**Indian Council of Agricultural Research, New Delhi**

**University of Agricultural and Horticultural Sciences, Shivamogga**

**ANNUAL REPORT 2018-19**

**(for the period 01-04-2018 to 31-03-2019)**

**Date:**

**14th to 16th May 2019**

**Venue:**

**KVK, Mudigere, Chikkamagaluru**

**Editorial Credits**

**Dr. Bharath Kumar T.P.**

**Dr. Girish R.**

**Mr. Yogaraju M.**

**Dr. Shivakumar L.**

**Mrs. Fathima Zahara**

**Mrs. Shruthi H.R.**

**Type setting and designing**

**Mrs. Fathima Zahara**

**I.C.A.R.-KRISHI VIGYAN KENDRA**

**HANDPOST, MUDIGERE, CHIKKAMAGALURU**

**KRISHI VIGYAN KENDRA, CHIKKAMAGALURU**

**ANNUAL REPORT- 2019-20**

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

**Krishi Vigyan Kendra, Mudigere, Chikkamagaluru**

**University of Agricultural & Horticultural Sciences, Shivamogga**

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 |  |  |
| Senior Scientist & Head  I.C.A.R-Krishi Vigyan Kendra  Mudigere-577 132  Chikkmagaluru District. | 08263-228198 | 08263-228303 | [kvkmudigere@gmail.com](mailto:kvkmudigere@gmail.com) [kvk.Chikkamagaluru@icar.gov.in](mailto:kvk.Chikkamagaluru@icar.gov.in) | <http://www.kvkchikkamagaluru.in/> |

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 & Horticultural Sciences, Shivamogga | 91-081-82267001 | +91-081-82298008 | [vcuahs2014@gmail.com](mailto:vcuahs2014@gmail.com) | <http://www.uahs.in> |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Telephone / Contact | | |
|  | Residence | Mobile | Email |
| Dr. Bharath Kumar T.P. | -- | 9480838203 | [kvkmudigere@gmail.com](mailto:kvkmudigere@gmail.com) |

1.4. Year of sanction: 1985

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

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Sanctioned post** | **Name of the incumbent** | **Designation** | **M/F** | **Discipline** | **Highest Qualification**  **(for PC, SMS and Prog. Asstt.)** | **Pay**  **Scale** | **Basic pay** | **Date of joining KVK** | **Permanent**  **/Temporary** | **Category (SC/ST/**  **OBC/**  **Others)** |
| 1 | Head/Senior Scientist | Dr. Bharath Kumar T.P. | I/c Senior Scientist & Head | M | Agricultural Extension | M.Sc. (Agri.), Agricultural Extension Ph.D. | 15600-39,100+  6000 AGP | 19810 | 01-10-2012 | Permanent (In-charge Senior Scientist & Head) | OBC |
| 2 | Scientist/SMS | Dr. Girish R | Scientist (Pl.Protn.) | M | Agril. Entomology | M.Sc.(Agri. Ent.)  Ph.D. | 15600-39,100+  6000 AGP | 19050 | 28-10-2013 | Permanent | OBC |
| 3 | Scientist/SMS | Smt. Sudharani N. | Scientist (H.Sc.) | F | Food & Nutrition | M.Sc. (H.Sci.) | 15600-39,100+  6000 AGP | 19810 |  | Permanent | OBC |
| 4 | Scientist/SMS | Vacant | - | - | - | - | - | - | - | - | - |
| 5 | Scientist/SMS | Vacant | - | - | - | - | - | - | - | - | - |
| 6 | Scientist/SMS | Vacant | - | - | - | - | - | - | - | - | - |
| 7 | Scientist/SMS | Vacant | - | - | - | - | - | - | - | - | - |
| 8 | Programme Assistant ( Lab Tech.) | Vacant | - | - | - | - | - | - | - | - | - |
| 9 | Programme Assistant (Computer) | Mrs. Fathima Zahara | Programme Assistant (Computer) | F | Commerce | B.Com. | 9300- 34800+4200 AGP | 12960 | 21-01-2011 | Permanent | OBC |
| 10 | Programme Assistant/ Farm Manager | Mrs. Shruthi H.R. | Farm Manager | F | Ag. Economics | M.Sc. (Ag.Econ.) | 9300- 34800+4200 AGP | 11010 | 06-12-2013 | Permanent | OBC |
| 11 | Assistant | Mr. Manjunath I.L. | Assistant | M | Arts | B.A. | 30350-750-32600-850-36000-950-39800-1100-46400-1250-53900-1450-58250 |  |  |  |  |
| 12 | Jr. Stenographer |  |  |  |  |  |  |  |  |  |  |
| 13 | Driver - 1 | Mr. Madaiah, N. | Driver (Tractor) | M | - | SSLC | 27650-650-29600-750-32600-850-36000-950-39800-1100-46400-1250-52650 | 18100 | 18.10.2008 | Permanent | SC |
| 14 | Driver - 2 | Mr. Akram | Lab Assistant/ Driver (Jeep) | M | Arts | II PUC | 30350-750-32600-850-36000-950-39800-1100-46400-1250-53900-1450-58250 | 12750 | 16-08-2012 | Permanent | OBC |
| 15 | SS-1 |  |  |  |  |  |  |  |  |  |  |
| 16 | SS-2 |  |  |  |  |  |  |  |  |  |  |

**1.6. Total land with KVK (in ha): 21.20 ha**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **Item** | **Area (ha)** | |
| 1 | Under Buildings | Administrative Building and Demonstration Units -0.52  Trainees hostel – 0.60 | |
| 2. | Under Demonstration Units | Nursery | 0.5 ha |
| Poultry |
| Rabbit |
| Piggery & Goad |
| Fish unit |
| 3. | Under Crops | Sapota | 30.0 |
|  |  | Rubber | 9.0 |
|  |  | Cashew | 4.0 |
|  |  | Silver trees | 5.0 |
|  |  | Demonstration blocks, Nursery | 2.0 |
| 4. | Orchard/Agro-forestry |  | |
| 5. | Others |  | |

**1.7. Infrastructural Development:**

1. **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 | ZC Unit | 1990-91 | 250 sq.m | 5.0 lakh |  |  |  |
| 2. | Farmers Hostel | ZC Unit | 2005-06 | 300 sq.m. | 22,45,800 |  |  |  |
| 3. | Staff Quarters | ZC Unit | 2009-10 | 400 sq.m | 41,83,000 |  |  |  |
|  | 1 |  |  |  |  |  |  |  |
|  | 2 |  |  |  |  |  |  |  |
|  | 3 |  |  |  |  |  |  |  |
|  | 4 |  |  |  |  |  |  |  |
|  | 5 |  |  |  |  |  |  |  |
|  | 6 |  |  |  |  |  |  |  |
| 4. | Demonstration Units |  |  |  |  |  |  |  |
|  | 1 Nursery | UAS(B) | 2003-04 | 50 sq.m | 50,000-00 |  |  |  |
|  | 2 Vermi compost unit | ZC Unit | 10.02.05 | 20’x20’ | 1,00,000-00 |  |  |  |
|  | 3 Spawn unit | UAS(B) | 2003-04 | 6x4.4m | 1,44,877-00 |  |  |  |
|  | 4 Piggery unit | ZC Unit | 2008-09 | 80 sq.mt. | 3,25,000-00 |  |  |  |
|  | 5 Horticulture propagation unit | ZC Unit | 2008-09 | 50 sq.mt. | 3,00,000-00 |  |  |  |
|  | 6 Soil Science & Agril. Chemistry lab | ZC unit | 13-07-2005 |  | 11,80,000-00 |  |  |  |
| 5 | Fencing | -nil- | - | - | - |  |  |  |
| 6 | Rain Water harvesting system | ZC Unit | November 2007 | 50000 sq, m | 9,71,000-00 |  |  |  |
| 7 | Threshing floor | -nil- | - | - | - |  |  |  |
| 8 | Farm godown | -nil- | - | - | - |  |  |  |
| 9 |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |

B) Vehicles

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Type of vehicle** | **Year of purchase** | **Cost (Rs.)** | **Total kms. Run** | **Present status** |
| Bolero SLE 2WD 7 seater AC | 2017 | 6,65,536 | 24300 | Good |
| TVS star city bike | 2006 | 40,000 | 29048 | Good |
| Honda Activa Black | 2009 | 50,000 | 19180 | Good |
| Tractor | 2012 | 5,00,000 | 1260 hrs | Good |
| Tiller | 2011 | 1,48,770 | 450 hrs | Good |

**C) Equipment & AV aids**

|  |  |  |  |
| --- | --- | --- | --- |
| Name of the equipment | Year of purchase | Cost (Rs.) | Present status |
| Generator (Diesel) | 19-06-89 | 19740-00 | Good |
| Godrej type writer (English) | 10-12-85 | ---- | Satisfactory |
| Godrej type writer (Kannada) | 10-12-85 | ---- | Satisfactory |
| Computer with printer | 26-02-02 | 45100-00 | Satisfactory |
| Laminar air flow | 08-01-04 | 46500-00 | Good |
| Refrigerator | 08-01-04 | 19600-00 | Good |
| Refrigerator | 30-03-05 | 13900-00 | Good |
| Autoclave | 08-01-04 | 34000-00 | Good |
| Conference chair | 28-07-04 | 50375-00 | Good |
| Microwave Oven | 31-03-05 | 20000-00 | Good |
| Computer, Printer with 1 KVA UPS | 20-09-05 | 63000-00 | Good |
| Computer, Printer with 1 KVA UPS | 11-03-06 | 63000-00 | Good |
| Xerox Machine | 24-02-05 | 65565-00 | not working |
| Compaq branded system | 27-03-07 | 30492-00 | good |
| Xerox machine | 25-11-18 | 55120-00 | Good |
| Seagate 80 GB hard disk | 28-03-11 | 2100-00 | Good |
| Pepper D coning with washing | 13-03-13 | 22500 | Good |
| Sony TV with stabilizer & audio system | 3-07-13 | 48950-00 | Good |
| UPS system & battery | 18-03-15 | 31675-00 | Good |
| Sony TV with accessories and home theater | 31-03-16 | 99475 | Good |
| ITC portable lecture podium | 14-02-16 | 40000 | Good |
| Ahuja PS x 362 DP portable amplifier | 10-03-16 | 7700 | Good |
| 5 tyne SMB plough | 23-06-16 | 24150 | Good |
| HP desk top computer | 29-08-16 | 49750 | Good |
| Lenovo desk top computer | 29-09-16 | 98554 | Good |
| File rack/wall robe for keeping file | 18-10-16 | 38520 | Good |
| Pusa digital ster meter kit |  | 65000 | Good |
| Epson ink bank projector | 11-02-17 | 41145 | Good |
| EPSon projector colour light out put | 02-02-17 | 49800 | Good |
| HP printer | 09-02-17 | 34203 | Good |
| Luminous battery | 13-02-17 | 49500 | Good |
| Luminous UPS | 13-02-17 | 25500 | Good |
| Display board frames | 29-12-16 | 19250 | Good |
| Engine operated chain saw | 17-02-17 | 29540 | Good |
| Makita weed cutter brush cutter | 17-02-17 | 28000 | Good |
| Bee hive box | 28-02-17 | 18000 | Good |
| Breeding rabbits with cages | 28-02-17 | 30000 | Good |
| Sprayer tank with aluminium feet ladder | 14-03-17 | 14413 | Good |
| Room air cooler | 14-03-17 | 6600 | Good |
| Acqua star hot & cool | 03-03-17 | 31000 | Good |
| Solar street light | 27-01-17  30-01-17  31-01-17 | 33949  33949  33949 | Good |
| Hydroponics system | 23-04-17 | 30000 | Good |
| Hyroponics NFT & raft system | 19-02-18 | 50000 | Good |
| Bolero | 12-05-17 | 665562 | Good |
| Xerox machine (Kyoura) | 8-12-17 | 97280 | Good |
| Model low cost poultry unit | 01-03-18 | 16535 | Good |
| Fibre frame with pot | 03-03-18 | 24940 | Good |
| Fibre frame with pot podder cutting & seeds | 05-03-18 | 24936 | Good |
| Atomic absorption spectrophotometer | 23-01-18 | 1418500 | Good |
| Water distillation unit | 10-03-18 | 162241 | Good |
| EC meter | 10-03-18 | 68146 | Good |
| pH meter | 10-03-18 | 31624 | Good |
| Nitrogen distillation | 12-03-18 | 298994 | Good |
| Spectrophotometer | 04-03-18 | 470230 | Good |
| **AV-aids** |  |  |  |
| Automatic slide projector | 20-11-82 | 3234-00 | Under repair |
| Camera | 16-11-86 | 6800-00 | Satisfactory |
| Over head projector | 23-02-87 | 3186-00 | Under repair |
| Elempo 35mm film strip-cum-slide projector | 23-02-87 | 1176-00 | Under repair |
| Over Head Projector | 14-05-04 | 25000-00 | Good |
| Fax | 10-06-04 | 24975-00 | Under repair |
| Digital Camera | 16-03-05 | 19995-00 | Good |
| Panel board | 15-07-05 | 22923-00 | Good |
| Ahuja amplifier SSB-60EM | 17-09-08 | 5020-00 | Good |
| PA column speakr ASC-30T | 17-09-08 | 3032-00 | Good |
| Ahuja AWM-490 VI+L | 17-09-08 | 3119-00 | Good |
| AWD 59xLR card mic | 17-09-08 | 484-00 | Good |
| Sony ICD-Vx60/SCE PC | 17-09-08 | 5923-00 | Good |
| Sony Digital camera | 22-01-13 (2no.)  12-03-16 | 9950-00  32315-00 | Good  Good |
| Dell Projector | 23-03-15 | 25100-00 | Good |
| Dell inspiron 3542 laptop | 25-03-15 | 43000-00 | Good |
| LED clip on | 09-03-17 | 18549 | Good |
| Display scroller | 23-01-17 | 39961 | Good |
| Kiosk tent with LED clip on | 30-01-17 | 28906 | Good |
| Panasonic (CC TV accessories) | 28-02-17 | 47600 | Good |
| Dell desktop computer | 09-03-17 | 48500 | Good |
| Electronic balance | 24-02-17  27-02-17 | 14885  15614 | Good |
| Samsung tab | 17-02-17 | 17700 | Good |
| Mridaparikshak soil testing mini lab | 21-02-20 | 86000 | Good |
| **Village Resource Centre items** |  |  |  |
| 1.8M Ext C band antenna with NP mount and earthing kit (prodeline) | 10-07-09 |  | Good |
| Ext C band 2W BUC with PLL-LNB 7 IDU (Link star/via sat) | 10-07-08 |  | Good |
| UPS 1 KVA on line 4-hrs. SMF battery backup (E&C) | 10-07-09 |  | Good |
| Video capture computer (HPDx6120) | 10-07-09 |  | Good |
| Handy cam with tripod (sony DCR TRV 285E) | 10-07-09 |  | Good |
| Wireless microphone (UHF) (bayer dynamics) | 10-07-09 |  | Good |
| Speaker with amplifier (Bosh LBD 1906 & LBD 8573) | 10-07-09 |  | Good |
| Speakers | 10-07-09 |  | Good |
| RKVY Project materials |  |  |  |
| Research microscope | 25-11-08 | 66555-00 | Good |
| Photo copier | 25-11-08 | 55120-00 | Good |
| LCD motorized screen | 25-11-08 | 25875-00 | Good |
| Touch screen information kiosk | 25-11-08 | 124569-00 | Good |
| LG frost free refrigerator | 25-11-08 | 30750-00 | Good |
| Digital micropipettes | 27-11-08 | 21180-00 | Good |
| Desk top coputers | 02-02-09 | 46000-00 | Good |
| Printers | 02-02-09 | 31290-00 | Good |
| Display boards | 02-02-09 | 30000-00 | Good |
| Computer table | 02-02-09 | 5558-00 | Good |
| Computer chairs | 02-02-09 | 3542-00 | Good |
| LCD | 02-02-09 | 44990-00 | Good |
| Video camera | 02-02-09 | 184000-00 | Good |
| Hot air oven PSM make | 17-02-09 | 24166-00 | Good |
| Laminar air flow | 17-02-09 | 54013-00 | Good |
| Autoclave | 17-02-09 | 28688-00 | good |
| Elisa reader | 08-09-09 | 147155-00 | Good |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date | Number of Participants | Salient Recommendations | Action taken | Remarks, if any |
|  |  |  |  |  |
|  |  |  |  |  |

