | - | 1 | 4 | - |
| **14** | Demonstration of CIDR synch in anoestrus animals | KVAFSU, Bidar | Dairy | - | 1 | 4 | - |
| **15** | Popularization of multicut sorghum and Stylo grasses | NIANP, Bangalore | Multicut sorghum and Stylo grasses | - | 1 | 01 | - |
| **16** | Demonstration on feeding of enriched dry areca sheath for cows | NIANP, Bangalore | Dry areca sheath | - | 1 | 01 | - |
| **17** | Evaluation of suitable mulch material for arecanut plantation | IIHR Bengaluru, UHS, Bagalkot | Cowpea, mucuna, stylo grass | 1 | - | 0 | - |
| **18** | Evaluation of Multi Purpose Trees (MPT) as pepper standards (Continued) | IIHR Bengaluru, KAU, Thrissur | MPTs | 1 | - | 0 | - |
| **19** | Eco friendly management of sucking insects in blackpepper | IIHR, Bengaluru & IISR, Calicut | Black pepper | 1 | - | 0 | - |

**3.B2 contd..**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **No. of farmers covered** | | | | | | | | | | | | | | | |
|  | **OFT** | | | | **FLD** | | | | **Training** | | | | **Others (Specify)** | | | |
| **Sl.No** | **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** | **0** | **0** | **0** | **10** | **0** | **0** | **0** | **62** | **4** | **10** | **0** | **111** | **46** | **17** | **4** |
| **2** | **0** | **0** | **0** | **0** | **8** | **2** | **0** | **0** | **10** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **3** | **0** | **0** | **0** | **0** | **5** | **0** | **0** | **0** | **13** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **4** | **0** | **0** | **0** | **0** | **5** | **0** | **0** | **0** | **15** | **01** | **0** | **0** | **0** | **0** | **0** | **0** |
| **5** | **0** | **0** | **0** | **0** | **8** | **2** | **0** | **0** | **13** | **6** | **0** | **0** | **0** | **0** | **0** | **0** |
| **6** | **0** | **0** | **0** | **0** | **5** | **0** | **0** | **0** | **117** | **12** | **21** | **11** | **43** | **50** | **10** | **0** |
| **7** | **0** | **0** | **0** | **0** | **2** | **3** | **0** | **0** | **32** | **26** | **10** | **8** | **4** | **8** | **2** | **8** |
| **8** | **0** | **0** | **0** | **0** | **10** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **9** | **0** | **0** | **0** | **0** | **10** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **10** | **0** | **0** | **0** | **0** | **3** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **20** | **12** | **0** | **0** |
| **11** | **0** | **0** | **0** | **0** | **5** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **12** | **0** | **0** | **0** | **0** | **0** | **10** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **13** | **0** | **0** | **0** | **0** | **14** | **0** | **0** | **0** | **155** | **41** | **25** | **11** | **0** | **0** | **0** | **0** |
| **14** | **0** | **0** | **0** | **0** | **10** | **0** | **0** | **0** | **155** | **41** | **25** | **11** | **0** | **0** | **0** | **0** |
| **15** | **0** | **0** | **0** | **0** | **9** | **0** | **0** | **0** | **19** | **6** | **7** | **2** | **0** | **0** | **0** | **0** |
| **16** | **5** | **0** | **0** | **0** | **09** | **0** | **0** | **0** | **19** | **6** | **7** | **2** | **0** | **0** | **0** | **0** |
| **17** | **5** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **18** | **5** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **19** | **5** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

**PART IV - On Farm Trial (2018-19)**

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

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Thematic areas** | **Cereals** | **Oilseeds** | **Pulses** | **Commercial Crops** | **Vegetables** | **Fruits** | **Flower** | **Plantation crops** | **Tuber Crops** | **TOTAL** |
| Integrated Nutrient Management |  |  |  |  |  |  |  |  |  |  |
| Varietal Evaluation |  |  |  |  |  |  |  |  |  |  |
| Integrated Pest Management |  |  |  | 01 |  |  |  |  |  | 01 |
| Integrated Crop Management |  |  |  |  |  |  |  |  |  |  |
| Integrated Disease Management |  |  |  |  |  |  |  |  |  |  |
| Small Scale Income Generation Enterprises |  |  |  |  |  |  |  |  |  |  |
| Weed Management |  |  |  |  |  |  |  | 01 |  | 01 |
| Resource Conservation Technology |  |  |  |  |  |  |  |  |  |  |
| Farm Machineries |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming System |  |  |  | 01 |  |  |  |  |  | 01 |
| Seed / Plant production |  |  |  |  |  |  |  |  |  |  |
| Value addition |  |  |  |  |  |  |  |  |  |  |
| Drudgery Reduction |  |  |  |  |  |  |  |  |  |  |
| Storage Technique |  |  |  |  |  |  |  |  |  |  |
| Mushroom cultivation |  |  |  |  |  |  |  |  |  |  |
| **Total** |  |  |  | **02** |  |  |  | **01** |  | **03** |

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

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

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

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

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

| **Thematic areas** | **Crop** | **Name of the technology assessed** | **No. of trials** | **Number of farmers** | **Area in ha (Per trial covering all the Technological Options)** |
| --- | --- | --- | --- | --- | --- |
| Integrated Nutrient Management |  |  |  |  |  |
|  |  |  |  |  |
| Varietal Evaluation |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Pest Management | Black Pepper | Eco friendly management of sucking insects in blackpepper | 05 | 05 | 0.1 |
|  |  |  |  |  |
| Integrated Crop Management |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Disease Management |  |  |  |  |  |
|  |  |  |  |  |
| Small Scale Income Generation Enterprises |  |  |  |  |  |
|  |  |  |  |  |
| Weed Management | Arecanut | Evaluation of suitable mulch material for arecanut plantation | 08 | 08 | 0.2 |
|  |  |  |  |  |
| Resource Conservation Technology |  |  |  |  |  |
|  |  |  |  |  |
| Farm Machineries |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Farming System | MPTs | Evaluation of Multi Purpose Trees (MPT) as pepper standards (Continued) | 05 | 05 | 0.1 |
|  |  |  |  |  |
| Seed / Plant production |  |  |  |  |  |
|  |  |  |  |  |
| Value addition |  |  |  |  |  |
|  |  |  |  |  |
| Drudgery Reduction |  |  |  |  |  |
|  |  |  |  |  |
| Storage Technique |  |  |  |  |  |
|  |  |  |  |  |
| Mushroom cultivation |  |  |  |  |  |
|  |  |  |  |  |
| **Total** | **03** |  | **21** | **21** | **0.5** |

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

**4.B.3. Technologies assessed under Livestock and other enterprises : NIL**

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

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

**Results of On Farm Trial**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop/ enterprise | Farming situation | Problem definition | Title of OFT | No. of  trials | Technology Assessed | Source of technology | Yield | Unit of yield | Observations other than yield | Net Return Rs. / unit | BC Ratio | Remarks if any |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Arecanut | Irrigated | Weed Menace | Evaluation of suitable mulch material for arecanut plantation | 08 | T.O.1: Litter | ITK | 32.93 | q/ha | - | 6,88,375 | 2.88 |  |
| T.O.2: Mucuna Cultivation | IIHR | 34.5 | q/ha | Mucuna Yield: 5.25 q/ha | 7,56,234 | 3.02 |  |
| T.O.3: Cowpea | IIHR | 34.25 | q/ha | Cowpea Yield : 3.95 q/ha | 7,44,534 | 2.98 |  |
| TO4: *Stylosanthes hemata* | UHS(B) | 32.25 | q/ha | - | 6,60,985 | 2.78 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Multi Purpose Trees | Rainfed/Irrigated | Lack of alternate fast growing native MPTs | Evaluation of Multi Purpose Trees (MPT) as pepper standards | 05 | TO1: Arecanut | UHS (B) |  | q/ha | - | - | - | On going |
| TO2: Silver Oak | UHS(B) |  | q/ha | - | - | - |
| TO3: *Melia dubia* | KAU, Thrissur |  | q/ha | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Black Pepper | Irrigated | Sucking insects | Eco friendly management of sucking insects in blackpepper | 05 | TO1: Dimethoate | - | 19.8 | q/ha | Sucking Insects(%): 0.96  Coccinellid Population(%): 0.04 | 4,01,050 | 3.62 |  |
| TO2: Neem soap | IIHR, Bengaluru | 15.85 | q/ha | Sucking Insects(%): 2.27  Coccinellid Population(%):0.56 | 3,06,760 | 3.23 |  |
| TO3: *Pongamia soap* | IIHR, Bengaluru | 17.45 | q/ha | Sucking Insects(%): 2.11  Coccinellid Population(%):1.16 | 3,51,460 | 3.55 |  |
| TO4: Neem oil | IISR, Calicut | 17.85 | q/ha | Sucking Insects(%): 1.86  Coccinellid Population(%):1.02 | 3,60,250 | 3.58 |  |

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

**OFT:1:**

1**. Title of Technology Assessed** : Evaluation of suitable mulch material for arecanut plantation

2. **Performance of the Technology on specific indicators:** Best treatment (TO2) resulted higher B:C ratio (3.02)

compared to farmer practice(2.88)

3.**Specific Feedback from farmers :** Weeds were big menace in arecanut plantation. Sowing of mucuna and cowpea in between areca trees was more effective to control weed growth and these cover crops also provide additional income.

**4.Specific Feedback from Extension personnel and other stakeholders :** On farm Trial to manage weeds, soil erosion by growing cover crops in arecanut plantation was greately helped in convincing the farmers regarding use of cover crops for weed management

**5. Feedback to Research System based on results and feedback received:** Mucuna crop performed best under arecanut trees, however short duration type are more preferred than long duration ones.

**OFT:2:**

**1. Title of Technology Assessed** : Evaluation of Multi Purpose Trees (MPT) as pepper standards : **Ongoing**

**OFT:3:**

**1. Title of Technology Assessed :** Eco friendly management of sucking insects in blackpepper

**2. Performance of the Technology on specific indicators** : Commercial neem formulation performed better compared to neem and pongamia soap in management of sucking insects especially mealy bugs and scales.

**3.Specific Feedback from farmers :** Among ecofriendly methods, commercial neem is best. Noticed activity of predatory beetles in all the plant based treatments. Management measures should be initiated in the early stage of infestation by mealy bugs and scales, otherwise difficult to control. Leaf thrips is common menace doesn’t cause much damage on pepper yield.

**4.Specific Feedback from Extension personnel and other stakeholders :** Management against sucking insects especially scales and mealy bugs needs to be initiated in the early stage itself.

**5. Feedback to Research System based on results and feedback received :** Systematic research on loss estimation and management of sucking insects mainly scales and mealy bugs needs to be studied.

**4.D1. Results of Technologies Refined : NIL**

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

**PART V - FRONTLINE DEMONSTRATIONS (2018-19)**

**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 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Oilseeds |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Pulses |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Cereals |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Rainfed | Kharif | Paddy | PSB-68 | - | Crop Production | Integrated Crop Management | 4 | 4 | 0 | 10 | 10 | 0 |
|  |  | Rainfed | Kharif | Maize | - | NK-6240 | Crop Production | Integrated Crop Management | 4 | 4 | 0 | 10 | 10 | 0 |
|  | Millets |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Vegetables |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Rainfed | Rabi | Nutri Farms | - | - | Household food security by kitchen gardening and nutrition gardening | Nutrition garden | 0.01 | 0.01 | 0 | 10 | 10 | 0 |
|  | Flowers |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Irrigated | Kharif | Jasmine | Bhatkal Jasmine | - | Production and management Technology | Integrated Crop Management | 1 | 1 | 0 | 05 | 05 | 0 |
|  | Ornamental |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fruit |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Irrigated | Summer | Water Melon | Naamdhari | - | Production technology | Integrated Crop Management | 2 | 2 | 0 | 05 | 05 | 0 |
|  | Spices and condiments |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Irrigated | Kharif | Black pepper | Paniyur-1 | - | Production and Management Technology | Integrated Crop Management | 1 | 1 | 0 | 05 | 05 | 0 |
|  | Commercial |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Rainfed | Summer | Cashew | Local | - | Pest Management | Integrated Pest Management | 4 | 4 | 00 | 10 | 10 | 0 |
|  | Medicinal and aromatic |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fodder |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Rainfed | Kharif | Fodder tree crops |  |  | Agroforestry | Efficient utilization of bettalands through silvipastoral system for sustainable land use | 0.2 | 0.2 | 0 | 05 | 05 | 0 |
|  |  | Rainfed/Irrigated | Kharif | Multicut sorgam & Stylo grass | COFs-31  Stylosanthus haemata |  | Feed and Fodder Technology | Popularization of multicut sorghum and Stylo grasses |  |  | 0 | 9 | 09 | 0 |
|  |  | - | - | Aareca sheath |  |  | Feed and Fodder Technology | Demonstration on feeding of enriched dry areca sheath for cows | 5 | 5 | 0 | 5 | 05 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Plantation |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fibre |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Rainfed | Kharif | *Bt.* cotton |  | BG-II | Integrated Pest Management | Integrated Pest Management | 2 | 2 | 0 | 5 | 05 | 0 |
|  | Dairy |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | - | - | Livestock | Crossbred |  | Animal disease management | Assessment of modified PG protocol for treating repeat breeding cows | 12 | 14 | 0 | 14 | 14 | 0 |
|  |  | - | - | Livestock | Crossbred |  | Animal disease management | Demonstration of CIDR synch in anoestrus animals | 10 | 10 | 0 | 10 | 10 | 0 |
|  | Poultry |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Rabbitry |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Piggery |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Sheep and goat |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Duckery |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Common carps |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Mussels |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Ornamental fishes |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Oyster mushroom |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Button mushroom |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Vermicompost |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Sericulture |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Apiculture |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Implements |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Others : Agroforestry |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Rainfed | Kharif | TBOs (Tree borne Oilseed) | - | - | Production technology | Planting of TBOs in betta land | 0.2 | 0.2 | 0 | 10 | 10 | 0 |
|  |  | Rainfed | Kharif | NTFPs (Non Timber Forest Product ) | - | - | Production technology | Planting of NTFPs in betta land | 0.2 | 0.2 | 0 | 10 | 10 | 0 |
|  |  | Rainfed | Kharif | Sheme bamboo | *Dendrocalumus stocksii* |  | Production technology | Cultivation of Sheme bamboo on bunds and boundaries of farm land | 0.5 | 0.5 | 0 | 3 | 3 | 0 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Category | Farming  Situation | Season  and  Year | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Status of soil | | | Previous crop grown |
| N | P | K |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Oilseeds |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Pulses |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Cereals |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Millets |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Vegetables |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Flowers | Irrigated | Kharif, 2018 | Jasmine | Bhatkal | - | ICM | ICM in Bhatkal Jasmine | 61.6 | 8.0 | 68.0 | Jasmine |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Ornamental |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fruit |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Spices and condiments | Irrigated | Kharif 2018 | Black pepper | Paniyur-1 | - | ICM | ICM in black pepper | 52.8 | 7.3 | 110.8 | Black pepper |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Commercial |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Medicinal and aromatic |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fodder |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Plantation |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fibre |  |  |  |  |  |  |  |  |  |  |  |

**5.B. Results of FLDs**

**5.B.1. Crops**

| **Crop** | **Name of the technology demonstrated** | **Variety** | **Hybrid** | **Farming situation** | **No. of Demo.** | **Area**  **(ha)** | **Yield (q/ha)** | | | | **% Increase** | **\*Economics of demonstration (Rs./ha)** | | | | **\*Economics of check**  **(Rs./ha)** | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Demo** | | | **Check** | **Gross**  **Cost** | **Gross**  **Return** | **Net Return** | **\*\***  **BCR** | **Gross**  **Cost** | **Gross**  **Return** | **Net Return** | **\*\***  **BCR** |
|  |  |  |  |  |  |  | **H** | **L** | **A** |  |  |  |  |  |  |  |  |  |  |
| Oilseeds |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pulses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cereals | ICM in paddy | PSB-68 | - | Rainfed | 10 | 4 | 100.8 | 60.2 | 75.44 | 54.74 | 27.0 | 50,202.3 | 1,16,617.5 | 66,415 | 2.32 | 46,370 | 84,829 | 38,450 | 1.83 |
|  | ICM in Maize | - | NK-6240 | Rainfed | 10 | 4 | 79 | 45 | 65.6 | 43.8 | 33.26 | 41,200 | 98,400 | 57200 | 2.38 | 42500 | 65,700 | 23200 | 1.54 |
| Millets |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vegetables | Nutrifarms | Various vegetable varieties |  | Irrigated | 10 | 0.01 | 76 | 56.75 | 64.26 | - | - | 1216000 | 3125200 | 1909200 | 2.57 | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Flowers | ICM in Jasmine | Bhatkal Mallige | - | Irrigated | 5 | 1 | 53 | 46 | 49.92 | 42.90 | 16.36 | 7,81,161 | 27,73,306 | 19,92,145 | 3.55 | 7,56,161 | 23,83,310 | 16,27,149 | 3.15 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ornamental |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fruit | ICM in Water Melon | Naamdari |  | Irrigated | 5 | 2 | 268.7 | 225 | 242.5 | 193.8 | 200.8 | 95,750 | 2,42,500 | 1,46,750 | 2.58 | 88,250 | 1,93,750 | 1,05,500 | 2.25 |
|  |  |  | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Spices and condiments | ICM in Black pepper | Paniyur-1 | - | Irrigated | 5 | 1 | 19.80 | 15 | 16.80 | 13.60 | 23.52 | 1,76,235 | 5,88,420 | 4,12,185 | 3.34 | 1,50,310 | 4,76,000 | 3,25,690 | 3.16 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Commercial | IPM in Cashew | Local | - | Rainfed | 10 | 4 | 12.50 | 8.75 | 10.50 | 5.94 | 43.42 | 42,600 | 1,15,500 | 72,900.0 | 2.71 | 39,575 | 65,312 | 25,737‬ | 1.65 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fibre crops like cotton | IPM in Bt. Cotton | - | BG-II | Rainfed | 5 | 2 | 22.50 | 18.50 | 20.50 | 17.75 | 15.49 | 42,850 | 1,39,400 | 96,550‬ | 3.25 | 42,300 | 1,20,700 | 78,400 | 2.85 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Medicinal and aromatic |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fodder | \*\*\*Fodder tree crops | - | - | Rainfed | 5 | 0.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Multicut sorgam & Stylo grasses | COFs-31  \*Stylosanthus haemata | - | Rainfed/Irrigated | 9 | 0.9 | 1300 | 1200 | 1240 | 430 | 65% | 166150 | 373625 | 207475 | 2.24 | 194590 | 328790 | 134200 | 1.68 |
|  | Aareca sheath\*\* | - | - | - | 5 | - | 7.65 | 7.20 | 7.29 | 6.03 | 17.2% | 8420 | 15120 | 6700 | 1.77 | 8480 | 13104 | 4624 | 1.50 |
| Plantation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fibre |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others Agroforestry | \*\*\*TBOs (Tree borne Oilseed) | - | - | Rainfed | 10 | 0.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | \*\*\*NTFPs (Non Timber Forest Product ) | - | - | Rainfed | 10 | 0.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | \*\*\*Sheme bamboo | *Dendrocalumus stocksii* | - | Rainfed | 3 | 0.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**\*Stylosanthus haemata: Germination was good but crop was unable to grow well to its vegetative farm above 5-8 cm**

**\*\* Difference of dry fodder and enriched dry fodder intake for 90 days**

**\*\*\* The crop is under vegetative stage**

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

* **ICM in paddy**

|  |  |  |
| --- | --- | --- |
| **Data on other parameters in relation to technology demonstrated** | | |
| **Parameter with unit** | **Demo** | **Check** |
| Plant Height (Cm) | 139.5 | 130.4 |
| No. of tillers/hill | 15.6 | 8.2 |
| Panicle Height (cms) | 20.62 | 15.46 |
| No. of Grains/ panicle | 155.9 | 130.58 |
| Stem borer incidence | 0 | 5.2 |
| Stem borer control (%) | 100 | - |
| Leaf folder incidence | 3.5 | 25 |
| Leaf folder control (%) | 86 |  |
| Earheadbug incidence | 3.2 | 20.7 |
| Earheadbug control (%) | 84.54 |  |
| BPH ncidence | 2.75 | 17.6 |
| BPH control (%) | 84.38 |  |
| Blast incidence | 0.87 | 19.10 |
| Blast control (%) | 95.45 |  |
| Grain discoloration | 5.5 | 28.96 |
| Grain discoloration control (%) | 79.97 |  |
| Smut disease | 0.5 | 0 |