**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 | Central Dry Zone (Zone-4): Kadur  a) Agriculture – Monocropping: Ragi, Sunflower, Groundnut, Finger millet, maize, sesame, Bengal gram and pulses  b) Horticulture – Coconut, Arecanut, Banana, Onion, Tomato, Vegetables, watermelon  c) Livestock enterprises : Dairy farming, Sheep & Goat rearing, Poultry |
| 2 | Southern Transitional Zone (Zone-7): Tarikere  a) Agriculture – Sunflower, Groundnut, Jowar, Paddy, Fingermillet, Bengalgram, Ragi, Sugarcane, Maize  b) Horticulture – Coconut, Arecanut, Banana, Onion, Chilli, Potato, Mango  c) Livestock enterprises : Dairy farming, Sheep & Goat rearing, Poultry and Fisheries |
| 3 | Hill Zone (Zone-9): 1) Situation – 2 (Mudigere)  a) Agriculture – Mono-cropping: Paddy  b) Horticulture – a) Coffee based: Coffee + Pepper, b) Cardamom based: Cardamom+Pepper c) Areca based – Areca + Pepper, Areca + Banana, Areca + Banana + Cardamom  c) Livestock Enterprises – Dairy, Piggery, Fisheries  2) Situation – 3 (Koppa & Sringeri)  a) Agriculture – Mono-cropping: Paddy , Double-cropping: Paddy-vegetable  b) Horticulture – a) Coffee based: Coffee + Pepper b) Areca based – Areca + Pepper, Areca + Pepper+ Banana, Areca + Cocoa  c) Livestock Enterprises – Fisheries, Dairy, Piggery  3) Situation-4 (N.R. Pura and Chikmagalur)  a) Agriculture – Mono-cropping: Paddy, Maize, Groundnut, Sugarcane , Double-cropping: Paddy-Pulses, Paddy-Groundnut  b) Horticulture – Arecanut, potato, chilli, tomato, potato, Cole crops  i) Coffee based: Coffee + Pepper  ii) Areca based – Areca + Pepper, Areca + Cardamom, Areca + Pepper + Cardamom, Areca + Pepper + Banana  iii) Livestock Enterprises – Dairy, Piggery, Poultry, Fisheries |

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

|  |  |  |
| --- | --- | --- |
| S. No | Agro-climatic Zone | Characteristics |
|  | Central dry Zone (Zone-4) | Soils are derived from igneous and montmorillonite clay with high fertility status high in water holding capacity and ECE. These are deep soils rich in micronutrients except some patches |
|  | Southern Transitional Zone (Zone-7) | Comparatively plain lands, less vegetation, high temperature, soils are predominantly sandy, high in water holding capacity and ECE. This soils are deep and sufficient in micronutrients |
|  | Hill Zone  (Zone-9) | Comparatively dense forest based. Hilly tracks, moderate temperature, high & medium rainfall. The soils are yellow, deep with reddish brown to black in colour. Soils are low in CEC with medium water holding capacity and low in fertility status. |

|  |  |  |
| --- | --- | --- |
| S. No | Agro ecological situation | Characteristics |
| 1 | Central Dry Zone  (Zone-4) | Red sandy clayey to silt loam |
| 2. Southern Transitional Zone (Zone-7) - Tarikere | | |
| 1 | AES-3 | Red loam |
| 2 | AES-5 | Red sandy |
| 3 | AES-6 | Red & black soil |
| 4 | AES-7 | Irrigated, scattered in all AES of zone |
| 5 | AES-8 | Scattered in all AES of zone |
|  | III. Hill Zone (Zone-9) |  |
| 1 | High elevation and high rainfall belt | Major coffee and cardamom belt  Mixed plantation Rainfed long duration Kharif paddy, drill sowing in uplands and midlands, pulses only in borders adjoining transition zone |
| 2 | Medium elevation and very high rainfall belt | Coffee is dominant crop, mixed plantation, rainfed, long duration Kharif paddy. |
| 3 | Medium elevation and medium rainfall belt | Dominated by rainfed Kharif paddy, mixed plantation crops, coffee is the major plantation crop, acidic soils, drill sown paddy in uplands and midlands |

2.3 Soil type/s

|  |  |  |  |
| --- | --- | --- | --- |
| S. No | Soil type | Characteristics | Area in ha |
| 1 | Central dry Zone  (Zone-4) - Red sandy and medium black soils | Low in organic carbon content, high in potash, medium in phosphorous | 513’ 000 ha. |
| 2 | Southern Transitional Zone (Zone-7)- Red loam Red sandy Red & black soil Lateritic, red sandy Red sandy | Predominantly sandy soils shallow to moderate deep, reddish brown to black in colour and gravelly loamy sand to sand loamy in texture, the soils are low in cation exchange capacity low base saturation and low water holding capacity. The soils under this AES are medium in fertility well drained and respond well to irrigation, manuring and other management practices. |
| 3 | Hill Zone (Zone-9) Red loam, sandy loam to clayey | Shallow to medium in depth, low in base saturation, low in water holding capacity and cat ion exchange capacity, high inorganic matter content and poor in potash, lime and phosphorous soils are acidic in nature | 208.7’000 ha. |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S. No | Crop | Area (ha) | Production (Metric tons) | Productivity (kg /ha) |
| 1 | Paddy | 33723 | 4500 | 151754 |
| 2 | Maize | 26140 | 2150 | 56201 |
| 3 | Groundnut | 6060 | 850 | 5151 |
| 4 | Cotton | 1268 | 1100 | 8205 |
| 5 | Sugarcane | 1600 | 95 (t/ha) | 135850 |
| 6 | Hybrid jowar | 488 | 850 | 415 |
| 7 | Ragi | 44595 | 1550 | 69122 |
| 8 | Tur | 785 | 650 | 510 |
| 9 | Cowpea | 1000 | 650 | 650 |
| 10 | Horsegram | 1730 | 650 | 1125 |
| 11 | Blackgram | 890 | 550 | 490 |
| 12 | Greengram | 4078 | 550 | 2243 |
| 13 | Avare | 3030 | 650 | 1970 |
| 14 | Bengal gram | 10240 | 1500 | 15360 |
| 15 | Sunflower | 4469 | 850 | 3799 |
| 16 | Arecanut | 43459.00 | 53649.83 | 1230 |
| 17 | Coffee | 88645  ( Arabica - 56995 Robusta – 31650 ) | 76855 | 867 |
| 18 | Coconut | 43083.00 | 3451.63 | 80 |
| 19 | Black pepper | 8334.40 | 2678 | 320 |
| 20 | Cardamom | 2875.00 | 483.36 | 170 |
| 21 | Turmeric | 311.50 | 5157.40 | 16560 |
| 22 | Vanilla | 139.00 | 64.57 | 460 |
| 23 | Chilly | 3023.00 | 4034.50 | 1330 |
| 24 | Ginger | 1809.60 | 20724.40 | 11450 |
| 25 | Marigold | 387.40 | 1799.40 | 4640 |
| 26 | Brinjal | 276.10 | 6471.25 | 23438 |
| 27 | Tomato | 2833.20 | 62676.50 | 22120 |
| 28 | Cabbage | 423.80 | 8106.20 | 19130 |
| 29 | Beans | 619.50 | 5549.50 | 8960 |
| 30 | Onion | 7268.00 | 117727.00 | 16200 |
| 31 | Potato | 4221.70 | 56221.84 | 13320 |
| 32 | Tapioca | 175 | 2520.00 | 14400 |
| 33 | Mango | 4361 | 52727 | 12000 |
| 34 | Sapota | 1246 | 14852 | 11920 |
| 35 | Banana | 5232.9 | 130472.99 | 24930 |
| 36 | Pineapple | 23 | 1405 | 61110 |
| 37 | Lemon | 539 | 12702 | 23560 |
| 38 | Orange | 926 | 17797 | 19217 |
| 39 | Guava | 120 | 1949.7 | 16250 |

\* ***Source of information: Department of Agriculture, Chikkamagaluru***

**2.5. Weather data**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Month | Rainfall (mm) | Temperature 0 C | | Relative Humidity (%) |
|  |  | Maximum | Minimum |  |
| January | Nil | 31.19 | 20.32 | 80.48 |
| February | Nil | 31.5 | 20.35 | 81.89 |
| March | 39.7 | 32.41 | 20.58 | 69.80 |
| April | 113.6 | 29.43 | 20.4 | 62.7 |
| May | 289.2 | 27.41 | 19.96 | 58.09 |
| June | 700.1 | 24.16 | 20.76 | 72.96 |
| July | 602.5 | 22.83 | 19.51 | 72.03 |
| August | 497.5 | 23.16 | 18.38 | 61.70 |
| September | 120 | 25.73 | 18.6 | 45.16 |
| October | 113.6 | 27.06 | 18.54 | 44.93 |
| November | 23.4 | 29.46 | 24.03 | 38.9 |
| December | 12.1 | 27.80 | 18.35 | 24.80 |
| Total | 2503.7 | 332.14 | 239.78 | 992.37 |

\* ***Source of information*** : ZAHRS, Mudigere

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Category** | **Population** | **Production** | **Productivity** |
| **Cattle** | | | |
| *Crossbred* | 79836 |  |  |
| *Indigenous* | 257740 |  |  |
| **Buffalo** | 70870 |  |  |
| **Sheep** | | | |
| Crossbred | - |  |  |
| *Indigenous* | 91155 |  |  |
| **Goats** | 46068 |  |  |
| **Pigs** | - |  |  |
| *Crossbred* | 1285 |  |  |
| *Indigenous* | 1059 |  |  |
| **Rabbits** |  |  |  |
| **Poultry** | | | |
| Hens | 1178382 |  |  |
| *Desi* | **-** |  |  |
| *Improved* | **-** |  |  |
| Ducks | **-** |  |  |
| Turkey and others | **-** |  |  |

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

***Source of information: Department of Agriculture, Chikkamagaluru & Chikkamagaluru dist. Statistical report***

* 1. District profile maintained in the KVK 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 (specify the years)** | **Major crops & enterprises** | **Major problem identified** | **Identified Thrust Areas** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | Mudigere | Bankal | Badavanadinne, Sabbenahalli, Bettagere | 3 | Paddy  Coffee  Black pepper  Arecanut  Ginger  Banana  Maize  Kitchen garden  Cattle , Poultry  Piggery  Ground nut Coconut Tomato Vegetables | * Decline in paddy yields due to pest, disease and weed incidence * Non availability of varieties * Labour shortage * Non awareness about soil reclamation procedures, nutrient management, severe nutrient loss and poor nutrient use efficiency * Coffee stem borer and leaf rust management * Bunchy top and sigatoka leaf spot incidence in banana * Low yield of pepper due to poor fruit set and severe shedding of berries * Nutrient management practices in pepper and coffee * Severe wilt/foot rot incidence and poor processing and value addition | * Acid soil management * Integrated nutrient management * Integrated pest & disease management * Mechanization * Introduction of high yielding variety * Livestock management |
| 2 | Chikkamagaluru | Lakya | Lakya, Devagondanahally, Hiregouja**,** | 2 | Ground nut Coconut Tomato Vegetables  Maize  Arecanut  Onion  Potato | * Nutrient deficiency in groundnut * Pest & disease in vegetables * Nutrient deficiency in maize * Water management * IPDM in coconut * Alternative crops in protected cultivation | * Integrated nutrient management * Integrated pest & disease management * Mechanization * Introduction of high yielding variety * Livestock management |
| 3 | Kadur | Hirenalluru | Hirenallur, Giriyapura, Chikkanallur | 3 | Fingermillet  Ground nut  Bengal gram  Arecanut  Tomato  Pulses  Potato  Banana  Onion  Jowar  Sunflower  Maize  coconut,  Chilli  Beans  Jasmine  Rose  Aster  Marigold  Watermelon Cattle,  Sheep | * Low rainfall/drought prone area * Use of local/traditional variety which are poor yielders and non adoption of improved package of practices in agriculture and horticulture crops * Pest incidence in Bengalgram * Incidence of sucking pests (thrips), fruit fly, flower drop, fruit cracking in vegetable crops * Incidence of thrips and purple blotch in Onion * Incidence of early and late blight in tomato and potato * Stem bleeding, Ganoderma disease, red palm weevil and black headed hairy catterpiller incidence in coconut * Nutrient management and intercropping in coconut * Spindle bug inflorescence, die back in arecanut * Unscientific management of ruminants especially sheep and goats | * Integrated nutrient management * Integrated pest & disease management * Mechanization * Introduction of high yielding variety * Livestock management |
| 4 | Tarikere | Ajjampura,, Bagvahally, Channapura | Ajjampura | 1 | Fingermillet  Ground nut  Bengal gram  Arecanut  Tomato  Pulses  Potato  Mango  Onion  Jowar  Sunflower  Maize  Coconut,  Chilli  Beans  Marigold  Watermelon Cattle,  Sheep | * Use of local/traditional variety which are poor yielders and non adoption of improved package of practices in agriculture and horticulture crops * Pest incidence in Bengalgram * Incidence of sucking pests (thrips), fruit fly, flower drop, fruit cracking in vegetable crops * Incidence of thrips and purple blotch in Onion * Incidence of early and late blight in tomato and potato * Stem bleeding, Ganoderma disease, red palm weevil and black headed hairy catterpiller incidence in coconut * Nutrient deficiency in arecanut | * Integrated nutrient management * Integrated pest & disease management * Mechanization * Introduction of high yielding variety * Livestock management |
| 5 | Sringeri & Koppa | Kunchebylu, Menase , Narve | Shringeri | 1 | Areca nut,  Banana,  Paddy, Pepper, coffee, Piggery  Elephant yam | * Poor nutrient management in agril. & hortl. crops * Poor soil fertility * Yellow leaf disease in Arecanut * Severe incidence of pest & disease in paddy and arecanut * Koleruga in arecanut * Root grub in arecanut * Unscientific piggery management | * Integrated nutrient management * Integrated pest and disease management |
| 6 | N.R. Pura, | Bale, Shivguvani, Vagade | Bale | 2 | Areca nut,  Banana,  Paddy, Pepper, coffee, Piggery  Rubber | * Poor nutrient management in agril. & hortl. crops * Poor soil fertility * Yellow leaf disease in Arecanut * Severe incidence of pest & disease in paddy and arecanut * Koleruga in arecanut * Root grub in arecanut * Unscientific piggery management * Nutrient deficiency in maize | * Integrated nutrient management * Integrated pest and disease management |