* **ICM in Maize**

|  |  |  |
| --- | --- | --- |
| **Data on other parameters in relation to technology demonstrated** | | |
| **Parameter with unit** | **Demo** | **Check** |
| Plant Height (cm) | 125.5 | 117.8 |
| Cob length (cm) | 20.80 | 15.50 |
| Cob Diameter | 4.77 | 4.60 |
| Cost on weed Management | 1850 | 6680 |
| Cost save on weed Management | 4830 | - |
| Labour Requirement for weed Management | 4 | 35 |
| % Labour save for weed Management | 88.57 | - |
| Stem borer infested plant per m2 | 1.0 | 5.2 |
| % control | 80.08 |  |
| % Leaf blight incidence | 3.8 | 25.7 |
| % control | 85.21 |  |

* **Nutri Farms**

|  |  |  |
| --- | --- | --- |
| **Data on other parameters in relation to technology demonstrated** | | |
| **Parameter with unit** | **Demo(**After intervention) | **Check** (Before intervention) |
| Change in knowledge regarding nutrition (%) (Pre Test) | 69 | - |
| Change in knowledge regarding nutrition (%) (Post Test) | 85 | - |

* **ICM in Jasmine**

|  |  |  |
| --- | --- | --- |
| **Data on other parameters in relation to technology demonstrated** | | |
| **Parameter with unit** | **Demo** | **Check** |
| Incidence of Leafspot(%) | 18 | 34 |
| Percent leaf incidence by Eriophyd mite | 6.4 | 37.50 |

* **ICM in Water melon**

|  |  |  |
| --- | --- | --- |
| **Data on other parameters in relation to technology demonstrated** | | |
| **Parameter with unit** | **Demo** | **Check** |
| Fusarium wilt(%) | 1.4 | 3.85 |
| % Malformed fruits | 0.9 | 3.8 |

* **IPM in Cashew**

|  |  |  |
| --- | --- | --- |
| **Data on other parameters in relation to technology demonstrated** | | |
| **Parameter with unit** | **Demo** | **Check** |
| TMB damage (0-4 scale) | 0.39 | 2.53 |
| Recovery of CSRB affected trees(%) | 1.5 | 0.2 |

* **ICM in Black pepper**

|  |  |  |
| --- | --- | --- |
| **Data on other parameters in relation to technology demonstrated** | | |
| **Parameter with unit** | **Demo** | **Check** |
| Death of vines-PDT | 4.08 | 4.90 |
| Reduction in sucking pest incidence(%) | 68.11 | - |
| Percent reduction in berry drop | 13.80 | - |

* **ICM in Bt. Cotton**

|  |  |  |
| --- | --- | --- |
| **Data on other parameters in relation to technology demonstrated** | | |
| **Parameter with unit** | **Demo** | **Check** |
| Aphid Count : DBS | 24.60 | 28.40 |
| Aphid Count : 7 DAS | 3.60 | 18.12 |
| Leaf hoppers(nos/3 leaves) DBS | 7.92 | 8.4 |
| Leaf hoppers(nos/3 leaves) 7 DAS | 1.0 | 3.52 |
| Thrips(nos/3 leaves) DBS | 15.20 | 12.60 |
| Thrips (nos/3 leaves) 7 DAS | 2.80 | 10.0 |
| PBW moths trapped | Nil | - |

* **Multicut sorgam & Stylo grasses**

|  |  |  |
| --- | --- | --- |
| **Data on other parameters in relation to technology demonstrated** | | |
| **Parameter with unit** | **Demo** | **Check** |
| Lactation Milk yield | 3335.938 | 2935.625 |

* **Enrichment of dry areca sheath&dry fodder**

|  |  |  |
| --- | --- | --- |
| **Data on other parameters in relation to technology demonstrated** | | |
| **Parameter with unit** | **Demo** | **Check** |
| Milk yield (3 months) Ltrs | 540 | 468 |
| Decrease in Feed wastage % | 24.4 | - |
| Increase in dry fodder intake (%) | 1.4 | - |

5.B.2. Livestock and related enterprises

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Type of livestock | Name of the technology demonstrated | Breed | No. of Demo | No.  of Units | Yield (l/animal) | | | | % Increase | \*Economics of demonstration Rs./unit) | | | | \*Economics of check  (Rs./unit) | | | |
| Demo | | | Check if any | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
|  |  |  |  |  | H | L | A |  |  |  |  |  |  |  |  |  |  |
| Dairy | Assessment of modified PG protocol for treating repeat breeding cows | Cross bred | 14 | 14 | 720 | 600 | 535.71 | 317.14 | 40.80 | 7412.14 | 15000.00 | 7587.86 | 1.95 | 8820.32 | 8880.00 | 59.68 | 1.10 |
|  | Demonstration of CIDR synch in anoestrus animals | Cross bred | 10 | 10 | On going | | | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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.)**

* **Assessment of modified PG protocol for treating repeat breeding cows**

|  |  |  |
| --- | --- | --- |
| **Data on other parameters in relation to technology demonstrated** | | |
| **Parameter with unit** | **Demo** | **Check if any** |
| **Number of animals shown heat and duration of estrous and conception rate** | | |
| Up to 18-24 Hr | 5 | 2 |
| 24-48 Hr | 9 | 4 |
| >48 hours | 0 | 8 |
| Conception rate | 85.70% | 28.5 |

* **CIDR Synch protocol**

|  |  |  |
| --- | --- | --- |
| **Data on other parameters in relation to technology demonstrated** | | |
| **Parameter with unit** | **Demo** | **Check if any** |
| **Number of animals shown heat and duration of estrous and conception rate** | | |
| No of animals shown heat | 10(10) | 3(10) |
| Up to 18-24 Hr | 6 | 0 |
| 24-48 Hr | 4 | 2 |
| >48 hours | 0 | 1 |
| Conception rate | Some results are pending | |

5.B.3. Fisheries : NIL

5.B.4. Other enterprises : NIL

5.B.5. Farm implements and machinery : NIL

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.No.** | **Activity** | **No. of activities organized** | **Number of participants** | **Remarks** |
| 1 | Field days | 4 | 221 |  |
| 2 | Farmers Training | 17 | 345 |  |
| 3 | Media coverage | 4 | - |  |
| 4 | Training for extension functionaries | 0 | 0 |  |
| 5 | Others (Please specify) | 0 | 0 |  |

**PART VI – DEMONSTRATIONS ON CROP HYBRIDS (2018-19): NIL**

**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  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | 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

**PART VII. TRAINING (2018-19)**

**7.A.. Training of Farmers and Farm Women including sponsored training programmes (On campus)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | |
| **General** | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| **Crop Production** |  |  |  |  |  |  |  |  |  |  |
| Weed Management |  |  |  |  |  |  |  |  |  |  |
| Resource Conservation Technologies |  |  |  |  |  |  |  |  |  |  |
| Cropping Systems |  |  |  |  |  |  |  |  |  |  |
| Crop Diversification |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming |  |  |  |  |  |  |  |  |  |  |
| Micro Irrigation/Irrigation |  |  |  |  |  |  |  |  |  |  |
| Seed production |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Integrated Crop Management | 3 | 100 | 12 | 112 | 8 | 0 | 8 | 108 | 12 | 120 |
| Soil and Water Conservation |  |  |  |  |  |  |  |  |  |  |
| Integrated Nutrient Management |  |  |  |  |  |  |  |  |  |  |
| Production of organic inputs |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Horticulture** |  |  |  |  |  |  |  |  |  |  |
| **a) Vegetable Crops** |  |  |  |  |  |  |  |  |  |  |
| Production of low value and high volume crop |  |  |  |  |  |  |  |  |  |  |
| Off-season vegetables |  |  |  |  |  |  |  |  |  |  |
| Nursery raising |  |  |  |  |  |  |  |  |  |  |
| Exotic vegetables |  |  |  |  |  |  |  |  |  |  |
| Export potential vegetables |  |  |  |  |  |  |  |  |  |  |
| Grading and standardization |  |  |  |  |  |  |  |  |  |  |
| Protective cultivation |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **b) Fruits** |  |  |  |  |  |  |  |  |  |  |
| Training and Pruning |  |  |  |  |  |  |  |  |  |  |
| Layout and Management of Orchards |  |  |  |  |  |  |  |  |  |  |
| Cultivation of Fruit |  |  |  |  |  |  |  |  |  |  |
| Management of young plants/orchards |  |  |  |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  |  |  |  |  |  |  |  |  |
| Export potential fruits |  |  |  |  |  |  |  |  |  |  |
| Micro irrigation systems of orchards |  |  |  |  |  |  |  |  |  |  |
| Plant propagation techniques |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **c) Ornamental Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery Management |  |  |  |  |  |  |  |  |  |  |
| Management of potted plants |  |  |  |  |  |  |  |  |  |  |
| Export potential of ornamental plants |  |  |  |  |  |  |  |  |  |  |
| Propagation techniques of Ornamental Plants |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **d) Plantation crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology | 1 | 53 | 0 | 53 | 0 | 0 | 0 | 53 | 0 | 53 |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others : Plant Propagation Technique | 1 | 16 | 3 | 19 | 8 | 3 | 11 | 24 | 6 | 30 |
| **e) Tuber crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **f) Spices** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology | 2 | 52 | 57 | 109 | 31 | 30 | 61 | 83 | 87 | 170 |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **g) Medicinal and Aromatic Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Production and management technology | 1 | 14 | 18 | 32 | 10 | 8 | 18 | 24 | 26 | 50 |
| Post harvest technology and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Soil Health and Fertility Management** |  |  |  |  |  |  |  |  |  |  |
| Soil fertility management |  |  |  |  |  |  |  |  |  |  |
| Integrated water management |  |  |  |  |  |  |  |  |  |  |
| Integrated nutrient management |  |  |  |  |  |  |  |  |  |  |
| Production and use of organic inputs |  |  |  |  |  |  |  |  |  |  |
| Management of Problematic soils |  |  |  |  |  |  |  |  |  |  |
| Micro nutrient deficiency in crops |  |  |  |  |  |  |  |  |  |  |
| Nutrient use efficiency |  |  |  |  |  |  |  |  |  |  |
| Balanced use of fertilizers |  |  |  |  |  |  |  |  |  |  |
| Soil and water testing |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Livestock Production and Management** |  |  |  |  |  |  |  |  |  |  |
| Dairy Management | 3 | 239 | 61 | 300 | 35 | 21 | 56 | 274 | 82 | 356 |
| Poultry Management |  |  |  |  |  |  |  |  |  |  |
| Piggery Management |  |  |  |  |  |  |  |  |  |  |
| Rabbit Management |  |  |  |  |  |  |  |  |  |  |
| Animal Nutrition Management | 1 | 19 | 6 | 25 | 7 | 2 | 9 | 26 | 8 | 34 |
| 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 |  |  |  |  |  |  |  |  |  |  |
| 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 | 01 | 13 | 22 | 35 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |  |  |  |  |  |  |  |  |  |  |
| Integrated Disease Management | 1 | 28 | 0 | 28 | 0 | 0 | 0 | 28 | 0 | 28 |
| Bio-control of pests and diseases |  |  |  |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  |  |  |  |  |  |
| Others :Safe use of pesticides | 1 | 30 | 0 | 30 | 7 | 0 | 7 | 37 | 0 | 37 |
| **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 | 2 | 31 | 7 | 38 | 1 | 1 | 2 | 32 | 8 | 40 |
| Others: KVK Activities | 1 | 27 | 8 | 35 | 6 | 2 | 8 | 33 | 10 | 43 |
| Others: Vigilance Awareness | 1 | 35 | 6 | 41 | 7 | 1 | 8 | 42 | 7 | 49 |
| **Agro-forestry** |  |  |  |  |  |  |  |  |  |  |
| Production technologies |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming Systems |  |  |  |  |  |  |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **TOTAL** | **19** | 657 | 200 | **857** | 120 | 68 | **188** | **764** | **246** | **1010** |

**7.B Training of Farmers and Farm Women including sponsored training programmes (Off campus)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | |
| **General** | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| **Crop Production** |  |  |  |  |  |  |  |  |  |  |
| Weed Management |  |  |  |  |  |  |  |  |  |  |
| Resource Conservation Technologies |  |  |  |  |  |  |  |  |  |  |
| Cropping Systems |  |  |  |  |  |  |  |  |  |  |
| Crop Diversification |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming |  |  |  |  |  |  |  |  |  |  |
| Micro Irrigation/Irrigation |  |  |  |  |  |  |  |  |  |  |
| Seed production |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Integrated Crop Management | 3 | 30 | 2 | **32** | 0 | 0 | **0** | **30** | **2** | **32** |
| Soil and Water Conservation |  |  |  |  |  |  |  |  |  |  |
| Integrated Nutrient Management | 1 | 12 | 0 | **12** | 0 | 0 | **0** | **12** | **0** | **12** |
| Production of organic inputs | 1 | 11 | 0 | **11** | 0 | 0 | **0** | **11** | **0** | **11** |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Horticulture** |  |  |  |  |  |  |  |  |  |  |
| **a) Vegetable Crops** |  |  |  |  |  |  |  |  |  |  |
| Production of low value and high volume crop |  |  |  |  |  |  |  |  |  |  |
| Off-season vegetables |  |  |  |  |  |  |  |  |  |  |
| Nursery raising |  |  |  |  |  |  |  |  |  |  |
| Exotic vegetables |  |  |  |  |  |  |  |  |  |  |
| Export potential vegetables |  |  |  |  |  |  |  |  |  |  |
| Grading and standardization |  |  |  |  |  |  |  |  |  |  |
| Protective cultivation |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **b) Fruits** |  |  |  |  |  |  |  |  |  |  |
| Training and Pruning |  |  |  |  |  |  |  |  |  |  |
| Layout and Management of Orchards |  |  |  |  |  |  |  |  |  |  |
| Cultivation of Fruit | 4 | 64 | 5 | **69** | 35 | 0 | **35** | **99** | **5** | **104** |
| Management of young plants/orchards |  |  |  |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  |  |  |  |  |  |  |  |  |
| Export potential fruits |  |  |  |  |  |  |  |  |  |  |
| Micro irrigation systems of orchards |  |  |  |  |  |  |  |  |  |  |
| Plant propagation techniques | 1 | 18 | 8 | **26** | 0 | 0 | **0** | **18** | **8** | **26** |
| 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 | 1 | 48 | 1 | **49** | 1 | 0 | **1** | **49** | **1** | **50** |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (Mechanization) | 1 | 10 | 3 | **13** | 5 | 2 | **7** | **15** | **5** | **20** |
| **e) Tuber crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **f) Spices** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology | 2 | 212 | 20 | **232** | 25 | 0 | **25** | **237** | **20** | **257** |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **g) Medicinal and Aromatic Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Production and management technology |  |  |  |  |  |  |  |  |  |  |
| Post harvest technology and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Soil Health and Fertility Management** |  |  |  |  |  |  |  |  |  |  |
| Soil fertility management |  |  |  |  |  |  |  |  |  |  |
| Integrated water management |  |  |  |  |  |  |  |  |  |  |
| Integrated nutrient management |  |  |  |  |  |  |  |  |  |  |
| Production and use of organic inputs |  |  |  |  |  |  |  |  |  |  |
| Management of Problematic soils |  |  |  |  |  |  |  |  |  |  |
| Micro nutrient deficiency in crops |  |  |  |  |  |  |  |  |  |  |
| Nutrient use efficiency |  |  |  |  |  |  |  |  |  |  |
| Balanced use of fertilizers |  |  |  |  |  |  |  |  |  |  |
| Soil and water testing | 2 | 107 | 4 | **111** | 8 | 0 | **8** | **115** | **4** | **119** |
| Others : Renewable Energy | 4 | 0 | 141 | **141** | 0 | 56 | **56** | **0** | **197** | **197** |
| Water Conservation | 1 | 0 | 40 | **40** | 11 |  | **11** | **11** | **40** | **51** |
| **Livestock Production and Management** |  |  |  |  |  |  |  |  |  |  |
| Dairy Management | 1 | 26 | 5 | **31** | 1 |  | **1** | **27** | **5** | **32** |
| 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 |  |  |  |  |  |  |  |  |  |  |
| Design and development of low/minimum cost diet |  |  |  |  |  |  |  |  |  |  |
| Designing and development for high nutrient efficiency diet |  |  |  |  |  |  |  |  |  |  |
| Minimization of nutrient loss in processing |  |  |  |  |  |  |  |  |  |  |
| Processing and cooking |  |  |  |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  |  |  |  |  |  |  |  |  |
| Storage loss minimization techniques |  |  |  |  |  |  |  |  |  |  |
| Value addition | 1 | 0 | 33 | **33** | 0 | 0 | **0** | **0** | **33** | **33** |
| 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 | 8 | 70 | 7 | **68** | 2 | 0 | **2** | **70** | **7** | **77** |
| Integrated Disease Management |  |  |  |  |  |  |  |  |  |  |
| Bio-control of pests and diseases |  |  |  |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Fisheries** |  |  |  |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing |  |  |  |  |  |  |  |  |  |  |
| Composite fish culture |  |  |  |  |  |  |  |  |  |  |
| Hatchery management and culture of freshwater prawn |  |  |  |  |  |  |  |  |  |  |
| Breeding and culture of ornamental fishes |  |  |  |  |  |  |  |  |  |  |
| Portable plastic carp hatchery |  |  |  |  |  |  |  |  |  |  |
| Pen culture of fish and prawn |  |  |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  |  |  |  |  |  |
| Edible oyster farming |  |  |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  |  |  |  |  |  |
| Fish processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Production of Inputs at site** |  |  |  |  |  |  |  |  |  |  |
| Seed Production |  |  |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  |  |  |  |  |  |
| Bio-agents production |  |  |  |  |  |  |  |  |  |  |
| Bio-pesticides production |  |  |  |  |  |  |  |  |  |  |
| Bio-fertilizer production |  |  |  |  |  |  |  |  |  |  |
| Vermi-compost production |  |  |  |  |  |  |  |  |  |  |
| Organic manures production |  |  |  |  |  |  |  |  |  |  |
| Production of fry and fingerlings |  |  |  |  |  |  |  |  |  |  |
| Production of Bee-colonies and wax sheets |  |  |  |  |  |  |  |  |  |  |
| Small tools and implements |  |  |  |  |  |  |  |  |  |  |
| Production of livestock feed and fodder |  |  |  |  |  |  |  |  |  |  |
| Production of Fish feed |  |  |  |  |  |  |  |  |  |  |
| Mushroom production | 1 | 10 | 22 | 32 | 6 | 4 | 10 | 16 | 26 | 42 |
| Apiculture | 1 | 14 | 0 | 14 | 0 | 0 | 0 | 14 | 0 | 14 |
| 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** | **33** | **632** | **291** | **923** | **94** | **62** | **156** | **726** | **353** | **1079** |

**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 | 1 | 27 | | 8 | 35 | 3 | 2 | 5 | 30 | 10 | 40 |
| 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** | **1** | **27** | | **8** | **35** | **3** | **2** | **5** | **30** | **10** | **40** |

**7.D. Training for Rural Youths including sponsored training programmes (off campus): NIL**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | | | | | | | | | | | | | | | |
| **General** | | | | | | **SC/ST** | | | | | | | | | **Grand Total** | | | | | | | |
| **Male** | **Female** | | **Total** | | | **Male** | | | **Female** | | | **Total** | | | **Male** | | | **Female** | | | **Total** | |
| Nursery Management of Horticulture crops |  |  | |  |  | |  | | |  | | |  | | |  | | |  | | |  | |
| Training and pruning of orchards |  |  | |  |  | |  | | |  | | |  | | |  | | |  | | |  | |
| Protected cultivation of vegetable crops |  |  | |  |  | |  | | |  | | |  | | |  | | |  | | |  | |
| Commercial fruit production |  |  | |  |  | |  | | |  | | |  | | |  | | |  | | |  | |
| Integrated farming |  |  | |  |  | |  | | |  | | |  | | |  | | |  | | |  | |
| Seed production |  |  | |  |  | |  | | |  | | |  | | |  | | |  | | |  | |
| Production of organic inputs |  |  | |  |  | |  | | |  | | |  | | |  | | |  | | |  | |
| Planting material production |  |  | |  |  | |  | | |  | | |  | | |  | | |  | | |  | |
| Vermi-culture |  |  | |  |  | |  | | |  | | |  | | |  | | |  | | |  | |
| 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 : Entrepreneur Development | 1 | 20 | | 0 | 0 | | 0 | | | 0 | | | 0 | | | 20 | | | 0 | | | 20 | |
| **TOTAL** | **1** | **20** | | **0** | **0** | **0** | | | **0** | | | **0** | | | **20** | | | **0** | | | **20** | | |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | | | |
| **General** | | | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | | **Total** | | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| Productivity enhancement in field crops |  |  | |  | |  |  |  |  |  |  |  |
| Integrated Pest Management | 1 | 10 | | 14 | | 24 | 4 | 4 | 8 | 14 | 18 | 32 |
| Integrated Nutrient management |  |  | |  | |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  | |  | |  |  |  |  |  |  |  |
| Protected cultivation technology |  |  | |  | |  |  |  |  |  |  |  |
| Production and use of organic inputs |  |  | |  | |  |  |  |  |  |  |  |
| Care and maintenance of farm machinery and implements |  |  | |  | |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  | |  | |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  | |  | |  |  |  |  |  |  |  |
| Women and Child care |  |  | |  | |  |  |  |  |  |  |  |
| Low cost and nutrient efficient diet designing |  |  | |  | |  |  |  |  |  |  |  |
| Group Dynamics and farmers organization |  |  | |  | |  |  |  |  |  |  |  |
| Information networking among farmers |  |  | |  | |  |  |  |  |  |  |  |
| Capacity building for ICT application |  |  | |  | |  |  |  |  |  |  |  |
| Management in farm animals |  |  | |  | |  |  |  |  |  |  |  |
| Livestock feed and fodder production | 1 | 21 | | 1 | | 22 | 9 | 1 | 10 | 30 | 2 | 32 |
| Household food security |  |  | |  | |  |  |  |  |  |  |  |
| Any other (pl.specify) |  |  | |  | |  |  |  |  |  |  |  |
| **Total** | **2** | **31** | | **15** | | **46** | **13** | **5** | **18** | **44** | **20** | **64** |