**2.9 Priority thrust areas**

|  |  |
| --- | --- |
| **S. No** | **Thrust area** |
| 1 | Acidic soil management |
| 2 | Introduction of promising varieties /hybrids in paddy, bengal gram, vegetables, fodder. |
| 3 | Nutrient management in pepper, banana, groundnut, bengal gram |
| 4 | IPDM in Pulses and plantation |
| 5 | Value addition, Branding & Marketing in pepper and millets |
| 6 | Entrepreneurship in Aquaculture, Mushroom production , quality honey production ,nursery technique |
| 7 | Mechanization in paddy & pepper |

**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** |
| 02 | 02 | 10 | 10 | 08 | 08 | 150 | 150 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Training** | | | | **Extension Programmes** | | | |
| **3** | | | | **4** | | | |
| **Courses (No.)** | | **Participants (No.)** | | **Programmes (No.)** | | **Participants (No.)** | |
| **Target** | **Achievement** | **Target** | **Achievement** | **Target** | **Achievement** | **Target** | **Achievement** |
| 96 | 148 | 2500 | 3671 | 1589 | 2271 | 2.15 | 2.84 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Seed Production (Q)** | | **Planting material (Nos.)** | |
| **5** | | **6** | |
| **Target** | **Achievement** | **Target** | **Achievement** |
| - | - | 30000 | 18019 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Livestock, poultry strains and fingerlings (No.)** | | **Bio-products (Kg)** | |
| **7** | | **8** | |
| **Target** | **Achievement** | **Target** | **Achievement** |
| 5000 | 6839 | Vermi compost | 232 |
|  |  | Mushroom spawn (Kg) | 162.75 |
|  |  | RTF Mushroom bags (No.) | 72 |
|  |  | Trichoderma (Kg) | 81 |

**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** | |
| **1** | Integrated nutrient management | Maize | Low yield due to improper fertilizer  application and soils with micronutrients deficiency | Assessment of nutrients to increase the maize yield | **-** | 3 | **-** | **-** | Group discussion (01)  Advisory services (03)  Field visit (02) | **-** | **-** | **-** | **No.** | **Kg** |
| 2 | Pest & disease management | Black pepper | Complex problem - slow wilt, quick wilt, root mealy bugs, stress leading to yellowing of vines, incidence upto 40% infestation | Assessment for Effective management of wilt (slow & quick ) in black pepper | - | 5 | - | - | Group discussion (01)  Advisory services (03)  Field visit (02) | - | - | - | Arka microbial consortium- | 18kg |
| 3 | Integrated nutrient management | Groundnut | Low yield due to Improper micronutrient application, lack of knowledge regarding bio - fertilizer use and soil test based fertilizer application |  | Integrated nutrient management in Groundnut | 2 | - | - | Group discussion (01)  Advisory services (03)  Field visit (02) | - | - | - | - | - |
| 4 | Intercropping with new variety | Chilly | Low income, low yield, mono cropping |  | Intercropping onion and Chilly for higher income | 2 | - | - | Group discussion (01)  Advisory services (03)  Field visit (02) | Arka Kyathi-1kg | - | - | - | - |
| 5 | Integrated crop management | Paddy | Incidence of blast disease |  | Demonstration of Paddy variety KPR-1 | 4 | - | - | Group discussion (01)  Advisory services (03)  Field visit (02) | KPR-1 – 625 kg | - | - | - | - |
| 6 | Integrated pest & disease management | Paddy | Low yield, Weed menace, Imbalanced fertilizer use.  Incidence of blast and udabatta diseases, Case worm & leaf roller pests |  | Integrated pest & disease management in Paddy | 4 | - | - | Group discussion (01)  Advisory services (03)  Field visit (02) | - | - | - | - | - |
| 7 | Nutritional security | Nutri-Farms | Malnutrition, lack of awareness about nutritious food, non-utilization of resources-Water, Space & organic waste |  | Demonstration of Nutri-Farms For Year Round Nutrition Security Among Farm Families | 3 | - | - | Group discussion (01)  Advisory services (03)  Field visit (02) | Cow pea-2kg  Radish-2kg Coriander-3kg  Palak-3kg  Amaranthus-3 kg  Bhendi-2kg  Pumpkin-250g  Ridge guard-250g | - | - | - | - |
| 8 | Integrated pest management | Black pepper | Incidence of termite on standards used for pepper vine cultivation leading to dislodging and death of vines |  | Management of Termites in black pepper | 6 | - | - | Group discussion (01)  Advisory services (03)  Field visit (02) | - | - | - | Reptor | 75kg |
| 9 | Integrated pest management | Tomato | Incidence of leaf miner pest in tomato (Up to 50%) |  | Management of tomato leaf miner –Tuta absoluta | 3 | - | - | Group discussion (01)  Advisory services (03)  Field visit (02) | - | - | - | Traps-144+8  lure-144+8 | - |
| 10 | Introduction of new variety of fish | Fish | Less survivability of carps compare to tilapia, less stocking density and less utility of seasonal water bodies |  | Introduction of Tilapia under feed based aquaculture | 5 | - | - | Group discussion (01)  Advisory services (03)  Field visit (02) | - | - | GMT tilapia fingerlings-5850 no. | - | - |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No** | **Title of Technology** | **Source of technology** | **Crop/enterprise** | **No.of programmes conducted** | | | |
| **OFT** | **FLD** | **Training** | **Others (Specify)** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** |
| 1 | Assessment of nutrients to increase the maize yield | UAS (B) | Maize | 1 | 1 | 3 | Group discussion (01)  Advisory services (03), Field visit (02) |
| 2 | Assessment for Effective management of wilt (slow & quick ) in black pepper | UAS (B) | Black pepper | 1 | 1 | 5 | Group discussion (01)  Advisory services (03), Field visit (02) |
| 3 | Integrated nutrient management in Groundnut | UAS, Bengaluru | Groundnut | - | 1 | 2 | Group discussion (01)  Advisory services (03), Field visit (02) |
| 4 | Intercropping onion and Chilly for higher income | IIHR, (B) | Chilly | - | 1 | 2 | Group discussion (01)  Advisory services (03), Field visit (02) |
| 5 | Demonstration of Paddy variety KPR-1 | UAHS (S) | Paddy | - | 1 | 4 | Group discussion (01)  Advisory services (03), Field visit (02) |
| 6 | Integrated pest & disease management in Paddy | UAS (B) | Paddy | - | 1 | 4 | Group discussion (01)  Advisory services (03), Field visit (02) |
| 7 | Demonstration of Nutri-Farms For Year Round Nutrition Security Among Farm Families | UAS(B) | Nutri-Farms | - | 1 | 3 | Group discussion (01)  Advisory services (03), Field visit (02) |
| 8 | Management of Termites in black pepper | NBAIR | Black pepper | - | 1 | 6 | Group discussion (01)  Advisory services (03), Field visit (02) |
| 9 | Management of tomato leaf miner –Tuta absoluta | UAS (R) & UAS (B) | Tomato | - | 1 | 3 | Group discussion (01)  Advisory services (03), Field visit (02) |
| 10 | Introduction of Tilapia under feed based aquaculture | CIFA, Bhuvaneshwara | Fish | - | 1 | 5 | Group discussion (01)  Advisory services (03), Field visit (02) |

**3.B2 contd..**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No. of farmers covered** | | | | | | | | | | | | | | | |
| **OFT** | | | | **FLD** | | | | **Training** | | | | **Others (Specify)** | | | |
| **General** | | **SC/ST** | | **General** | | **SC/ST** | | **General** | | **SC/ST** | | **General** | | **SC/ST** | |
| **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** |
| **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | **19** | **20** | **21** | **22** | **23** | **24** |
| 2 | - | 3 | - | - | - | - | - | 64 | 1 | 13 | 1 | - | - | - | - |
| 5 | - | - | - | - | - | - | - | 106 | 3 | - | - | - | - | - | - |
| - | - | - | - | 20 | - | - | - | 33 | 3 | - | - | 16 | - | - | - |
| - | - | - | - | 16 | 4 | - | - | 25 | - | - | - | 21 | - | - | - |
| - | - | - | - | 25 | - | - | - | 53 | 11 | - | - | 31 | - | - | - |
| - | - | - | - | 23 | 2 | - | - | 82 | 28 | - | - | 17 | - | - | - |
| - | - | - | - | 6 | 2 | 2 |  | 58 | 157 | 13 | 20 | - | - | - | - |
| - | - | - | - | 24 | 1 | - | - | 96 | 65 | 12 | 12 | - | - | - | - |
| - | - | - | - | 20 | 1 | 4 |  | 34 | - | 4 | - | 30 | 2 | 8 | - |
| - | - | - | - | 5 | - | - | - | 5 | 60 | 2 | 20 | - | - | - | - |

**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 | 01 |  |  |  |  |  |  |  |  | 01 |
| Varietal Evaluation |  |  |  |  |  |  |  |  |  |  |
| Integrated Pest Management |  |  |  |  |  |  |  |  |  |  |
| Integrated Crop Management |  |  |  |  |  |  |  |  |  |  |
| Integrated Disease Management |  |  |  |  |  |  |  | 01 |  | 01 |
| Small Scale Income Generation Enterprises |  |  |  |  |  |  |  |  |  |  |
| Weed Management |  |  |  |  |  |  |  |  |  |  |
| Resource Conservation Technology |  |  |  |  |  |  |  |  |  |  |
| Farm Machineries |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming System |  |  |  |  |  |  |  |  |  |  |
| Seed / Plant production |  |  |  |  |  |  |  |  |  |  |
| Value addition |  |  |  |  |  |  |  |  |  |  |
| Drudgery Reduction |  |  |  |  |  |  |  |  |  |  |
| Storage Technique |  |  |  |  |  |  |  |  |  |  |
| Mushroom cultivation |  |  |  |  |  |  |  |  |  |  |
| **Total** | **01** |  |  |  |  |  |  | **01** |  | **01** |

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

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

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Thematic areas** | **Cattle** | **Poultry** | **Piggery** | **Rabbit** | **Fisheries** | **TOTAL** |
| Evaluation of Breeds |  |  |  |  |  |  |
| Nutrition Management |  |  |  |  |  |  |
| Disease of Management |  |  |  |  |  |  |
| Value Addition |  |  |  |  |  |  |
| Production and Management |  |  |  |  |  |  |
| Feed and Fodder |  |  |  |  |  |  |
| Small Scale income generating enterprises |  |  |  |  |  |  |
| **TOTAL** |  |  |  |  |  |  |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Thematic areas** | **Cattle** | **Poultry** | **Piggery** | **Rabbit** | **Fisheries** | **TOTAL** |
| Evaluation of Breeds |  |  |  |  |  |  |
| Nutrition Management |  |  |  |  |  |  |
| Disease of Management |  |  |  |  |  |  |
| Value Addition |  |  |  |  |  |  |
| Production and Management |  |  |  |  |  |  |
| Feed and Fodder |  |  |  |  |  |  |
| Small Scale income generating enterprises |  |  |  |  |  |  |
| **TOTAL** |  |  |  |  |  |  |

**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 | Maize | Assessment of nutrients to increase the maize yield | 05 | 05 | 5.0 |
|  |  |  |  |  |
| Varietal Evaluation |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Pest Management |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Crop Management |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Disease Management | Pepper | Assessment for Effective management of wilt (slow & quick ) in black pepper | 05 | 05 | 2.5 |
|  |  |  |  |  |
| Small Scale Income Generation Enterprises |  |  |  |  |  |
|  |  |  |  |  |
| Weed Management |  |  |  |  |  |
|  |  |  |  |  |
| Resource Conservation Technology |  |  |  |  |  |
|  |  |  |  |  |
| Farm Machineries |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Farming System |  |  |  |  |  |
|  |  |  |  |  |
| Seed / Plant production |  |  |  |  |  |
|  |  |  |  |  |
| Value addition |  |  |  |  |  |
|  |  |  |  |  |
| Drudgery Reduction |  |  |  |  |  |
|  |  |  |  |  |
| Storage Technique |  |  |  |  |  |
|  |  |  |  |  |
| Mushroom cultivation |  |  |  |  |  |
|  |  |  |  |  |
| **Total** |  |  | **10** | **10** | **7.5** |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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 |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Crop Management |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Disease Management |  |  |  |  |  |
|  |  |  |  |  |
| Small Scale Income Generation Enterprises |  |  |  |  |  |
|  |  |  |  |  |
| Weed Management |  |  |  |  |  |
|  |  |  |  |  |
| Resource Conservation Technology |  |  |  |  |  |
|  |  |  |  |  |
| Farm Machineries |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Farming System |  |  |  |  |  |
|  |  |  |  |  |
| Seed / Plant production |  |  |  |  |  |
|  |  |  |  |  |
| Value addition |  |  |  |  |  |
|  |  |  |  |  |
| Drudgery Reduction |  |  |  |  |  |
|  |  |  |  |  |
| Storage Technique |  |  |  |  |  |
|  |  |  |  |  |
| Mushroom cultivation |  |  |  |  |  |
|  |  |  |  |  |
| **Total** |  |  |  |  |  |