**7.F. Training programmes for Extension Personnel including sponsored training programmes (off campus): NIL**

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

7.G. Sponsored training programmes conducted

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No.** | **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | |
| **General** | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| **1** | **Crop production and management** |  |  |  |  |  |  |  |  |  |  |
| 1.a. | Increasing production and productivity of crops | 1 | 48 | 1 | 49 | 1 | 0 | 1 | 49 | 1 | 50 |
| 1.b. | Commercial production of vegetables |  |  |  |  |  |  |  |  |  |  |
| **2** | **Production and value addition** |  |  |  |  |  |  |  |  |  |  |
| 2.a. | Fruit Plants |  |  |  |  |  |  |  |  |  |  |
| 2.b. | Ornamental plants |  |  |  |  |  |  |  |  |  |  |
| 2.c. | Spices crops | 2 | 224 | 66 | 290 | 34 | 22 | 56 | 258 | 88 | 346 |
| **3.** | **Soil health and fertility management** |  |  |  |  |  |  |  |  |  |  |
| **4** | **Production of Inputs at site** |  |  |  |  |  |  |  |  |  |  |
| **5** | **Methods of protective cultivation** |  |  |  |  |  |  |  |  |  |  |
| **6** | **Others (pl.specify)** |  |  |  |  |  |  |  |  |  |  |
| **7** | **Post harvest technology and value addition** |  |  |  |  |  |  |  |  |  |  |
| 7.a. | Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| 7.b. | Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **8** | **Farm machinery** |  |  |  |  |  |  |  |  |  |  |
| 8.a. | Farm machinery, tools and implements |  |  |  |  |  |  |  |  |  |  |
| 8.b. | Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **9.** | **Livestock and fisheries** |  |  |  |  |  |  |  |  |  |  |
| **10** | **Livestock production and management** |  |  |  |  |  |  |  |  |  |  |
| 10.a. | Animal Nutrition Management |  |  |  |  |  |  |  |  |  |  |
| 10.b. | Animal Disease Management |  |  |  |  |  |  |  |  |  |  |
| 10.c | Fisheries Nutrition |  |  |  |  |  |  |  |  |  |  |
| 10.d | Fisheries Management |  |  |  |  |  |  |  |  |  |  |
| 10.e. | Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **11.** | **Home Science** |  |  |  |  |  |  |  |  |  |  |
| 11.a. | Household nutritional security |  |  |  |  |  |  |  |  |  |  |
| 11.b. | Economic empowerment of women |  |  |  |  |  |  |  |  |  |  |
| 11.c. | Drudgery reduction of women |  |  |  |  |  |  |  |  |  |  |
| 11.d. | Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **12** | **Agricultural Extension** |  |  |  |  |  |  |  |  |  |  |
| 12.a. | CapacityBuilding and Group Dynamics | 3 | 51 | 7 | 58 | 1 | 1 | 2 | 52 | 8 | 60 |
| 12.b. | Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
|  | **Total** | **6** | **323** | **74** | **397** | **36** | **23** | **59** | **359** | **97** | **456** |

**Details of sponsoring agencies involved**

* CSS-MIDH NHM
* AgricultureSkill Council of India
* Coconut Board,Bengaluru**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. | **1** | **0** | **27** | **0** | **0** | **0** | **0** | **0** | **27** | **27** |
| 4.j. | Agril. para-workers, para-vet training |  |  |  |  |  |  |  |  |  |  |
| 4.k. | Bakery Product Preparation | **1** | **0** | **16** | **0** | **0** | **0** | **0** | **0** | **16** | **16** |
| **5** | **Agricultural Extension** |  |  |  |  |  |  |  |  |  |  |
| 5.a. | Capacity building and group dynamics |  |  |  |  |  |  |  |  |  |  |
| 5.b. | Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
|  | **Grand Total** | **2** | **0** | **43** | **0** | **0** | **0** | **0** | **0** | **43** | **43** |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.**  **No.** | **Name of Job Role** | **Date**  **of Start** | **Date**  **of**  **Assessment** | **Total**  **Expenditure**  **(Rs.)** | **No. of Participants** | | | | | | | | | **No of Participants passed**  **assessment** |
| **General** | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| **1** | Bee Keeper | 11.02.2019 | 18.03.19 | 1,40,663.00 | 14 | 1 | 15 | 4 | 1 | 5 | 18 | 2 | 20 | **19** |
| 2. | Organic Grower | 11.02.2019 | 18.03.19 | 1,65,164.00 | 17 | 0 | 17 | 3 | 0 | 3 | 17 | 03 | 20 | 18 |

**PART VIII – EXTENSION ACTIVITIES (2018-19)**

**Extension Programmes (including extension activities undertaken in FLD programmes)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nature of Extension Programme** | **No. of Programmes** | **No. of Participants (General)** | | | **No. of Participants**  **SC / ST** | | | **No.of extension personnel** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| Field Day | 5 | 155 | 114 | 269 | 29 | 12 | 41 | 10 | 4 | 14 |
| Kisan Mela | 01 | 20 | 25 | 45 | 40 | 70 | 110 | 5 | 4 | 9 |
| Kisan Ghosthi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Exhibition | 6 | 46658 | 30937 | 77595 | 20435 | 10239 | 30674 | 355 | 235 | 590 |
| Film Show | 8 | 65 | 30 | 95 | 15 | 12 | 27 | 0 | 0 | 0 |
| Method Demonstrations | 20 | 237 | 62 | 299 | 48 | 14 | 62 | 30 | 17 | 47 |
| Farmers Seminar | 01 | 60 | 10 | 70 | 10 | 6 | 16 | 8 | 2 | 10 |
| Workshop | 8 | 177 | 217 | 394 | 63 | 89 | 152 | 16 | 6 | 22 |
| Group meetings |  |  |  |  |  |  |  |  |  |  |
| Lectures delivered as resource persons | 66 | 3482 | 941 | 4423 | 1312 | 409 | 1712 | 503 | 259 | 762 |
| Newspaper coverage | 38 |  |  |  |  |  |  |  |  |  |
| Radio talks | 8 |  |  |  |  |  |  |  |  |  |
| TV talks | 8 |  |  |  |  |  |  |  |  |  |
| Popular articles | 14 |  |  |  |  |  |  |  |  |  |
| Extension Literature | 4 |  |  |  |  |  |  |  |  |  |
| Advisory Services(Over phone) | 169 |  |  |  |  |  |  |  |  |  |
| Scientific visit to farmers field | 201 | 371 | 91 | 462 | 70 | 19 | 89 | 83 | 18 | 101 |
| Farmers visit to KVK | 197 | 105 | 15 | 120 | 57 | 10 | 67 | 10 | 10 | 20 |
| Diagnostic visits | 78 | 172 | 23 | 195 | 20 | 2 | 22 | 45 | 14 | 59 |
| Exposure visits | 18 | 40 | 8 | 48 | 25 | 4 | 29 | 0 | 0 | 0 |
| Ex-trainees Sammelan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Soil health Camp | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Animal Health Camp | 01 | 50 | 7 | 57 | 10 | 0 | 10 | 0 | 0 | 0 |
| Agri mobile clinic | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Soil test campaigns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Farm Science Club Conveners meet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Self Help Group Conveners meetings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mahila Mandals Conveners meetings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Celebration of important days (specify) | 8 | 300 | 200 | 500 | 100 | 91 | 191 | 0 | 0 | 0 |
| Any Other (Specify) Awareness Programmes | 3 | 75 | 315 | 390 | 32 | 130 | 162 | 40 | 20 | 60 |
| **Total** | **862** | **51967** | **32995** | **84962** | **22266** | **11107** | **33364** | **1105** | **589** | **1694** |

**PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIAL (2018-19)**

**9.A. Production of seeds by the KVKs**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Crop category | **Name of the crop** | **Name of the**  **Variety** | **Name of the Hybrid** | **Quantity of seed**  **(q)** | **Value**  **(Rs)** | **Number of farmers to whom provided** |
| Cereals (crop wise) | Paddy\* | Abhilash | - | 135 |  |  |
| Oilseeds |  |  |  |  |  |  |
| Pulses | Black gram\* | DU-1 |  | 1 |  |  |
| Commercial crops |  |  |  |  |  |  |
| Vegetables |  |  |  |  |  |  |
| Flower crops |  |  |  |  |  |  |
| Spices |  |  |  |  |  |  |
| Fodder crop seeds |  |  |  |  |  |  |
| Fiber crops |  |  |  |  |  |  |
| Forest Species |  |  |  |  |  |  |
| Others (specify) |  |  |  |  |  |  |
| **Total** |  |  |  | **136** |  |  |

\* Produce not yet sold

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Crop category** | **Name of the crop** | **Variety** | **Hybrid** | **Number** | **Value (Rs.)** | **Number of farmers to whom provided** |
| Commercial |  |  |  |  |  |  |
| Vegetable seedlings | Drumstick | PKM-1 |  | 600 | 9,000.0 | 48 |
| Fruits |  |  |  |  |  |  |
| Ornamental plants |  |  |  |  |  |  |
| Medicinal and Aromatic |  |  |  |  |  |  |
| Plantation | Arecanut | SAS-1 |  | 3400 | 51,000.0 | 13 |
| Spices | Black Pepper | Paniyur-1 | -- | 20000 | 3,50,000.00 | 75 |
|  | Cardamom | Mudigere-1 |  | 1100 | 16,500.00 | 16 |
|  | Venilla | Local |  | 148 | 8,880.00 | 6 |
|  |  |  |  |  |  |  |
| Tuber |  |  |  |  |  |  |
| Fodder crop saplings |  |  |  |  |  |  |
| Forest Species |  |  |  |  |  |  |
| Others(specify) |  |  |  |  |  |  |
| **Total** |  |  |  | **25248** | **4,35,380.00** | **158** |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Bio Products** | **Name of the bio-product** | **Quantity**  **(q)** | **Value (Rs.)** | **Number of**  **farmers to**  **whom provided** |
| Bio Fertilizers |  |  |  |  |
| Bio-pesticide |  |  |  |  |
| Bio-fungicide |  |  |  |  |
| Bio Agents |  |  |  |  |
| Others (specify) Root Hormone | IBA | 0.015 | 1,225.0 | 10 |
| **Total** |  |  |  |  |

# 9.D. Production of livestock : NIL

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

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

(A) KVK Newsletter:

Date of start: April 2018 Periodicity:Quarterly Copies printed in each issue:100

(B) Literature developed/published

|  |  |
| --- | --- |
| **Item** | **Number** |
| Research papers- International | 4 |
| Research papers- National | 1 |
| Technical reports |  |
| Technical bulletins/short communications/Abstract | 12 |
| Popular articles - English |  |
| Popular articles – Local language | 19 |
| Extension literature | 5 |
| Others (Pl. specify) |  |
| **TOTAL** | **41** |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **Type of media** | **Title** | **Details** |
| **1** | CD / DVD | Enrichment of Trichoderma with Neem cake | In house Video development |
| **2** | Mobile Apps | Nil | - |
| **3** | Social media groups with KVK as Admin | DAESI Trainees Whatsapp Group | Regular exchange for information and answers to the queries. |
| **4** | Facebook account name | kvkuks@gmail.com | - |
| **5** | Instagram account name | Nil | - |
| **6** | Digital Library | Digital Library | Nearly 70 technological CDs are collected from different institutes like GKVK, UASD, IIHR etc. They are being used during trainings for dissemination of technology |

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

**Title : Berry Drop Management in Black Pepper**

**Background :** Black pepper (*Piper nigrum* L.) is a major export oriented spice crop of India. It is a native of the monsoon forests along Malabar Coast of south western India. In India, it is cultivated in an area of 1.35 lakh ha with the production of 64000 tonnes and the export has been 16,840 tonnes. Karnataka, Kerala and Tamilnadu are major spice growing states in India. Uttara Kannada is one of the major black pepper growing districts in Karnataka. In Uttara Kannada, it is cultivated in an area of 1117 ha with the production of 517tonnes.The major setback in the cultivation of black pepper in the district is berry drop leading to loss in yield. Spike shedding and berry drop are serious malady that affects the yield of pepper to an extent of 29.0 per cent and 40.0 per cent. Abiotic stress like drought, high temperature, nutritional imbalance and biotic stress are the reasons for berry drop in black pepper. These stresses may create a physiological imbalance within the plant, leading to shedding of spikes that adversely affects the productivity of the vines. Auxins are organic compounds which play a vital role in regulating various physiological processes of plants. Hence an investigation was carried out with growth regulator and nutrient spray to enhance the productivity of pepper vines by reducing berry drop from spikes

**Interventions**

**Process :** On farm testing of available technology options was undertaken at Kenchagadde village of Uttara Kannada district during 2016-17 and 2017- 2018 by Krishi Vigyan Kendra, Sirsi. The OFT was conducted at 5 farmer’s field. The observation on per cent berries per spike at the time of first harvest, per cent reduction in berry drop and yield were recorded. Per cent berries per spike was calculated based on the observations like total number of berries set/ spike and berries drop/ spike.

**Technology :** TO1: The treatments were farmers practice (no spray), TO2: Di-Ammonium Phosphate (DAP) 1.5 per cent and 25 ppm Naphthalene Acetic Acid (NAA) spray at berry set and fruit development stage and TO3:NAA @ 40 ppm spray at berry set and fruit development stage. The recommended package of practices were followed to raise the crop.



**Berry set and fruit development under different treatments**

****

**Spraying and harvesting operations in black pepper**

**Impact:** Number of berries per spike were found to be highest in the treatment where 1.5 per cent DAP and 25 ppm NAA were sprayed at berry set and fruit development stage respectively. Further, application of NAA @ 40 ppm at berry set and fruit development stage also showed significantly more number of berries per spike at the time of first harvest as compared to farmers practice.

**Horizontal Spread:** Initially in five farmers field (250 vines in each farmer field) treatments were induced under FLD. Due to the increased berry set per cent and total yield surrounding farmers started to use the same treatments and the technology reached to more than 45 farmers. The information related to management of berry drop in black pepper was spread via original farmers in whose field KVK initially introduced the technology and trainings. Further, the berry drop management by DAP and NAA spray is still expanding to surrounding blocks of Uttar Kannada district.

**Economic gains**: Application of 1.5 per cent DAP and 25 ppm NAA spray fetches the significantly highest net return and B:C ratio (Rs.4,19,256 /ha and 3.34) followed by NAA @ 40 ppm spray treatment. The lowest B:C ratio was observed under farmers practice.

**Employment Generation:** NIL

**10.D. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year: NIL**

10.E. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs) : NIL

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **Crop / Enterprise** | **ITK Practiced** | **Purpose of ITK** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

10 F. Technology Week celebration during 2018-19: 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 |  |  |  |

**PART XI – SOIL AND WATER TEST**

**11.1 Soil and Water Testing Laboratory**

A. Status of establishment of Lab : Running

1. Year of establishment : 2005

2. List of equipments purchased with amount :

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sl. No | Name of the Equipment | | Qty. | | Cost | |
| 1 | pH meter | | 1 | | 19250 | |
| 2 | EC meter | | 1 | | 20,570 | |
| 3 | Microjeldahl N distillation Unit | | 2 | | 2,88,550 | |
| 4 | Plant Sample digestion Unit (Kjeldahl) | | 1 | | 137350 | |
| 5a | Distillation Unit (Glass double)-5 l/ hr | | 1 | | 43050 | |
| 5b | Distillation Unit (Glass double)-1 l/hr | | 2 | | 43050 | |
| 6 | Spectrophotometer | | 1 | | 40050 | |
| 7 | Flame photometer | | 2 | | 1,22,040 | |
| 8 | Hot Air Oven | | 1 | | 17228 | |
| 9 | Willey mill (Plant sample Grinder) | | 1 | | 15,435 | |
| 10 | Hot plate | | 1 | | 3046 | |
| 11 | Horizontal Shaker | | 2 | | 96905 | |
| 12 | Weighing Balance (Cap 500 g, Acc 0.1 g) | | 1 | | 10890 | |
| 13 | Weighing Balance (Cap 100 g, Acc 0.001 g) | | 2 | | 138479 | |
| 14 | Whirlpool Refrigerator | | 1 | | 22850 | |
| 15 | Atomic absorption spectro photometer | | 1 | | 14,49,352 | |
|  | Total | 21 | | 24,68,095.00 | |

B. Details of samples analyzed since establishment of SWTL:

|  |  |  |  |
| --- | --- | --- | --- |
| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages |
| Soil Samples | 11651 | 11543 | 6805 |
| Water Samples | 6721 | 6666 | 4534 |
| Plant samples | 0 | 0 | 0 |
| Manure samples | 0 | 0 | 0 |
| Others (specify) | 0 | 0 | 0 |
| Total | **18372** | **18209** | **11339** |

C. Details of samples analyzed during the 2018-19:

|  |  |  |  |
| --- | --- | --- | --- |
| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages |
| Soil Samples | 1812 | 1725 | 1648 |
| Water Samples | 1536 | 1502 | 1441 |
| Plant samples |  |  |  |
| Manure samples |  |  |  |
| Others (specify) |  |  |  |
| Total | **3348** | **3227** | **3089** |

11.2 Mobile Soil Testing Kit : NIL

A. Date of purchase and current status: NIL

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

B. Details of soil samples analyzed during 2018-19 and since establishment with Mobile Soil Testing Kit: : NIL

|  |  |  |
| --- | --- | --- |
|  | Progress during 2018-19 | Cumulative progress |
| Samples analyzed (No.) |  |  |
| Farmers benefited (No.) |  |  |
| Villages covered (No.) |  |  |

11.3 Details of soil health cards issued based on SWTL & Mobile Soil Testing Kit during 2018-19: : NIL

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

11.4 World Soil Health Day celebration

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Farmers participated (No.) | Soil health cards issued (No.) | VIPs (MP/ Minister/MLA attended (No.) | Other Public Representatives participated | Officials participated (No.) | Media coverage (No.) |
| 01 | 152 | 48 | 01 | 03 | 20 | 04 Dailies |

**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)** |
| Use of green manure crops(diancha, sunhemp) in paddy | 150 | 45 | Net profit: 23000/ha | Net profit: 38000/ha |
| Seed treatment (Fungicides) in paddy |
| Bio-fertilizer application in paddy |
| Lime application in paddy |
| Micronutrient application(Zn, B) |
| Rhizome rot management in ginger | 50 | 85 | Net profit: 275000/ha | Net profit: 450000/ha |
| Heart rot management in pineapple | 35 | 60 | Net profit:  615000/ha | Net profit:  425000/ha |

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

* **Modified PG protocol for management of repeat breeding in cows**

The technology was transferred through front line demonstration during 2017-18 and 2018-19, to the cows which are not conceiving even after 3 consecutive inseminations. The technology involves correction of nutritional deficiency by supplementation of multivitamin and minerals with heat synchronization by double dose of Prostaglandin and fixed inseminations with a dose of GnRH. This has resulted in increased conception rate to the tune of 85% in single insemination and getting a calf a year, increase milk yield by 40% and cost reduction to the tune of 17%. This technology is adapted to 50 % of affected population by field Veterinary Doctors, Artificial Insemination workers and veterinary livestock inspectors.