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

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

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

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

**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 |
| Maize | Rainfed | Low yield due to improper fertilizer application and soils are showing micronutrient deficiency, improper micronutrient usage | Assessment of nutrients to increase the maize yield | 05 | T.O.1 Imbalanced application of nutrients 2bags of complex i.e. 17:17:17 or DAP | UAS, Bengaluru | 23.2 | q/ha | Plant population (%)-96  Plant height (cm)-163.1  Plant girth (cm) -2.6  Cob length (cm)-14.3  Cob weight (g)-414 | 25980 | 1.57 |  |
| T.O.2 Rec. NPK- 100:50:25Kg/ha + ZnSo4 -10Kg/ha (UAS(B)) | 27 | q/ha | Plant population (%) -96  Plant height (cm)-165.2  Plant girth (cm)-3.2  Cob length (cm)-17  Cob weight (g)-440 | 31500 | 1.85 |  |
| T.O.3 Rec. NPK + Maize maxim: 7.5kg/ha (TNAU) | 26 | q/ha | Plant population (%)-96  Plant height (cm)-164.1  Plant girth (cm)-3.0  Cob length (cm)-16.3  Cob weight (g)-426 | 28970 | 1.73 |  |
| Black Pepper | Rainfed | Complex problem - slow wilt, quick wilt, root mealy bugs, stress leading to yellowing of vines, incidence upto 40% infestation | Assessment for Effective management of wilt (slow & quick ) in black pepper | 05 | T.O.1 Drenching of COC and 1% bordeux spray | UAS (B) | 475 | kg/30 vines | Per cent yellowing of vines (%)  Before spray -20.91  After spray -37.40  Dry yield (kg/30 vines) -142.2 | 32025 | 2.13 |  |
| T.O.2   * Soil application of Carbosulfan 25 EC– 2ml/litre * Spraying of carbendazim - 2g per litre @ post monsoon | 600 | kg/30 vines | Per cent yellowing of vines (%)  Before spray -32.34  After spray -35.93  Dry yield (kg/30 vines) -180 | 43800 | 2.80 |  |
| T.O.3   * Spraying 1% pseudomonas   10 ml/litre   * Soil application of FYM enriched   Arka microbial consortium 25g/litre and Arka actinoplus | 650 | kg/30 vines | Per cent yellowing of vines (%)  Before spray -44.11  After spray -24.68  Dry yield (kg/30 vines) -195 | 48150 | 2.97 |  |

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

1. Title of Technology Assessed : **Assessment of nutrients to increase the Maize yield**

2. Performance of the Technology on specific indicators : **Treatment with application of recommended fertilizer and ZnSO4 (T2) application recorded highest yield (27 t/ha ) followed by treatment with spray of micronutrient maize maxim (T3) (26 t/ha).**

**Higher yield in T2 and T3 are attributed to higher cob weight compared to farmer application.**

3.Specific Feedback from farmers : **Soil application of ZnSO4 gained higher yield compared to micronutrient spray.**

**Application of nutrient to soil is much easier compared to foliar spray in maize.**

4.Specific Feedback from Extension personnel and other stakeholders

5. Feedback to Research System based on results and feedback received: **Treatment with soil application of ZnSO4 along with recommended dose of fertilizers can be**

**recommended to farmers while cultivating maize.**

**Department of Agriculture has taken this technology for further implementation**

1. Title of Technology Assessed : **Assessment for Effective management of wilt (slow & quick ) in black pepper**

2. Performance of the Technology on specific indicators : **Technology option 3 with Soil application of Arka microbial consortium 25g/litre and Arka actinoplus recorded lowest death of vines which recorded per cent yellowing of vines (24.68 ) followed by treatment 2 with Soil application of Carbosulfan & Spraying of carbendazim ( 35.93) compared to farmer practice (37.40)**

3.Specific Feedback from farmers : **Soil application of microbial agents reduced the yellowing of vines with less mortality and gaining good yield**

4.Specific Feedback from Extension personnel and other stakeholders

5. Feedback to Research System based on results and feedback received: **The technology has been continued for second season for confirmation of results**

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

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

4.D.2. Details of Technologies refined:

1. Title of Technology Refined

2. Performance of the Technology on specific indicators

3. Specific Feedback from farmers

4. Specific Feedback from Extension personnel and other stakeholders

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

**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 |
| 1 | Oilseeds | Rainfed | Kharif/  summer | Groundnut | GPBD-4 | - | Integrated nutrient management | 1. FYM-7.5 ton/ha 2. Rhizobium-375 gm/ha 3. PSB- 1 kg/ha 4. RDF-27:75:25 kg NPK/ha 5. Borax-10 kg/ha 6. ZnSO4-10 kg/ha 7. Application of Gypsum @ 500kg / ha at the time of last inter cultivation | 8.0 | 8.0 | - | 20 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | Pulses |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | Cereals | Rainfed | Kharif/  summer | Paddy | KPR-1 |  | Integrated crop management | Paddy variety KPR-1 | 10.0 | 10.0 | - | 25 |  |  |
| 4 | Rainfed | Kharif | Paddy | Tunga |  | Integrated pest & disease management | * Tunga seed (62 Kg/ ha) * 100Kg+50 Kg+ 50Kg NPK/ha +20 Kg zinc sulphate /ha (Soil application) + 1Kg/ ha Azospirillum * Seed treatment with Carbendazim 25 + Mancozeb 50 WS @ 4 gms / kg of seed * Spraying with tricyclazole – 0.6 gms/lit. * Spraying of Flubendiamide- 20 ml/200 lit. | 10.0 | 10.0 | - | 25 |  |  |
| 5 | Millets |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | Vegetables | Irrigated | Kharif | Chilli | Arka Kyathi |  | Intercropping with new variety | 1. RDF (100:50:50 NPK kg/ha )   + FYM 25 t/ha   1. Hybrid chilli (Arka kyathi) 2. Vegetable special | 8.0 | 8.0 | - | 20 |  |  |
| 7 | Irrigated | Summer | Tomato | Virang |  | Integrated pest management | * Use of traps (Water+lure) * Spray of Chemical   Chlorantraniliprole 18.5 SC (0.3ml/litre) | 4.0 | 10.0 | 2 | 23 |  |  |
| 8 | Rainfed/  irrigated | Kharif | Nutri-farm | Nutri-farm |  | Nutritional security | Nutri-farms | 1.0 | 1000 sq.m. | 1 | 4 |  |  |
| 9 | Flowers |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Ornamental |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | Fruit |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | Spices and condiments | Rabi/  summer | Rainfed | Black pepper | Paniyur |  | Integrated pest management | Use of raptor as termite repellent @15g/l  (drenching 3 litres/tree) | 10.0 | 10.0 | 1 | 24 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | Commercial |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | Medicinal and aromatic |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | Fodder |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 | Plantation |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | Fibre |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | Dairy |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 | Poultry |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | Rabbitry |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | Piggery |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | Sheep and goat |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 | Duckery |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 | Common carps |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 | Mussels |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26 | Ornamental fishes |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27 | Oyster mushroom |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28 | Button mushroom |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29 | Vermicompost |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30 | Sericulture |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31 | Apiculture |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 32 | Implements |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 33 | Others (Fishery) | Rabi/  summer | Kharif/  summer | Fish | Tilapia |  | Introduction of new variety of fish | * Application of lime * Removal of unwanted fishes * Net covering * Manuring by cow dung (300gm/sq mt) * Stocking of tilapia fishes * Feeding through floating feeds | 2500 sq.m. | 2500 sq.m. | - | 5 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Category** | **Farming**  **Situation** | **Season**  **and**  **Year** | **Crop** | **Variety/ breed** | **Hybrid** | **Thematic area** | **Technology Demonstrated** | **Season and year** | **Status of soil** | | | **Previous crop grown** |
| N | P | K |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1. | Oilseeds | Rainfed | Kharif/  summer | Groundnut | GPBD-4 | - | Integrated nutrient management | 1. FYM-7.5 ton/ha 2. Rhizobium-375 gm/ha 3. PSB- 1 kg/ha 4. RDF-27:75:25 kg NPK/ha 5. Borax-10 kg/ha 6. ZnSO4-10 kg/ha 7. Application of Gypsum @ 500kg / ha at the time of last inter cultivation | 2018 | 309.2 | 23.23 | 195.8 | Onion, maize |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | Pulses |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | Cereals | Rainfed | Kharif/  summer | Paddy | KPR-1 | - | Integrated crop management | Paddy variety KPR-1 | 2018 | 312 | 37 | 202 | Paddy |
|  |  | Rainfed | Kharif | Paddy | Tunga | - | Integrated pest & disease management | * Tunga seed (62 Kg/ ha) * 100Kg+50 Kg+ 50Kg NPK/ha +20 Kg zinc sulphate /ha (Soil application) + 1Kg/ ha Azospirillum * Seed treatment with Carbendazim 25 + Mancozeb 50 WS @ 4 gms / kg of seed * Spraying with tricyclazole – 0.6 gms/lit. * Spraying of Flubendiamide- 20 ml/200 lit. | 2018 | 326 | 43 | 198 | Paddy |
| 3 | Millets |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | Vegetables | Irrigated | Kharif | Chilli | Arka Kyathi | - | Intercropping with new variety | 1. RDF (100:50:50 NPK kg/ha )   + FYM 25 t/ha   1. Hybrid chilli (Arka kyathi) 2. Vegetable special | 2018 | 296 | 34 | 211 | Tomato, chilli, onion |
|  |  | Irrigated | Summer | Tomato | Virang | - | Integrated pest management | * Use of traps (Water+lure) * Spray of Chemical   Chlorantraniliprole 18.5 SC (0.3ml/litre) | 2018 | 302 | 24 | 198 | Tomato cotton |
|  |  | Rainfed/  irrigated | Kharif | Nutri-farm | Nutri-farm | - | Nutritional security | Nutri-farms | 2018 | 311 | 37 | 209 | Vegetables |
| 5 | Flowers |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | Ornamental |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | Fruit |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | Spices and condiments | Rabi/  summer | Rainfed | Black pepper | Paniyur | - | Integrated pest management | Use of raptor as termite repellent @15g/l  (drenching 3 litres/tree) | 2018 | 326 | 47 | 208 | Black pepper |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | Commercial |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Medicinal and aromatic |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | Fodder |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | Plantation |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | 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 | Integrated nutrient management in Groundnut | GPBD-4 | - | Rainfed | 20 | 8.0 | 17 | 12.5 | 14.76 | 13.50 | 8.5 | 22500 | 59050 | 36550 | 2.62 | 22000 | 54000 | 32000 | 2.45 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pulses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cereals | Demonstration of Paddy variety KPR-1 | KPR-1 | - | Rainfed | 25 | 10 | 70 | 45 | 55.20 | 47.5 | 16.21 | 45000 | 106600 | 61600 | 2.36 | 54000 | 93125 | 39125 | 1.72 |
|  | Integrated pest & disease management in Paddy | Tunga | - | Rainfed | 25 | 10 | 65 | 35 | 52.80 | 45 | 14.77 | 48000 | 102400 | 54400 | 2.13 | 59000 | 88750 | 29750 | 1.50 |
| Millets |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vegetables | Intercropping onion and Chilly for higher income | Arka Kyathi | - | Irrigated | 20 | 8.0 | 11.5 | 7.0 | 8.56 | 19.5 | 1.27 | 68950 | 174578 | 105623 | 2.53 | 40000 | 48315 | 8315 | 1.2 |
|  | Management of tomato leaf miner –Tuta absoluta | Virang | - | Irrigated | 25 | 10 | 22.0 | 16.75 | 20.8 | 17.0 | 18.26 | 87499 | 208000 | 120501 | 2.37 | 83540 | 170000 | 86460 | 2.03 |
|  | Demonstration of Nutri-Farms For Year Round Nutrition Security Among Farm Families | Nutri-farm | - | Rainfed/  irrigated | 10 | 1000 sq.m. | 516.8 | 473.4 | 497.36 |  |  | 6525 | 15416.8 | 8891.8 | 2.36 |  |  |  |  |
| Flowers |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ornamental |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fruit |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Spices and condiments | Management of Termites in black pepper | Paniyur | - | Rabi/  summer | 25 | 10 | 6.0 | 3.0 | 4.64 | 3.8 | 18.10 | 99350 | 208980 | 109630 | 2.10 | 99000 | 171000 | 72000 | 1.72 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Commercial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fibre crops like cotton |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Medicinal and aromatic |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fodder |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Plantation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fibre |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (specify) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

\*\* BCR= GROSS RETURN/GROSS COST

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

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

|  |  |  |
| --- | --- | --- |
| **Data on other parameters in relation to technology demonstrated** | | |
| **Parameter with unit** | **Demo** | **Check** |
| **Integrated nutrient management in groundnut** |  |  |
| No. of branches per plant | 13.4 | 10.95 |
| Plant height (cm) | 45.25 | 40.4 |
| No. of pods per plant | 46.75 | 36.6 |
| **Intercropping of Chilli in onion field for higher income** |  |  |
| * Plant height (cm) * Number of branches * Fruit length (cm) * Number of green fruit/plant * Fruit yield of chilli/ plant (kg) * Fruit yield of chilli/ha (t/ha) * Onion bulb yield/m2 (kg) * Onion bulb yield/ha (t/ha) * BC ratio | 82.38  22.73  9.8  30.4  0.72  8.56  1.84  18.4  1.53 | -  -  -  -  -  -  1.95  19.5  0.20 |
| **Demonstration of Paddy variety KPR-1** |  |  |
| Plant height (cm) | 74.64 | 109.40 |
| No. of tillers/hill | 23.0 | 11.6 |
| Blast disease (%) | 0 | 2.34 |
| Panicle length (cm) | 19.2 | 15.3 |
| Straw yield (t/ha) | 1.88 | 1.5 |
| **Integrated pest & disease management in Pa** |  |  |
| Plant height (cm) | 109.24 | 109.40 |
| No. of tillers/hill | 19.56 | 11.6 |
| Blast disease (%) | 0 | 2.34 |
| Case worm (%)  Before Spray  After Spray | 2.32  0.23 | 2.68  2.42 |
| Straw yield (t/ha) | 1.87 | 1.5 |
| **Demonstration of Nutrifarms for year round nutrition  security among farm families** | **Before the demo** | **After the demo** |
| Knowledge on nutrigarden | 37% | 85% |
| Types of vegetable consumed per week | 05 | 12 |
| Fresh vegetable available per week (days) | 02 | 05 |
| Cost of vegetable purchased /week | 170 | 62.5 |
| Physical activity/week (hr) | 4.3 | 6.8 |
| Vegetable yield (kg) for 5 month | - | 497.36 |
| Consumption of vegetables (gm/person/day) | 120 | 209.5 |
| **Management of Termite in black pepper** | |  |
| Per cent pest incidence | |  |
| Before treatment  After treatment | | 10.24  1.12 |
| Percent control | |  |
| Before treatment  After treatment | | 25.6  2.80 |
| **Management of tomato leaf miner –Tuta absoluta** | |  |
| Plant height (cm) | | 52.8 |
| No. of branches per plant | | 5.3 |
| late blight disease incidence (%) | | 1.96 |
| Average moth catch per trap/week | | 13.37 |
| Fruit damage (%) | | 2.76 |