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

**PART XIII - LINKAGES**

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

|  |  |
| --- | --- |
| **Name of organization** | **Nature of linkage** |
| IINRG Ranchi | Projects |
| ASCI | Skill Trainings |
| State Dept. of Agriculture | Trainings, demonstrations, seminars and field days, ATMA |
| State Dept. of Horticulture | Training programmes, demonstrations, seminars and field days, soil testing, CHD Scheme |
| Department of Women and Child Development | **Primary data collection on women and children** |
| Thotagar’s Service Soceity, Sirsi | Trainings, input procurement, seminars. |
| State Dept. of Animal husbandry & Veterinary Sciences | Animal Health Camps, trainings. |
| Grameen Banks | Guidance to beneficiaries about schemes in Trainings |
| Water shed department | Trainings. |
| All India Radio, E-TV, Udaya, Chetan TV and Door Darshan | Publicity and transfer of technology |
| Kadamba charitable trust, Sirsi | Trainings, method demonstration, meetings , Seminars. |
| Kadamba Marketing & Co-operative Society, Sirsi | Trainings, Melas, SHGs, Marketing |
| Snehakunja Charitable Trust, Honnavar | Training & method demonstration. |
| Farmers clubs | Trainings, demonstrations, seminars and field days. |
| Sri Kshetra Dhrmastala Grameenabhivrudhi Yojane (SKDRDP) | Seminar, Field day. |
| SRIJAN NGO | Trainings and Field Visit and Field days |
| MANU VIKAS NGO | Field days and Field visits |
| Canarabank Deshpande Rudeset , Haliyal | Trainings, field visits, meetings |
| Jnana Joythi Financial Literacy Centre, Sirsi | Trainings |
| The Agricultural Service and Development Cooperative Society Ltd. | Trainings, Services(supply of inputs) |
| GGSSS, Ltd Nanikatta, Siddapur tq. | Trainings, FLDs, Method demos |
| Madhukeshwar FPO, Banavasi | Technical backstopping |
| Pragati FPO, Banavasi | Technical backstopping |
| Karnataka Forest Department | Trainings, Field visits |
| KMF | Trainings, Demonstrations |
| Department of Women and Child Development | Primary data collection on women and children |
| RUDSETI | Organizing training programmes for women SHG’s, |
| Line departments(Fisheries, Dept. of Animal Husbandry) | Organizing training programmes, income generating activities for women for women, participation as recourse person |
| BAIF, Institute for rural development | Trainings, field day, field visit, workshop |

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

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of the scheme** | **Date/ Month of initiation** | **Funding agency** | **Amount (Rs.)** |
| Testing chemical project : Bioefficacy and phytotoxicity of IKI 3106 80 SL against insect pests on Rice (as PI) | 2 seasons ( Rabi 2018 and Kharif 2019) | ISK Biosciences India Pvt. Ltd., New Delhi | 1,41,600 (R) +2,00,600 (K) |
| KVK Sirsi as Voluntary /cooperating center for ICAR funded Network project on Conservation of Lac genetic resources (as PI) | December, 2018 | ICAR, New Delhi  IINRG Ranchi | 5,50,000.00(2018-19) |
| Studies on wilting of Mangroove plantations of Honnavar forest division(as PI) | February 2019 | KFD, Honnavar | 2,50,000.00 |
| Evaluation and Assessment of Traditional and Farmer’s rice varieties in Karnataka (as Co-PI) | June, 2018 | National Innovation Foundation, Gandhinagar | 13,20,000.00 |
| Staff Research Project (UASD): Status of physical and mental health of women labours working in wakaries | August 2018 | UAS Dharwad | 1,00,000.00 |
| Staff Research Project : Study of flowering behavior and standardization of soft wood cutting propagation technique in Jasmine *(Jasminum sambac var* Bhatkal Jasmine*)* | 2017-18 | UAS, Dharwad | 1,25,000.00 |

**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 | 1.Discussion meeting on implementation of ATMA programme 2018-19 on 22.9.18  2.District level meeting on demos to be conducted under ATMA on 12.07.18 | 02 | Nil | 1.Discussion meeting on implementation of ATMA programme 2018-19 on 22.9.18  2.District level meeting on demos to be conducted under ATMA on 12.07.18 |
| 02 | Research projects | Studies on Agronomic aspects of Teff crop.  Funded under ATMA Outlay 3.0 lakhs | - | - | - |
|  |  |  |  |  |  |
| 03 | Training programmes | Technical information in horticultural/Agricultural crops | 16 | 01 | Organized district level Scientist-Farmer Interaction Meet at KVK Sirsi |
|  |  |  |  |  |  |
| 04 | Demonstrations | 1. Seed treatment in Paddy at Mundagod  2. Safe handling of pesticides at Mogadde and Tenkanakeri | 02 | - | - |
|  |  |  |  |  |  |
| 05 | Extension Programmes |  |  |  |  |
|  | Kisan Mela |  |  |  |  |
|  | Technology Week |  |  |  |  |
|  | Exposure visit |  |  |  |  |
|  | Exhibition |  |  |  |  |
|  | Soil health camps | Soil health camp at Bairumbe | 10 | 01 | World Soil Health Day in association with ATMA Sirsi |
|  | Animal Health Campaigns |  |  |  |  |
|  | Diagnostic Field Visits | Daignostic FV | 13 |  |  |
| 06 | Publications |  |  |  |  |
|  | Video Films |  |  |  |  |
|  | Books |  |  |  |  |
|  | Extension Literature | 1. Extension folder - on Role of Pheromone traps in management of YSB in Paddy, 2018-19, 1500 copies  2. Extension folder - Production technology of Azolla - as an animal feed, 2018-19, 1500 copies  3. Extension Folder: Fall Army Worm , Copies: 3000 |  |  |  |
|  | Pamphlets |  |  |  |  |
|  | Others (Pl. specify) |  |  |  |  |
| 07 | Other Activities Corporate Activities | Member in selection of District & Taluka Level Best Farmer Awards | 15 |  |  |
|  | Watershed approach |  |  |  |  |
|  | Integrated Farm Development |  |  |  |  |
|  | Agri-preneurs development |  |  |  |  |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Programme** | **Nature of linkage** | **Funds received if any Rs.** | **Expenditure during the reporting period in Rs.** | **Constraints if any** |
| 01 | CSS-MIDH | Production of planting material and training programme | 1,60,000.00 | 1,58,070.00 | Nil |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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 : NIL**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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** | **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** |
| April 2018 | **Text** | 01 | 0 | 04 | 0 | 0 | 0 | **5** | 10192 |
| May | **Text** | 01 | 0 | 04 | 0 | 01 | 0 | **6** | 10265 |
| June | **Text** | 02 | 0 | 04 | 0 | 0 | 0 | **6** | 10265 |
| July | **Text** | 05 | 0 | 05 | 0 | 0 | 01 | **11** | 10295 |
| August | **Text** | 03 | 0 | 03 | 0 | 0 | 01 | **7** | 9046 |
| September | **Text** | 0 | 0 | 02 | 0 | 01 | 01 | **4** | 9056 |
| October | **Text** | 03 | 0 | 03 | 0 | 0 | 02 | **8** | 10300 |
| November | **Text** | 0 | 0 | 06 | 0 | 0 | 0 | **6** | 9455 |
| December | **Text** | 0 | 0 | 03 | 0 | 0 | 0 | **3** | 9031 |
| January 2019 | **Text** | 06 | 0 | 03 | 0 | 01 | 0 | **10** | 10272 |
| February | **Text** | 01 | 0 | 04 | 0 | 02 | 01 | **8** | 10272 |
| March | **Text** | 01 | 0 | 04 | 0 | 0 | 01 | **6** | 10296 |
| **Total** |  | **23** | **0** | **45** | **0** | **5** | **7** | **80** |  |

**PART XIV- PERFORMANCE OF INFRASTRUCTURE IN KVK**

**14A. Performance of demonstration units (other than instructional farm): NIL**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Demo Unit | Year of  establishment | Area  (ha) | Details of production | | | Amount (Rs.) | | Remarks |
| Variety | Produce | Qty. | Cost of inputs | Gross income |
|  |  |  |  |  |  |  |  |  |  |

**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  (Rs.) | Gross income  (Rs.) |
| Cereals |  |  |  |  |  |  |  |  |  |
| Paddy | 25/6/2018 | 2/12/2018 | 3.6 | Abhilash | Seed | 135 q |  |  |  |
| Pulses |  |  |  |  |  |  |  |  |  |
| Blackgram | 25/3/2018 | 28/6/2018 | 1.2 | DU-1 | Seed | 1q |  |  | Stagnation of Water |
| Oilseeds |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Fibers |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Spices & Plantation crops | | | | | | | | | |
| Arecanut | - | 2/1/2019 | 0.8 | SAS-1 |  | 35 q | 30,000 | 1,30,000 |  |
| Floriculture |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Fruits |  |  |  |  |  |  |  |  |  |
| Cashew |  | 22/3/2019 | 1 |  |  | 50 kg |  | 3,500 |  |
| Sapota |  | 23/3/2019 |  |  | 150 kg |  | 3,900 |  |
| Vegetables |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

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

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

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.**  **No** | **Name**  **of the animal / bird / aquatics** | **Details of production** | | | **Amount (Rs.)** | | **Remarks** |
| **Breed** | **Type of Produce** | **Qty.** | **Cost of inputs** | **Gross income** |
| 01 | Cows | Crossbred | Milk | 6789 l | 1,41,026 | 1,69,731.25 |  |

**14E. Utilization of hostel facilities**

**Accommodation available (No. of beds): 25**

|  |  |  |  |
| --- | --- | --- | --- |
| **Months** | **No. of trainees stayed** | **Trainee days (days stayed)** | **Reason for short fall (if any)** |
| April 2018 | 3 | 3 |  |
| May | 5 | 5 |  |
| June | 5 | 4 |  |
| July | 4 | 4 |  |
| August | 5 | 5 |  |
| September | 4 | 4 |  |
| October | 3 | 3 |  |
| November | 4 | 7 |  |
| December | 6 | 8 |  |
| January 2019 | 17 | 56 |  |
| February | 5 | 5 |  |
| March | 3 | 3 |  |

**14F. Database management**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Database target** | **Database created** |
| 01 |  | Trainings |
| 02 |  | FLD Details |
| 03 |  | OFT Details |
| 04 |  | Field Visits |
| 05 |  | Method Demonstrations |
| 06 |  | Farmer Visits to KVK |
| 07 |  | Phone Calls |
| 08 |  | Seminars/Workshops Organized |
| 09 |  | Seminars/Trainings/Workshops attended |
| 10 |  | Special Programmes |
| 11 |  | KMAS |
| 12 |  | Guest Lectures |
| 13 |  | Field Days |
| 14 |  | Electronic Media |
| 15 |  | Publications |
| 16 |  | Seeds/Planting Material |