5.B.2. Livestock and related enterprises : Nil

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Type of livestock | Name of the technology demonstrated | Breed | No. of Demo | No.  of Units | Yield (kg/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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Poultry |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rabbitry |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pigerry |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sheep and goat |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Duckery |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (Fisheries) | Introduction of Tilapia under feed based aquaculture | Tilapia | 05 | 2500 sq.m. | 500g | 425g | 475g | 150g | 68.42 | 10000 | 25650 | 15650 | 2.56 | 6500 | 9450 | - | 1.45 |

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

\*\* BCR= GROSS RETURN/GROSS COST

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

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

5.B.3. Fisheries

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Type of Breed | Name of the technology demonstrated | Breed | No. of Demo | Units/ Area (m2) | Yield (q/ha) | | | | % Increase | \*Economics of demonstration Rs./unit) or (Rs./m2) | | | | \*Economics of check  Rs./unit) or (Rs./m2) | | | |
| Demo | | | Check if any | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
|  |  |  |  |  | H | L | A |  |  |  |  |  |  |  |  |  |  |
| Common carps |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mussels |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ornamental fishes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

\*\* BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

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

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

5.B.4. Other enterprises

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Enterprise | Name of the technology demonstrated | Variety/ species | No. of Demo | Units/ Area {m2} | Yield | | | | % Increase | \*Economics of demonstration (Rs./unit) or (Rs./m2) | | | | \*Economics of check  (Rs./unit) or (Rs./m2) | | | |
| Demo | | | Check if any | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
|  |  |  |  |  | H | L | A |  |  |  |  |  |  |  |  |  |  |
| Oyster mushroom |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Button mushroom |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vermicompost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sericulture |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Apiculture |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

\*\* BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

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

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

5.B.5. Farm implements and machinery

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name of the implement | Cost of the implement in Rs. | Name of the technology demonstrated | No. of Demo | Area covered under demo  in ha | Labour requirement in Mandays | | % save | Savings in labour (Rs./ha) | \*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 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

\*\* BCR= GROSS RETURN/GROSS COST

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

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

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Activity** | **No. of activities organised** | **Number of participants** | **Remarks** |
| 1 | Field days | 07 | 156 |  |
| 2 | Farmers Training | 21 | 978 |  |
| 3 | Media coverage | 5 | - |  |
| 4 | Training for extension functionaries | - | - |  |
| 5 | Others (Field days) | 7 | 125 |  |

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

**Demonstration details on crop hybrids : Nil**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 | 1 | 25 | 2 | 27 | - | - | - | 25 | 2 | 27 |
| 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 (Integrated crop management) | 1 | 68 | - | 68 | - | - | - | 68 | - | 68 |
| **b) Fruits** |  |  |  |  |  |  |  |  |  |  |
| Training and Pruning |  |  |  |  |  |  |  |  |  |  |
| Layout and Management of Orchards |  |  |  |  |  |  |  |  |  |  |
| Cultivation of Fruit |  |  |  |  |  |  |  |  |  |  |
| Management of young plants/orchards |  |  |  |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  |  |  |  |  |  |  |  |  |
| Export potential fruits |  |  |  |  |  |  |  |  |  |  |
| Micro irrigation systems of orchards |  |  |  |  |  |  |  |  |  |  |
| Plant propagation techniques |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **c) Ornamental Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery Management |  |  |  |  |  |  |  |  |  |  |
| Management of potted plants |  |  |  |  |  |  |  |  |  |  |
| Export potential of ornamental plants |  |  |  |  |  |  |  |  |  |  |
| Propagation techniques of Ornamental Plants |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **d) Plantation crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **e) Tuber crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **f) Spices** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (Integrated crop management) | 1 | 25 | - | 25 | - | - | - | 25 | - | 25 |
| **g) Medicinal and Aromatic Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Production and management technology |  |  |  |  |  |  |  |  |  |  |
| Post harvest technology and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Soil Health and Fertility Management** |  |  |  |  |  |  |  |  |  |  |
| Soil fertility management |  |  |  |  |  |  |  |  |  |  |
| Integrated water management |  |  |  |  |  |  |  |  |  |  |
| Integrated nutrient management |  |  |  |  |  |  |  |  |  |  |
| Production and use of organic inputs |  |  |  |  |  |  |  |  |  |  |
| Management of Problematic soils |  |  |  |  |  |  |  |  |  |  |
| Micro nutrient deficiency in crops |  |  |  |  |  |  |  |  |  |  |
| Nutrient use efficiency |  |  |  |  |  |  |  |  |  |  |
| Balanced use of fertilizers |  |  |  |  |  |  |  |  |  |  |
| Soil and water testing |  |  |  |  |  |  |  |  |  |  |
| Others (Organic farming) | 2 | 19 | 19 | 38 | - | 6 | 6 | 19 | 24 | 43 |
| **Livestock Production and Management** |  |  |  |  |  |  |  |  |  |  |
| Dairy Management |  |  |  |  |  |  |  |  |  |  |
| Poultry Management |  |  |  |  |  |  |  |  |  |  |
| Piggery Management |  |  |  |  |  |  |  |  |  |  |
| Rabbit Management | 1 | 26 | 10 | 36 | 4 | 2 | 6 | 30 | 12 | 42 |
| Animal Nutrition Management |  |  |  |  |  |  |  |  |  |  |
| Animal Disease Management |  |  |  |  |  |  |  |  |  |  |
| Feed and Fodder technology |  |  |  |  |  |  |  |  |  |  |
| Production of quality animal products |  |  |  |  |  |  |  |  |  |  |
| Others (Rabbit & poultry training) | 1 | 137 | 44 | 181 | 53 | 67 | 120 | 190 | 111 | 301 |
| **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 |  |  |  |  |  |  |  |  |  |  |
| Women empowerment | 5 | 53 | 110 | 163 | 24 | 59 | 83 | 77 | 169 | 246 |
| Location specific drudgery production |  |  |  |  |  |  |  |  |  |  |
| Rural Crafts |  |  |  |  |  |  |  |  |  |  |
| Women and child care |  |  |  |  |  |  |  |  |  |  |
| Others (Mushroom cultivation) | 6 | 86 | 48 | 134 | 10 | 4 | 14 | 96 | 52 | 148 |
| **Agril. Engineering** |  |  |  |  |  |  |  |  |  |  |
| Farm machinery and its maintenance |  |  |  |  |  |  |  |  |  |  |
| Installation and maintenance of micro irrigation systems |  |  |  |  |  |  |  |  |  |  |
| Use of Plastics in farming practices |  |  |  |  |  |  |  |  |  |  |
| Production of small tools and implements |  |  |  |  |  |  |  |  |  |  |
| Repair and maintenance of farm machinery and implements |  |  |  |  |  |  |  |  |  |  |
| Small scale processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Post Harvest Technology |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Plant Protection** |  |  |  |  |  |  |  |  |  |  |
| Integrated Pest Management |  |  |  |  |  |  |  |  |  |  |
| Integrated Disease Management |  |  |  |  |  |  |  |  |  |  |
| Bio-control of pests and diseases |  |  |  |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  |  |  |  |  |  |
| Others (Integrated pest & disease management) | 1 | - | 21 | 21 | - | 9 | 9 | - | 30 | 30 |
| **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 | 12 | 69 | 270 | 339 | 10 | 41 | 51 | 79 | 311 | 390 |
| Others (Agriculture course awareness) | 1 | - | 41 | 41 | - | - | **-** | **-** | 41 | 41 |
| **Agro-forestry** |  |  |  |  |  |  |  |  |  |  |
| Production technologies |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming Systems |  |  |  |  |  |  |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **TOTAL** | **32** | **548** | **565** | **1113** | **101** | **188** | **289** | **649** | **753** | **1402** |

**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 | 4 | 62 | 6 | 68 | - | - | - | 62 | 6 | 68 |
| Soil and Water Conservation |  |  |  |  |  |  |  |  |  |  |
| Integrated Nutrient Management | 2 | 41 | 3 | 44 | 3 | - | 3 | 11 | - | 11 |
| Production of organic inputs |  |  |  |  |  |  |  |  |  |  |
| Others (Organic farming) |  |  |  |  | - | - |  |  |  |  |
| **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 (Intercropping ) | 1 | 10 | - | 10 | - | - | - | 10 | - | 10 |
| Kitchen gardening | 2 | 58 | 100 | 158 | 5 | 8 | 13 | 63 | 108 | 172 |
| **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 (Flower cultivation) | 2 | 53 | 58 | 111 | - | 4 | 4 | 53 | 62 | 115 |
| **d) Plantation crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology | 1 | 24 | 2 | 26 | 5 | - | 5 | 29 | 2 | 31 |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **e) Tuber crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology | 1 | 5 | 5 | 10 | 2 | 8 | 10 | 7 | 13 | 20 |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **f) Spices** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology | 1 | 70 | 1 | 71 | 3 | - | 3 | 73 | 1 | 74 |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (Integrated crop management) | 2 | 47 | 54 | 101 | - | - | - | 47 | 54 | 101 |
| **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 | 5 | 75 | 129 | 136 | 14 | 22 | 36 | 89 | 151 | 240 |
| Others (Organic farming) | 2 | 9 | 57 | 66 | - | 20 | 20 | 9 | 77 | 86 |
| **Livestock Production and Management** |  |  |  |  |  |  |  |  |  |  |
| Dairy Management |  |  |  |  |  |  |  |  |  |  |
| Poultry Management |  |  |  |  |  |  |  |  |  |  |
| Piggery Management |  |  |  |  |  |  |  |  |  |  |
| Rabbit Management |  |  |  |  |  |  |  |  |  |  |
| Animal Nutrition Management |  |  |  |  |  |  |  |  |  |  |
| Animal Disease Management |  |  |  |  |  |  |  |  |  |  |
| Feed and Fodder technology |  |  |  |  |  |  |  |  |  |  |
| Production of quality animal products |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Home Science/Women empowerment** |  |  |  |  |  |  |  |  |  |  |
| Household food security by kitchen gardening and nutrition gardening | 1 | - | 57 | 57 | - | 8 | 8 | - | 65 | 65 |
| Design and development of low/minimum cost diet |  |  |  |  |  |  |  |  |  |  |
| Designing and development for high nutrient efficiency diet |  |  |  |  |  |  |  |  |  |  |
| Minimization of nutrient loss in processing |  |  |  |  |  |  |  |  |  |  |
| Processing and cooking |  |  |  |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  |  |  |  |  |  |  |  |  |
| Storage loss minimization techniques |  |  |  |  |  |  |  |  |  |  |
| Value addition |  |  |  |  |  |  |  |  |  |  |
| Women empowerment |  |  |  |  |  |  |  |  |  |  |
| Location specific drudgery production |  |  |  |  |  |  |  |  |  |  |
| Rural Crafts |  |  |  |  |  |  |  |  |  |  |
| Women and child care |  |  |  |  |  |  |  |  |  |  |
| Others (Mushroom cultivation) | 3 | 23 | 122 | 145 | - | 6 | 6 | 23 | 128 | 151 |
| **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 (Mechanization in paddy) | 1 | 10 | 8 | 18 | - | - | - | 10 | 8 | 18 |
| **Plant Protection** |  |  |  |  |  |  |  |  |  |  |
| Integrated Pest Management | 6 | 94 | 7 | 101 | 19 | - | 19 | 94 | 26 | 120 |
| Integrated Disease Management | 2 | 36 | 2 | 38 | 1 | - | 1 | 37 | 2 | 39 |
| Bio-control of pests and diseases |  |  |  |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  |  |  |  |  |  |
| Others (Integrated pest & disease management) | 7 | 184 | 39 | 223 | 20 | 9 | 29 | 204 | 48 | 252 |
| **Fisheries** |  |  |  |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing |  |  |  |  |  |  |  |  |  |  |
| Composite fish culture |  |  |  |  |  |  |  |  |  |  |
| Hatchery management and culture of freshwater prawn |  |  |  |  |  |  |  |  |  |  |
| Breeding and culture of ornamental fishes |  |  |  |  |  |  |  |  |  |  |
| Portable plastic carp hatchery |  |  |  |  |  |  |  |  |  |  |
| Pen culture of fish and prawn |  |  |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  |  |  |  |  |  |
| Edible oyster farming |  |  |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  |  |  |  |  |  |
| Fish processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Production of Inputs at site** |  |  |  |  |  |  |  |  |  |  |
| Seed Production |  |  |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  |  |  |  |  |  |
| Bio-agents production |  |  |  |  |  |  |  |  |  |  |
| Bio-pesticides production |  |  |  |  |  |  |  |  |  |  |
| Bio-fertilizer production |  |  |  |  |  |  |  |  |  |  |
| Vermi-compost production |  |  |  |  |  |  |  |  |  |  |
| Organic manures production |  |  |  |  |  |  |  |  |  |  |
| Production of fry and fingerlings |  |  |  |  |  |  |  |  |  |  |
| Production of Bee-colonies and wax sheets |  |  |  |  |  |  |  |  |  |  |
| Small tools and implements |  |  |  |  |  |  |  |  |  |  |
| Production of livestock feed and fodder |  |  |  |  |  |  |  |  |  |  |
| Production of Fish feed |  |  |  |  |  |  |  |  |  |  |
| Mushroom production |  |  |  |  |  |  |  |  |  |  |
| Apiculture |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **CapacityBuilding and Group Dynamics** |  |  |  |  |  |  |  |  |  |  |
| Leadership development |  |  |  |  |  |  |  |  |  |  |
| Group dynamics |  |  |  |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  |  |  |  |  |  |  |  |  |
| Mobilization of social capital |  |  |  |  |  |  |  |  |  |  |
| Entrepreneurial development of farmers/youths |  |  |  |  |  |  |  |  |  |  |
| Others (Cleaning & sanitization of public places) | 3 | 54 | 132 | 186 | 14 | 13 | 27 | 68 | 145 | 233 |
| **Agro-forestry** |  |  |  |  |  |  |  |  |  |  |
| Production technologies |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming Systems | 1 | 56 | 4 | 60 | - | - | - | 56 | 4 | 60 |
| Others (Pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **TOTAL** | **52** | **955** | **786** | **1741** | **86** | **98** | **184** | **1041** | **884** | **1925** |