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 - FINANCIAL PERFORMANCE**

**15A. Details of KVK Bank accounts**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Bank account** | **Name of the bank** | **Location** | **Branch code** | **Account Name** | **Account Number** | **MICR Number** | **IFSC Number** |
| With Host Institute |  |  |  |  |  |  |  |
| With KVK | SBI, Sirsi | SIRSI | 917 | Programme Coordinator, KVK UK | 30157809532 | 581002401 | SBIN0000917 |
|  |  | SIRSI | 917 | KVK Revolving Fund | 10816617558 |  |  |
|  |  | SIRSI | 917 | Group Leader, UAS Diary | 10816629030 |  |  |
|  |  | SIRSI | 917 | EXTN.LEADER,EXTN.EDUTN.UNIT | 10816617296 |  |  |
| Current A/c NO. |  | SIRSI | 917 | Programme Coordinator KVK | 36527784252 |  |  |

**15B. Utilization of KVK funds during the year 2018-2019(Rs. in lakh)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.**  **No.** | **Particulars** | **Sanctioned** | **Released** | **Expenditure** |
| **A. Recurring Contingencies** | | | | |
| 1 | **Pay & Allowances** | 108.12 | 108.12 | 90.75 |
| 2 | **Traveling allowances** | 2.75 | 2.75 | 2.52 |
| 3 | **Contingencies** | | | |
| *A* | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 2.35 | 2.35 | 2.24 |
| *B* | POL, repair of vehicles, tractor and equipments | 2.30 | 2.30 | 2.30 |
| *C* | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained) | 1.00 | 1.00 | 0.96 |
| *D* | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | 0.50 | 0.50 | 0.49 |
| *E* | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | 3.03 | 3.03 | 2.90 |
| *F* | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | 0.58 | 0.58 | 0.30 |
| *G* | Training of extension functionaries | 0.10 | 0.10 | 0.10 |
| *H* | Maintenance of buildings |  |  |  |
| *I* | Establishment of Soil, Plant & Water Testing Laboratory | 0.10 | 0.10 | 0.10 |
| *J* | Library | 0.04 | 0.04 | 0.03 |
| *K* | ORD/EDP/Innv.Activities,Soil and water testing and issue of Soil health cards | 0.60 | 0.60 | 0.15 |
| *L* | Extension Activities | 0.40 | 0.40 | 0.39 |
| **TOTAL (A)** | | **121.87** | 121.87 | 103.24 |
| **B. Non-Recurring Contingencies** | |  | 0.00 | 0.00 |
| 1 | **Works** | 47.00 | 47.00 | 31.55 |
| 2 | **Equipments including SWTL & Furniture** |  |  |  |
| 3 | **Vehicle** (Four wheeler/Two wheeler, please specify) |  |  |  |
| 4 | **Library** (Purchase of assets like books & journals) |  |  |  |
| **TOTAL (B)** | | 47.00 | 47.00 | 31.55 |
| **C. REVOLVING FUND** | |  |  |  |
| **GRAND TOTAL (A+B+C)** | | 168.87 | 168.87 | 134.78 |

**15C. Status of revolving fund (Rs. in lakh) for the last three years**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Year** | **Opening balance as on 1st April** | **Income during the year** | **Expenditure during the year** | **Net balance in hand as on 1st April of each year** |
| **April 2016 to March 2017** | 575405.52 | 1934128.50 | 1546874.00 | 962660.02 |
| **April 2017 to March 2018** | 962660.02 | 1068409.00 | 999962.00 | 1031107.02 |
| **April 2018 to March 2019** | 1031107.02 | 1561052.50 | 799870.50 | 1792305.02 |

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

| **Name of the staff** | **Designation** | Title of the training programme | Institute where attended | Dates |
| --- | --- | --- | --- | --- |
| Dr. Roopa S. Patil | Scientist (Agril. Entomology) | International Conference on Doubling Farmers Income through Innovative Approaches | KVK Baramati (Pune) | 9-11 April, 2018 |
| Dr. Roopa S. Patil | Scientist (Agril. Entomology) | Management Development Programme on Management of training | MANAGE, Hyderabad | 27-30, August, 2018 |
| Dr. Roopa S. Patil | Scientist (Agril. Entomology) | Training of Trainers programme | GKVK, Bengaluru | 24-29, Sept, 2018 |
| Dr. Roopa S. Patil | Scientist (Agril. Entomology) | 9th National Extension Education Congress-2018 on Climate Smart Agricultural Technologies ; Innovations and Interventions | CAEPHT, Ranipool | 15-17, Nov, 2018 |
| Dr. Shweta Biradar | Scientist – Home Science | Jack conclave | COH, Kolar | 1.06.2018 to 2.06.2018 |
| Dr. Shweta Biradar | Scientist – Home Science | Participation and paper presentation in International Conference on Doubling the Income of Farmers of SAARC Countries: Extension Strategies and Approaches | Department of Agriculture, Agriculture Information and Training Center. Kathmandu Nepal | 20.09.2018 to 23.09.2018 |
| Dr. Shweta Biradar | Scientist – Home Science | 9th Extension Education Congress “ Climate Smart Agricultural Technologies Innovations and Interventions” | Central Agricultural University, Imphal - College of Agricultural Engineering and Post Harvest Technology, Ranipool, Sikkim | 15.11.2018 to 17.11.2018 |
| Dr. Shweta Biradar | Scientist – Home Science | Doubling Farmers Income: A Family Approach | UASD | 16.01.2019 to 05.02.2018 |
| Dr. Santosh H M | Scientist  (Horticulture) | ASCI Training of Trainers programme | GKVK UAS Bengaluru | 24. 9. 2018 to 26. 9. 2018 |
| Dr. Santosh H M | Scientist  (Horticulture) | 9th National Extension Education Congress, 2018 | CAU, Imphal | 15.11.2018 to 17.11.2018 |
| Dr. Santosh H M | Scientist  (Horticulture) | CAFT training on ‘Conservation and utilization of plant genetic resources in medicinal and aromatic plants’ | COH,Sirsi | 03.12.2018-23.12.2018 |
| Smt Annapurna F Neeralgi | Technical Officer(Computers) | 9th Extension Education Congress “ Climate Smart Agricultural Technologies Innovations and Interventions” | Central Agricultural University, Imphal - College of Agricultural Engineering and Post Harvest Technology, Ranipool, Sikkim | 15.11.2018 to 17.11.2018 |
| Smt Annapurna F Neeralgi | Technical Officer(Computers) | PFMS | UAS Dharwad | 10.01.2019 |
| Smt Annapurna F Neeralgi | Technical Officer(Computers) | PFMS | UAS Dharwad | 19.02.2019 to 20.02.2019 |

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

**I. Linkage with FPO under CHD scheme of Dept. of Horticulture**

**Name and address of FPO :**

**Madhukeshwar Totagarike Raita Utpadakar Company Ltd., Andagi, Tq: Sirsi.**

**Date of Estashlishment** : 09.03.2016

**No. of Members** : 1000

**Major Crops** : Banana, Ginger, Pineapple

Different Activities conducted:

|  |  |  |  |
| --- | --- | --- | --- |
| **FLDs Under FPO** | | | |
| 1 | Heart rot management in Pineapple | 1 ha | 10demos |
| 2 | Rhizome rot management in Ginger | 1 ha | 10 demos |
| 3 | Demonstration of bunch care technologies to maximize yield in banana | 1 ha | 12 demos |
| Field Visits : 15  Trainings : 03  Method Demonstration : 03  Interstate Exposure visit to Mysore(Raita Mitra FPO) and Udagamandalam was organized for 50 FPO members | | | |

**Results of FLDs conducted :**

**1. Title of the Technology : Heart rot management in Pineapple**

|  |  |  |
| --- | --- | --- |
| **Particulars** | **Demo** | **Check** |
| Percent disease Incidence of Heart rot (PDI) | 4.25 | 5.20 |
| Yield (tons/ha) | 82.61 | 73.69 |
| B:C ratio | 2.65 | 2.44 |
| % increase in yield :10.79 | | |

**2. Title of the Technology : Rhizome rot management in Ginger**

|  |  |  |
| --- | --- | --- |
| **Particulars** | **Demo** | **Check** |
| Incidence of rhizome rot (%) | 11.74 | 19.71 |
| Yield (tons/ha) | 27.45 | 23.19 |
| B:C ratio | 3.41 | 3.12 |
| % increase in yield :15.51 | | |

**3. Title of the Technology : Rhizome rot management in Ginger**

|  |  |  |
| --- | --- | --- |
| **Particulars** | **Demo** | **Check** |
| Days to harvest | 378.1 | 392.2 |
| Weight of Bunch (Kg) | 15.27 | 12.35 |
| Finger length (cm) | 9.32 | 8.80 |
| Finger girth (cm) | 9.15 | 8.23 |
| Yield (t/ha) | 34.58 | 27.97 |
| B:C ratio | 2.59 | 2.30 |
| % increase in yield :19.11 | | |

**II. Introduction New Crop “TEFF:**

As per the suggestion of Shri. Anant Kumar Hegde, Hon’ble Central Minister for Skill Development, Teff Super Food crop is introduced in Uttara Kannada District during Kharif 2018-19. The CFTRI technology was demonstrated in 2 guntas through the feeler trial in farmers field at Kapageri village of Sirsi Taluka. The farmer harvest 4 kg teff seeds from 20 gram seeds. The produced seeds were re distributed to farmers of Haliyal, Sirsi Talukas through ATMA Research project for further research. Shri. Anant Kumar Hegde, Hon’ble Central Minister appreciated the efforts of KVK Uttara Kannada in introduction of valuable crop in the district and has given assurance for providing the market linkage for the produce.

III. **Up scaling and Marketing of Garments in EDP Mode:**

**Organizer :** Dr. Shweta Biradar, Scintist Home Science

**Village** : Kumta

**Participants :** 27 SHG Members (2 SHGs)

**Collaborative Agency :** RUDSETI, Kumta

**Product Prepared :** Saree blouse, Salwar Kameez, Designer blouses, Designer Sarees.

**Out come**

* Very promising with the stellar percentage of 100.
* All the 27 trainees are up scaled with tailoring and embroidery skill.
* 12 women have taken up tailoring as their enterprise along with their domestic

activities and earning on an average Rs. 1500/- to Rs. 2000/- per month.

* Remaining 15 women stitch the garments for themselves and their family members. Yet

they are planning to take up their skill as an entrepreneurship

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