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

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

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

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

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | | | |
| **General** | | | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | | **Total** | | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| Productivity enhancement in field crops |  |  | |  | |  |  |  |  |  |  |  |
| Integrated Pest Management |  |  | |  | |  |  |  |  |  |  |  |
| Integrated Nutrient management |  |  | |  | |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  | |  | |  |  |  |  |  |  |  |
| Protected cultivation technology |  |  | |  | |  |  |  |  |  |  |  |
| Production and use of organic inputs |  |  | |  | |  |  |  |  |  |  |  |
| Care and maintenance of farm machinery and implements |  |  | |  | |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  | |  | |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  | |  | |  |  |  |  |  |  |  |
| Women and Child care |  |  | |  | |  |  |  |  |  |  |  |
| Low cost and nutrient efficient diet designing |  |  | |  | |  |  |  |  |  |  |  |
| Group Dynamics and farmers organization |  |  | |  | |  |  |  |  |  |  |  |
| Information networking among farmers |  |  | |  | |  |  |  |  |  |  |  |
| Capacity building for ICT application |  |  | |  | |  |  |  |  |  |  |  |
| Management in farm animals |  |  | |  | |  |  |  |  |  |  |  |
| Livestock feed and fodder production |  |  | |  | |  |  |  |  |  |  |  |
| Household food security |  |  | |  | |  |  |  |  |  |  |  |
| Any other (Integrated farming system) | 1 | 39 | | 1 | | 40 | 3 | 0 | 3 | 42 | 1 | 43 |
| DAESI | 52 | 34 | | 6 | | 40 | - | - | - | 34 | 6 | 40 |
| **Total** | **53** | **73** | | **7** | | **80** | **3** | **0** | **3** | **76** | **7** | **83** |

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

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

7.G. Sponsored training programmes conducted

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No.** | **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | |
| **General** | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| **1** | **Crop production and management** |  |  |  |  |  |  |  |  |  |  |
| 1.a. | Increasing production and productivity of crops | **01** | **47** | **-** | **47** | **-** | **-** | **-** | **47** | **-** | **47** |
| 1.b. | Commercial production of vegetables |  |  |  |  |  |  |  |  |  |  |
| **2** | **Production and value addition** |  |  |  |  |  |  |  |  |  |  |
| 2.a. | Fruit Plants |  |  |  |  |  |  |  |  |  |  |
| 2.b. | Ornamental plants |  |  |  |  |  |  |  |  |  |  |
| 2.c. | Spices crops |  |  |  |  |  |  |  |  |  |  |
| **3.** | **Soil health and fertility management** |  |  |  |  |  |  |  |  |  |  |
| **4** | **Production of Inputs at site** |  |  |  |  |  |  |  |  |  |  |
| **5** | **Methods of protective cultivation** |  |  |  |  |  |  |  |  |  |  |
| **6** | **Others (pl.specify)** |  |  |  |  |  |  |  |  |  |  |
| **7** | **Post harvest technology and value addition** |  |  |  |  |  |  |  |  |  |  |
| 7.a. | Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| 7.b. | Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **8** | **Farm machinery** |  |  |  |  |  |  |  |  |  |  |
| 8.a. | Farm machinery, tools and implements |  |  |  |  |  |  |  |  |  |  |
| 8.b. | Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **9.** | **Livestock and fisheries** |  |  |  |  |  |  |  |  |  |  |
| **10** | **Livestock production and management** |  |  |  |  |  |  |  |  |  |  |
| 10.a. | Animal Nutrition Management |  |  |  |  |  |  |  |  |  |  |
| 10.b. | Animal Disease Management |  |  |  |  |  |  |  |  |  |  |
| 10.c | Fisheries Nutrition |  |  |  |  |  |  |  |  |  |  |
| 10.d | Fisheries Management |  |  |  |  |  |  |  |  |  |  |
| 10.e. | Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **11.** | **Home Science** |  |  |  |  |  |  |  |  |  |  |
| 11.a. | Household nutritional security |  |  |  |  |  |  |  |  |  |  |
| 11.b. | Economic empowerment of women |  |  |  |  |  |  |  |  |  |  |
| 11.c. | Drudgery reduction of women |  |  |  |  |  |  |  |  |  |  |
| 11.d. | Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **12** | **Agricultural Extension** |  |  |  |  |  |  |  |  |  |  |
| 12.a. | CapacityBuilding and Group Dynamics |  |  |  |  |  |  |  |  |  |  |
| 12.b. | Others (Women coffee growers) | 7 | 3 | 125 | 128 | - | 15 | 15 | 3 | 140 | 143 |
| 13. | Bee keeping | 1 | 20 | 6 | 26 | 4 | - | 4 | 24 | 6 | 30 |
|  | **Total** | **8** | **23** | **131** | **154** | **4** | **15** | **19** | **27** | **146** | **173** |

**Details of sponsoring agencies involved**

**1. Coffee Board**

**2.Agriculure Skill Council of India**

**3. Director of Extension, UAHS(S)**

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

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

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.**  **No.** | **Name of Job Role** | **Date**  **of Start** | **Date**  **of**  **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** | Gardener-skill development training | 19-12-2018  to  12-01-2019 |  | 431000 | 13 | 4 | 17 | 6 | 2 | 8 | 19 | 6 | 25 | 25 |
| 2. | Bee keeping -skill development training | 11-02-19  to  07-03-2019 |  | 141200 | 16 | - | 16 | 4 | - | 4 | 20 | - | 20 | 20 |

**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 | 07 | 151 | 5 | 156 | - | - | - | 6 | - | 6 |
| Kisan Mela | 1 | 50 | - | - | - | - | - | - | - | - |
| Kisan Ghosthi | - | - | - | - | - | - | - | - | - | - |
| Exhibition | 05 | - | - | - | - | - | - | - | - | - |
| Film Show | - | - | - | - | - | - | - | - | - | - |
| Method Demonstrations | 105 | - | - | - | - | - | - | - | - | - |
| Farmers Seminar | 3 | 92 | 90 | 182 | 59 | 7 | 66 | 5 | 2 | 7 |
| Workshop | - | - | - | - | - | - | - | - | - | - |
| Group meetings | 22 | - | - | - | - | - | - | - | - | - |
| Lectures delivered as resource persons | 16 | 1870 | 625 | 2025 | 150 | 35 | 185 | 14 | 2 | 16 |
| Newspaper coverage | 23 | - | - | - | - | - | - | - | - | - |
| Radio talks | 11 | - | - | - | - | - | - | - | - | - |
| TV talks |  | - | - | - | - | - | - | - | - | - |
| Popular articles | 10 | - | - | - | - | - | - | - | - | - |
| Extension Literature | 26 | - | - | - | - | - | - | - | - | - |
| Advisory Services | 791 | - | - | - | - | - | - | - | - | - |
| Scientific visit to farmers field | 102 | - | - | - | - | - | - | - | - | - |
| Farmers visit to KVK | 791 | - | - | - | - | - | - | - | - | - |
| Diagnostic visits | 10 | - | - | - | - | - | - | - | - | - |
| Exposure visits | 09 | 251 | 42 | 293 | 24 | 14 | 38 |  |  |  |
| Ex-trainees Sammelan | - | - | - | - | - | - | - | - | - | - |
| Soil health Camp | - | - | - | - | - | - | - | - | - | - |
| Animal Health Camp | - | - | - | - | - | - | - | - | - | - |
| Agri mobile clinic | - | - | - | - | - | - | - | - | - | - |
| Soil test campaigns | - | - | - | - | - | - | - | - | - | - |
| Farm Science Club Conveners meet | - | - | - | - | - | - | - | - | - | - |
| Self Help Group Conveners meetings | - | - | - | - | - | - | - | - | - | - |
| Mahila Mandals Conveners meetings | - | - | - | - | - | - | - | - | - | - |
| Celebration of important days (specify) |  | - | - | - | - | - | - | - | - | - |
| World environment day | 1 | 14 | 134 | 148 | - | - | - | 14 | 5 | 19 |
| Field day on integrated crop management and mechanization in paddy | 1 | 51 | 13 | 64 | - | - | - | 21 | 7 | 28 |
| Women in agriculture day | 1 | 3 | 36 | 39 | - | 31 | 31 | 2 | 4 | 6 |
| World soil day | 1 | 13 | 19 | 32 | 2 | 16 | 18 | 3 | 1 | 4 |
| Animal health camp | 1 | 43 | - | 43 |  |  | - | 2 | - | 2 |
| Nutrient management and bio pest control in Bengal gram | 1 | 27 | 7 | 34 | - | 3 | 3 | 2 | 1 | 3 |
| Farmers day | 1 | 40 | - | 40 | - | - | - | 2 | - | 2 |
| Farmers day | 01 | 49 | 4 | 53 | - | - | - | 2 | - | 2 |
| PM-Kissan samman nidhi | 01 | 58 | 5 | 63 | 2 | - | 2 | 3 | - | 3 |
| Any Other (Specify) | - | - | - | - | - | - | - | - | - | - |
| **Total** | **1941** | **2712** | **980** | **3692** | **237** | **106** | **343** | **76** | **22** | **98** |

**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) |  |  |  |  |  |  |
| Oilseeds |  |  |  |  |  |  |
| Pulses |  |  |  |  |  |  |
| Commercial crops |  |  |  |  |  |  |
| Vegetables |  |  |  |  |  |  |
| Flower crops |  |  |  |  |  |  |
| Spices |  |  |  |  |  |  |
| Fodder crop seeds |  |  |  |  |  |  |
| Fiber crops |  |  |  |  |  |  |
| Forest Species |  |  |  |  |  |  |
| Others (specify) |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  |

# 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 |  |  |  |  |  |  |
| Fruits |  |  |  |  |  |  |
| Ornamental plants |  |  |  |  |  |  |
| Medicinal and Aromatic |  |  |  |  |  |  |
| Plantation | Coffee | Arabica |  | 1724 | 10344 | 7 |
|  | Arecanut seedlings (No) | Thirthayally Local |  | 2493 | 58560 | 12 |
| Spices | Black pepper | Panniyur |  | 4324 | 43240 | 25 |
|  | Cardamom | Knellyani gold |  | 4293 | 51504 | 21 |
|  | Cinnamon |  |  | 64 | 640 | 19 |
|  |  |  |  |  |  |  |
| Tuber |  |  |  |  |  |  |
| Fodder crop saplings |  | Fodder slips |  | 4900 | 2200 | 7 |
| Forest Species |  |  |  |  |  |  |
| Others(Clove-17, curry leaves – 13, Grafted pepper- 13,  Chakramuni-11, Dhoopa-2, Medicinal hippali -1, Drumstick-23,  Nutmeg-5, Deccan hemp-2, neem-1, doddapatre-1, lemon-10, Mango-2) |  |  |  | 221 | 7388 | 23 |
| **Total** |  |  |  | **18019** | **179064** | **130** |

**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 | Vermi compost | 232 kg | 1856 | 05 |
| Bio-pesticide |  |  |  |  |
| Bio-fungicide |  |  |  |  |
| Bio Agents | Trichoderma (Kg) | 81 | 8100 | 02 |
| Others (Mushroom) | Mushroom spawn (Kg) | 162.75 | 13020 | 47 |
|  | RTF Mushroom bags (No.) | 72 | 3320 | **10** |
| **Total** |  | 475.75kg + 72 nos. | 26296 | **64** |

# 9.D. Production of livestock

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Particulars of Livestock | **Name of the breed** | **Number** | **Value (Rs.)** | **Number of farmers to whom provided** |
| **Dairy animals** |  |  |  |  |
| Cows |  |  |  |  |
| Buffaloes |  |  |  |  |
| Calves |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |
|  | Sheep (Kg) | 42 | 29450 | 2 |
|  | Bunnies (no.) | 22 | 7750 | 10 |
| **Poultry** |  |  |  |  |
| Broilers | Swarnadhara & Giriraja, Local, Kadaknath (No.) | 6817 | 629906 | 278 |
|  | Poultry chick (kgs) | 52.12 | 15041 | 6 |
| Layers |  |  |  |  |
| Duals (broiler and layer) |  |  |  |  |
| Japanese Quail |  |  |  |  |
| Turkey |  |  |  |  |
| Emu |  |  |  |  |
| Ducks |  |  |  |  |
| Others (Pl. specify) | Eggs (No.) | 300 | 283 | 25 |
| **Piggery** | Pig (Kg) | 71 | 7455 | **1** |
| Piglet |  |  |  |  |
| Others (Pl.specify) |  |  |  |  |
| **Fisheries** |  |  |  |  |
| Fingerlings | Fish (Kg) | 63.7 | 7410 | 21 |
| Others (Pl. specify) |  |  |  |  |
| **Total** |  | **228.82 kg &7139 no.** | **697295** | **343** |

**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: 2009 Periodicity: Copies printed in each issue: 400

(B) Literature developed/published

|  |  |
| --- | --- |
| **Item** | **Number** |
| Research papers- International | - |
| Research papers- National | 07 |
| Technical reports | 05 |
| Technical bulletins | 02 |
| Popular articles - English | - |
| Popular articles – Local language | 15 |
| Extension literature | 07 |
| Others (Pl. specify) |  |
|  |  |
|  |  |
| **TOTAL** | **36** |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.**  **No.** | **Type of media** | **Title** | **Details** |
| **1** | **CD / DVD** | **Integrated farming system**  **Integrated rabbit farming**  **Apiculture as a profitable enterprise** | **CD** |
| **2** | **Mobile Apps** |  |  |
| **3** | **Social media groups with KVK as Admin** | **Mushroom production marketing**  **Poultry production and marketing** | **Whats app group** |
| **4** | **Facebook account name** | [**kvkmudigere@gmail.com**](mailto:kvkmudigere@gmail.com) | **Face book account** |
| **5** | **Instagram account name** | **-** | **-** |
|  |  |  |  |
|  |  |  |  |

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

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

The Broad outline for the case study may be

**Integrated Farming System-A boon for Agriculture : Success story of Mr. Lokeshappa**

**Background and Intervention** : Now a day’s people will be migrated towards the urban areas in search of job and security purpose but things are different in lokesappa’s life. Mr Lokeshappa, a farmer Hiriyanagala village of kadur taluk and chikkamagaluru district, instead of searching job he dedicated himself to his own farm by adopting Integrated Farming System and make it profitable.

**One of the major profitable enterprise in lokesappa’s farm is dairy farming. He started rearing of cow since from 18 years, initially he reared single local cow breed i.e, malenadu gidda and per day he taken one liter milk. After the contact with veterinary department and kvk scientist, he crossed the local breed with H.F scemen and he increased the dairy unit today he maintained the 24 H.F. breeds and per day he sold 120-150 litre milk to KMF by this way he improved the dairy as a profit job. In addition to that he modified the dairy farm ie, Dairy shed with improved drinking water pits for animals with ground leveler automatically, low cost feed ratio, milking machine, silage, hydrophonics and green fodder management.**

# Knowing IFS model is the best model for sustainable development and better livelihood he go on adding the different components in his farming. As a agriculture and Horticulture crop components he practicing Multistorieng system of plantation where he planted pepper var. paniyur-1, lemon, Arecanut, cocoa ginger, nutmeg, papaya and minor fruit crop. Apart from this he adopted agro-foresty system in that he planted 1000 silver tree, 800 cocoa tree and 500 teak tree and other tree crops .

# By the intervention of kvk, Mudigere he started poultry farming with low cost technology. Where he reared giriraja chicks for meat and swarnadhara for egg purpose and he created the local market their by he sold both eggs and meat to consumer at higher rate. In addition to that he rearing kenguri sheap and he saying rearing of animal husbandry is a riskless job and more profitable compare to the other farm activity.He also practicing organic farming by using by products obtain from farm produce mainly Arecanut husk and green manure crops where, Arecanut waste decomposing enriched with biofertilizers and bioagents – trichoderma, pseudomonas and it used as a compost material. During summer month for conservation of water, mulching the field with arecanut waste and made nala bunds and farm pond .

1. **Activity wise income, cost-benefit ratio, gross and net income year-wise for previous five year.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Crop** | **year** | **Gross income** | **Gross cost** | **Net income** | **BC ratio** |
| **Arecanut** | 2013-14 | 340000 | 75000 | 265000 | 4.53 |
| 2014-15 | 370000 | 75000 | 295000 | 4.93 |
| 2015-16 | 365000 | 90000 | 275000 | 4.06 |
| 2016-17 | 374000 | 90000 | 284000 | 4.16 |
| 2017-18 | 340000 | 110000 | 230000 | 3.09 |
| **pepper** | 2016-17 | 150000 | 65000 | 85000 | 2.31 |
| 2017-18 | 330000 | 75000 | 255000 | 4.40 |
| **lemon** | 2013-14 | 400000 | 100000 | 300000 | 4 |
| 2014-15 | 400000 | 120000 | 280000 | 3.33 |
| 2014-15 | 200000 | 60000 | 140000 | 3.33 |
| 2015-16 | 275000 | 85000 | 190000 | 3.24 |
| 2016-17 | 300000 | 100000 | 200000 | 3.00 |
| 2017-18 | 300000 | 100000 | 200000 | 3.00 |
| **Live stock - Dairy** | 2013-14 | 274000 | 190000 | 84000 | 1.44 |
| 2014-15 | 338000 | 230000 | 108000 | 1.47 |
| 2015-16 | 397185 | 260000 | 137185 | 1.53 |
| 2016-17 | 663600 | 440000 | 223600 | 1.51 |
| 2017-18 | 785600 | 540000 | 245600 | 1.45 |

****

****

**Title : Integrated farming system a boon for better livelihood and became a Progressive farm women– A success story of Smt. FATHIMA.**

**Background and Intervention:** Smt. Firdose fathima, Aladur taluk and Chikkamagaluru district practicing integrated farming system and had a faith in that which has lead to increase in higher income and betterment in livelihood status. She is basically from Bengaluru, she grown up and studied in Bengaluru, she completed B.Com degree in Bangalore and also she got job in bank. She left job for her personal problem, from childhood haven’t any idea about the agriculture. After her marriage she shifted to husband home in Aladuru taluk and she pond of the beauty of nature surrounding her residence, after that she thought to start agriculture activities and she started to visiting surrounding agriculture fields and discussed about problems and income in agriculture, horticulture crops etc. and then she shows very keen interest in agriculture to do something different in agriculture activities what others are not practicing. Then she had a thought about integrated farming system approach and she became a successful integrated farmer.

She don’t want to spend her life in home only so she started to concentrate the agriculture activities and practiced only integrated farming approach in their field. During the 2011 year she visited the KVK, Mudigere with her husband and interacted with various scientists and had a assumption regarding agriculture is not profitable to the farmer communities. Later scientist convinced them and suggested to follow the integrated farming system. Scientist of KVK, Mudigere demonstrated the backyard poultry of different varieties like Nati koli, Swarnadhara, Giriraja and Kadakanth chicks, these are all suitable for the Malnad region and gave a scientific advisory to Mrs. Fathima. In addition to that she owns a agriculture land of 9 acres in that coffee is major crop in that she started to intercropping of black pepper to get higher income. She didn’t stick on to the single enterprise, she started practicing aquarium/colour fishes and nursery of horticulture crops, honeybee hives and animal husbandry activities among these enterprises she is earning daily money to the pocket. Different types of Aquarium fishery units started and established fingerlings units and also established their own marketing for fingerlings and their own produce. Ornamental crops also growing, generating income, in that nursery also maintained and getting some additional benefits. Poultry birds are rearing for the both meat and egg purpose and marketing regularly.

Knowing the IFS model is the best model for sustainable development and better livelihood she go on adding the different components in his farming. As a agriculture and horticulture crop components she gave more interest to vermi compost unit, bio digester, poultry manure and compost units practicing in their own field. And also she interested in growing of different types of animals like rabbit rearing, in animal husbandry cow, sheep and horse rearing among these she had a good network of marketing their own and fixing the better price and this had a money for the pocket.

She has regular contacts with KVK, Mudigere, Veterinary, Agriculture and Horticulture officials for valuable suggestions and right directions for adaptation of new technology practice. She honours too many awards be many institutes and organizations.

# Awards: Best district level farmer award from UAHS Shivamogga.

# Income generation and economic of Mrs. Fathima Firdose farm from various farming system

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Crop/variety | Production | Amount (Rs.) |
| 1 | Coffee RobustaCherry | 225 bags x 3000 | 675000 |
| 2 | Pepper | 3 tons x 300 | 900000 |
| 3 | PoultryBirdsChicksEggs | 100 kg x 250 per kg300 nos x 1502000 nos x 8 | 250004500016000 |
| 4 | Aquarium Fingerlings | 3000 nos x 15 | 45000 |
| 5 | Honey | 10 kgs x 300 | 3000 |
| 6 | Nursery | Coffee – 5000 x 6 per bagPepper – 5000 x 12 per bagFlower crops – 1000 x 25 per bag | 300006000025000 |
| 7 | Compost | 10 ton x 5000 per ton | 50000 |

****

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

1. Fixation of boards to farm, to convert farm as a instructional farm which made transfer of technology very easy

2. Blast infestation in paddy: Chikkamagalur district covers paddy area in high rainfall zone which is hot spot for blast disease infesting upto 40%. KVK Mudigere intervened in demonstration of innovative technology blast resistance paddy variety KPR-1 in collaboration with state department of agriculture and NGO’s organized training programmes, demonstrations and FFS in different villages of the zone and recommended for seed treatment with carbendazim and spraying of crop with tricyclazole at 0.6 g/liter of water for blast management.

**3. Foliar application of micronutrients**: Spraying of banana special & pepper special was demonstrated in hill zone of Chikmagalur district which resulted in large scale adoption by farmers which showed an increase in yield by 65 per cent (recorded an yield of 360 t/ha and 3.4 q/ha in banana and pepper respectively).

**4. Use of arka microbial consortium as a bioagents in pepper crop:** Wilt disease is a major pepper disease in mudigere area resulting in severe death of vines. Panniyur 1 is commonly grown in district which is susceptible to wilt and it needs intense research. Use of arka microbial consortium has a bioagents along with FYM resulted in suppression of quick wilt in black pepper, as a result which made farmers keener in application of bio control agent which leads to more number of plant stand. (Yield 344kg/ha and % disease incidence in 12% before application and 5% after application of bioagents)

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)

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **Crop / Enterprise** | **ITK Practiced** | **Purpose of ITK** |
| 1 | Pomegranate | Use of ripened banana | As a attractant for management of fruit sucking moth |
| 2 | Paddy | Application of ash | For management of cut worm in paddy |
| 3 | Paddy | Calotropies(yekka) branches are placed at the water inlet | Acts as a insect repellent |
| 4 | Paddy/Ragi | Seedlings were transplanted equi distance at spacing of 22.5 x 22.5cm | It facilitates intercultivation in both directions, conserves moisture, controls weeds and enhance tillering |
| 5 | Ragi | Sowing seeds mixed with FYM | It ensures better moisture and nutrient supply and reduces seed rate and finally lesser cost of production |
| 6 | Bengal gram | Coriander sowing before planting of main crop | Act as a trap crop to avoid pest & disease |
| 7 | Sunflower | Seeds soaked in sour butter milk before sowing | It acts as a growth promoter |
| 8 | Coconut | Application of common salt | Cost effective substitute for potash and also acts as on insect repellent |
| 9 | Coconut | Root feeding with neem oil | Reduce stem bleeding |
| 10 | Coconut | Planting kalli plants at the base of coconut palm | Reduce stem bleeding |
| 11 | Arecanut | Application of Tank silt @ 50ton/ha | Supply nutrient to crop |
| 12 | Vegetable garden | Maize is grown around vegetable garden | Physical barrier to cattle and acts as a trap crop for insects |
| 13 | Redgram | Redgram is mixed with castor oil and stored in earthen vessel | Physical barrier to pests |
| 14 | Perennial crops | Ragi husk, coconut front and husk are used as mulch | Check evaporation and weed growth |
| 15 | Cattle | Mosquito repellent coil | An admixture of cow dung, paddy husk, turmeric powder, neem leaves, drum stick leaves and dried local tree leaves were moulded into a shape of mosquito coil which when lit upon acts as a mosquito repellent in house/cow shed. |
|  |  | Pressure washing in cows using vehicle washing jet | To eliminate ectoparasites on cattle and to avoid skin fungus, dirt etc. |

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

Period of observing Technology Week: From 03-12-2018 to 07-12-2018

Total number of farmers visited : 215

Total number of agencies involved : 04

Number of demonstrations visited by the farmers within KVK campus : 05

**Other Details**

| **Types of Activities** | **No. of**  **Activities** | **Number of**  **Farmers** | **Related crop/livestock technology** |
| --- | --- | --- | --- |
| Gosthies | - | - | - |
| Lectures organized | 04 | 120 | Mushroom, Soil & water testing, vermi composting, fisheries, value addition, apiculture |
| Exhibition | 06 | 180 | Pepper, soil, field crops |
| Film show | 01 | 120 | Soil analysis, mushroom cultivation |
| Fair | 01 | 43 | Animal health camp |
| Farm Visit | - | - |  |
| Diagnostic Practicals | - | - |  |
| Supply of Literature (No.) | 215 | 215 |  |
| 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 | - | 215 |  |

**PART XI – SOIL AND WATER TEST**

**11.1 Soil and Water Testing Laboratory**

A. Status of establishment of Lab : Working in good condition

1. Year of establishment : 2005-06

2. List of equipments purchased with amount :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl. No | Name of the Equipment | Qty. | Cost | Status |
| 1 | PH meter & EC bridge | 1 | 16,269-00 | Good |
| 2 | Physical balance  Hot air oven  Magnetic stirrer  Top loading balance  Rotary shaker  Double glass distillation unit | 1 | 1,66,107-00 | Good |
| 3 | Flame photometer | 1 | 38,720-00 | Good |
| 4 | Spectrophotometer | 1 | 46,200-00 | Good |
| 5 | Refrigerator  Stabilizer  Deluxe stand  Mixer | 1 | 18,580-00 | Good |
| 6 | Electronic automatic KEL PLUS Microprocessor based six place macro black digestion system  Electronic KEL PLUS microprocessor automatic distillation system  Electronic acid neutralizer scrubber | 1 | 1,67,709-00 | Good |
| 7 | Soil sampling post hole auger 50mm dia | 1 | 915-00 | Good |
| 8 | Soil auger screw type 50mm dia | 1 | 915-00 | Good |
| 9 | Tube auger 50mm | 1 | 871-00 | Good |
| 10 | 200mm dia PVC FRP ducting from fume cupboard to blower with 1 no 2 HP PVC FRP blower with NGEF motor and L&T starter | 1 | 20,250-00 | Good |
| 11 | 6mm thickness FRP fume cupboard with FRP framed suffex glass shutters with up and down movement mechanism | 1 | 41,625-00 | Good |
| 10 | Hot plate rectangular type with size-18“x12” thermostatic control, stainless steel top. | 1 | 10,800-00 | Good |
| 11 | Steel Almera & Rack | 1 | 16,600-00 | Good |
| 12 | Steel Almera & Rack | 1 | 5,800-00 | Good |
| 13 | Atomic absorption spectrophotometer | 1 | 14,18,500-00 | Good |
| 14 | Water distillation unit | 1 | 1,62,241-00 | Good |
| 15 | EC meter | 1 | 68,146-00 | Good |
| 16 | pH meter | 1 | 31,624-00 | Good |
| 17 | Nitrogen distillation | 1 | 2,98,994-00 | Good |
| 18 | Spectrophotometer | 1 | 4,70,230-00 | Good |
| Total |  |  | 28,01,098-00 |  |

B. Details of samples analyzed since establishment of SWTL:

|  |  |  |  |
| --- | --- | --- | --- |
| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages |
| Soil Samples | 3591 | 826 | 826 |
| Water Samples | 234 | 221 | 221 |
| Plant samples | 14 | 1 | 1 |
| Manure samples | 48 | 27 | 22 |
| Others |  |  |  |
| Pulping compost | 9 | 1 | 1 |
| Lime | 600 | 521 | 345 |
| Vermi compost | 2 | 1 | 1 |
| Total | 4498 | 1598 | 1417 |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages |
| Soil Samples | 289 | 105 | 105 |
| Water Samples | 35 | 34 | 34 |
| Plant samples |  |  |  |
| Manure samples |  |  |  |
| Others (Lime) | 40 | 24 | 24 |
| Total | 364 | 163 | 163 |

11.2 Mobile Soil Testing Kit

A. Date of purchase and current status

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

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

|  |  |  |
| --- | --- | --- |
|  | 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:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Particulars | Date (s) | Villages (No.) | Farmers (No.) | Samples analyzed (No.) | Soil health cards issued (No.) |
| SWTL | 10-7-18 | 3 | 3 | 28 | 28 |
|  | 6-08-18 | 1 | 1 | 1 | 1 |
|  | 28-8-18 | 1 | 1 | 1 | 1 |
|  | 20-9-18 | 1 | 1 | 1 | 1 |
|  | 14-11-18 | 1 | 1 | 3 | 3 |
|  | 23-11-18 | 1 | 1 | 1 | 1 |
|  | 24-11-18 | 1 | 1 | 4 | 4 |
|  | 27-11-18 | 1 | 1 | 1 | 1 |
|  | 01-12-18 | 1 | 1 | 1 | 1 |
|  | 03-12-18 | 9 | 9 | 26 | 26 |
|  | 10-12-18 | 1 | 1 | 1 | 1 |
|  | 12-12-18 | 1 | 1 | 1 | 1 |
|  | 13-12-18 | 2 | 2 | 2 | 2 |
|  | 18-12-18 | 1 | 1 | 6 | 6 |
|  | 19-12-18 | 2 | 2 | 54 | 54 |
|  | 24-12-18 | 9 | 9 | 22 | 22 |
|  | 26-12-18 | 1 | 1 | 4 | 4 |
|  | 31-12-18 | 1 | 1 | 1 | 1 |
|  | 3-1-19 | 1 | 1 | 1 | 1 |
|  | 8-01-19 | 3 | 3 | 3 | 3 |
|  | 11-01-19 | 2 | 2 | 3 | 3 |
|  | 14-01-19 | 2 | 2 | 5 | 5 |
|  | 16-01-19 | 2 | 2 | 3 | 3 |
|  | 17-01-19 | 3 | 3 | 4 | 4 |
|  | 18-01-19 | 1 | 1 | 2 | 2 |
|  | 19-01-19 | 3 | 3 | 5 | 5 |
|  | 23-01-19 | 3 | 3 | 4 | 4 |
|  | 28-01-19 | 2 | 2 | 18 | 18 |
|  | 29-01-19 | 2 | 2 | 5 | 5 |
|  | 02-02-19 | 2 | 2 | 3 | 3 |
|  | 05-02-19 | 1 | 1 | 2 | 2 |
|  | 06-02-19 | 2 | 2 | 2 | 2 |
|  | 08-02-19 | 1 | 1 | 2 | 2 |
|  | 11-02-19 | 2 | 2 | 4 | 4 |
|  | 13-02-19 | 1 | 1 | 1 | 1 |
|  | 14-02-19 | 2 | 2 | 2 | 2 |
|  | 16-02-19 | 1 | 1 | 1 | 1 |
|  | 18-02-19 | 1 | 1 | 1 | 1 |
|  | 18-02-19 | 1 | 1 | 1 | 1 |
|  | 21-02-19 | 1 | 1 | 1 | 1 |
|  | 22-02-19 | 3 | 3 | 4 | 4 |
|  | 25-02-19 | 3 | 3 | 18 | 18 |
|  | 27-02-19 | 1 | 1 | 6 | 6 |
|  | 28-02-19 | 3 | 3 | 5 | 5 |
|  | 06-03-19 | 3 | 3 | 3 | 3 |
|  | 07-03-19 | 1 | 1 | 1 | 1 |
|  | 08-03-19 | 1 | 1 | 2 | 2 |
|  | 11-03-19 | 2 | 2 | 7 | 7 |
|  | 14-03-19 | 2 | 2 | 4 | 4 |
|  | 15-03-18 | 1 | 1 | 6 | 6 |
|  | 26-03-19 | 2 | 2 | 5 | 5 |
|  | 27-03-19 | 1 | 1 | 1 | 1 |
|  | 28-03-19 | 1 | 1 | 1 | 1 |
| Mobile Soil Testing Kit | -- |  |  |  |  |

11.4 World Soil Health Day celebration

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Farmers participated (No.) | Soil health cards issued (No.) | VIPs (MP/ Minister/MLA attended (No.) | Other Public Representatives participated | Officials participated (No.) | Media coverage (No.) |
| 1 | 50 | 50 | - | 03 | 05 | - |

**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)** |
| Integrated crop management in paddy | 20 | 100 | 32960 | 41640 |
| Introduction of paddy variety KPR-1 | 25 | 80 | 28000 | 35000 |
| Popularization of micro nutrients (pepper special/banana) | 30 | 66.66 | 1,00,620 | 1,54,627 |
| Adoption of high yielding Bengal gram variety GBM-2 | 20 | 88 | 43,152 | 56,420 |
| Feed based aquaculture: Talapia | 5 | 100 | 2950 | 15650 |

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

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

|  |  |  |
| --- | --- | --- |
| **Sl.No.** | **Title of large scale demonstration** | **Area (ha)** |
| 1 | Cluster front line demonstration of rabi pulses (ICAR) under NFSM | 20 |
| 2 | Pest & diseases management of pepper | 60 |

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

**Situation/Background**

KVK’s operational area covers most of the hilly zone and transitional zone of the district growing paddy as important cereal crop covering 38385 ha with a productivity of 45q/ha in a district and production of 205885 tonnes. Paddy is main staple crop of the district and state mainly for food consumption and fodder. The cultivation of paddy in recent years is declining owing to lower productivity, lower economic returns with severe labour scarcity compared to other crops. Majority of the farmers grow paddy as source of food consumption and nutritive value of the fodder is acceptable.

Paddy (*Oryza sativa*.) is an important crop, which is predominantly grown in rainfed condition in the district. The crop is being grown in five taluks of the district particularly Mudigere, Chikmagalur, Koppa, N.R.Pura, and Sringeri are having major areas under paddy. The average productivity of the district is about 45q/ha, which is less than the potential yield of the crop. The reasons could be attributed to non-adoption of improved varieties, improved production techniques, non-application of recommended dose of fertilizers and improper disease and pest management practices. In this view, KVK has conducted training programmes, FLD, seminars, method demonstrations and field days to disseminate the improved technologies.

**The Main issues addressed are**

a. To achieve higher productivity and income from paddy cultivation.

b. To achieve higher fodder productivity from paddy.

**Technology Intervention:**

Krishi Vigyan Kendra, Mudigere Chikmagalur district has conducted a preliminary survey to identify the technological gaps in paddy production with the aid of group discussion/ meetings, reports of the line department and field visit to farmers field. It was learnt from their interaction that lower awareness on improved varieties, integrated pest and disease management and integrated nutrient management resulted in the lower productivity. The training programmes were focused on cultivation aspects, nutrient management, water management, weed management and pest and disease management in improved cultivation of paddy. Farmers grow old varieties which are not economically sound and sustainable in view of soil health and fertility.

With this background, KVK conducted Front Line Demonstration, addressing on use of Tunga (IET 13916) variety compared with local varieties for achieving higher net return, resistant to disease and maintaining soil health status. In addition to the seed inputs, biofertilizers, plant protection chemicals were also provided to the beneficiaries of Front Line Demonstration.

Totally, KVK has conducted 13 training programmes, Front Line Demonstration on 40 ha, 01 Farmers Field School, 02 seminars, 10 method demonstrations and 6 field days in the past 5 years for farmers/farm women, extension functionaries and self help groups,. The participants/beneficiaries/self help groups were benefited in terms of knowledge, higher productivity and net income.

Training is need based where the farmers and farmwomen are trained related to specific technology . Farmers selected for the activities are the traditional farmers whose main occupation is farming. Before providing the critical inputs, farmers were asked to show their fields and only suitable ones were selected where the dissemination of the technology is possible. Periodical visits were given by the concerned scientists at the different stages of crop and were advised about measures to be taken up and remedies if any. The main target audience is small and medium farmers whose main source of livelihood is farming.

Use of variety particularly Tunga variety were easily accepted by the beneficiaries as the potentiality is proved. The trainees were shown the preparation of seed treatment, row planting; weed management, pest and disease management through method demonstrations. Later studies were conducted to know the extent of adoption and it was found that nearly 32 % of trainees are practicing the technology. The fodder yield of the variety is appreciated and readily accepted by the farmers.

**Effect of the technology/process/results/impact:**

**Production:**

Krishi Vigyan Kendra is conducting demonstrations, discussion meetings, seminar and other extension activities in disseminating the new relevant technologies, which are suitable to Chikmagalur district starting from the establishment of KVK. As the major cereal crop of the district importance is being given for paddy cultivation through trainings and demonstrations. From 2009-10, trainings were given to the need based farmers particularly Mudigere, Chikmagalur, Koppa, N.R.Pura, and Sringeri taluks where paddy production is more.

**During 2009-10:**

Our interaction with the farmers through discussion meetings, PRA techniques revealed that paddy grows well in hilly zone of chikmagalur district. Limited potentiality of crop resulted in low productivity of crop demanding new varietals use and crop management. Frontline demonstrations (FLD) were conducted in 45 innovator’s field on “Introduction of high yielding variety Tunga”.

The front line demonstration on use of tunga variety along with other improved cultivation practices were addressed to 45 farmers of, Tarikere taluk, Chikmagalur taluk and Mudigere taluk in 18 ha area. Demonstration results revealed that the variety came up very well and recorded a yield of 55 q/ha as compared to local check.

|  |  |  |
| --- | --- | --- |
| Sl. No. | Particulars | No. |
| 1 | FLD | 03 |
| 2 | Trainings | 06 |
| 3 | Field days | 03 |

**During 2010-11:**

Survey was conducted among few villages to identify the reason for low productivity and consumption and 65% of farmers were categorized as low awareness, 22% were medium awareness and 13% were categorized as high awareness groups of knowledge on improved production technologies. Training on cultivation aspects of paddy, and method demonstration on preparation of seed treatment, water management, weed management and plant protection aspects were organized to impart knowledge on overall potentiality of paddy.

Front line demonstrations on introduction of new variety Tunga in farmer’s field were undertaken in 12 farmer’s fields in an area of 5 ha. Training was also imparted to paddy growing farmers.

**During 2011-12:**

Realizing the impact of differential performance of varieties, front line demonstration on use of varieties like tunga and tanu undertaken in 6 ha, respectively, were organized. One FLD on paddy to increase the production and productivity were taken up in the area of 0.4 ha in 10 farmer fields. A total of 05 training programmes were conducted to impart knowledge and skill of improved production of paddy.

**During 2012-13:**

Training imparted to 170 beneficiaries in 05 trainings programmes and 01 seminar. In addition, trainees of the KVK in turn motivated large number of fellow farmers resulting in farmer-to-farmer spread. Around 10 progressive farmers were trained during crop demonstration for further spread of the technology.

**During 2013-14:**

One Frontline demonstration and a FFS was conducted on paddy comprise of 40 members. Six trainings were imparted farmers from KVK and in collaboration with Department of Agriculture. There was a increase in the production and productivity of paddy over the years by the intervention of KVK to an extent of 15kg/ha.

**During 2014-15:**

Two Front line demonstration on Weed management for effective management and Integrated crop management in paddy variety Tunga implemented in 22 farmers field. There was a increase in yield of 35.33% over check.

FFS on Integrated Pest & Dissease Management in paddy was conducted at G. Hosahalli, Mudigere taluk. Technical sessions, method demonstrations, group discussion were held and a field day was organized on 02-12-2014. Average Yield per acre – 23.5 q /ac

**During 2015-16:**

Demonstration of effective pre emergent weedicide in paddy with Londax power (Bensulfuron+ Pretilachlor) @4Kg/ac 3 DAT showed good results in management of weeds upto 45days compare to farmer practice (Butachlor-12kg/ac) with a 18.26 Percent increase in yield over control.

FFS on A to Z mechanization & Integrated Crop Management in paddy was conducted at Kollibylu, Mudigere taluk by demonstrating all the machineries starting from land preparation to harvest of crop. Which showed the overcome of labour problems in malnad region and also decrease in the cost of cultivation of paddy (Rs. 20840/acre in demo plot when compare to control plot Rs.26480/acre) by taking up of right cultivation operations practices. Wherein, farmers were happy to continue the use of machines in future years.

**During 2016-17:**

**KPR-1:** KVK, Mudigere had been involved in front line demonstration of newly released paddy variety KPR 1 for hill zone at Mudigere taluk for 25 acres. The demonstration involved planting of KPR-1 which is blast resistant and early maturing variety than farmer variety tunga. This variety has been released as alternative to tunga. The technology involved mechanization i.e.c, nursery bed preparation, transplanting, use of conoweeder, harvestor & paddy straw bundler. The variety demonstrated proved with higher yield of 23.26 q/acre compared to tunga 19 q/acre with B:C ratio of 1.04. Field day was conducted in a big manner where more than 500 progressive farmers were participated.

Demonstration farmers and ther farmers who witnessed the crop of KPR-1 on field day were impressed and all farmers were ready to take up KPR-1 in coming season. Officials of department of agri who were witnessed the programme were happy about the performance of KPR-1 variety and indented the seeds for 100 ha for the year 2017-18 and department officials also had a positive opinion for bringing KPR-1 to seed chain.

**Integrated Crop management in paddy**: The demonstration involved in effective management of weeds, blast disease and case worm compared to farmers field ( control). The need base demonstration of use of weedicide londex power (4 kg) controlled 9 species of weeds upto 45 days after transplanting with 0.26 weeds/cm2 compared to control with 11 weeds/cm2 whereas, use of need based effective plant protection measure spraying of tricyclozole (0.6g/l) and flubendamide 1ml/litre recorded less incidence of blast disease (0.32%) and case worm (0.19) compared to control 1.0 & 2.6, respectively. The demonstrated plot gave a good result in easy control of weeds and less incidence of pest & disease and increase in the yield. It was impacted in such a way that farmers were requesting to make available of critical inputs like, weedicide and other pest & disease control chemicals in local shop to make use in next season. Farmers were happy about the technology and expressed their feed black to other farmers.

**2017-18:**

**KPR-1:** KVK, Mudigere had been involved in front line demonstration of newly released paddy variety KPR 1 for hill zone at Mudigere taluk for 25 acres. The demonstration involved planting of KPR-1 which is blast resistant and early maturing variety than farmer variety tunga. This variety has been released as alternative to tunga. The technology involved mechanization i.e., nursery bed preparation, transplanting, use of conoweeder, harvestor & paddy straw bundler. The variety demonstrated proved with higher yield of 62.5 q/ha compared to tunga 50 q/ha with B:C ratio of 2.37. Field day was conducted in a big manner where more than 500 progressive farmers were participated.

Demonstration farmers and other farmers who witnessed the crop of KPR-1 on field day were impressed and all farmers were ready to take up KPR-1 in coming season. Officials of department of agriculture who were witnessed the programme were happy about the performance of KPR-1 variety and indented the seeds for 100 ha for the year 2018-19 and department officials also had a positive opinion for bringing KPR-1 to seed chain.

**Integrated Crop management in paddy**: The demonstration involved in effective management of weeds, blast disease and case worm compared to farmers field ( control). The need base demonstration of use of weedicide londex power (4 kg) controlled 9 species of weeds upto 45 days after transplanting with 0.26 weeds/cm2 compared to control with 11 weeds/cm2 whereas, use of need based effective plant protection measure spraying of tricyclozole (0.6g/l) and flubendamide 1ml/litre recorded less incidence of blast disease (0.32%) and case worm (0.19) compared to control 1.0 & 2.6, respectively. The demonstrated plot gave a good result in easy control of weeds and less incidence of pest & disease and increase in the yield. It was impacted in such a way that farmers were requesting to make available of critical inputs like, weedicide and other pest & disease control chemicals in local shop to make use in next season. Farmers were happy about the technology and expressed their feed black to other farmers.

**2018-19:**

**KPR-1:** KVK, Mudigere had been involved in front line demonstration of newly released paddy variety KPR 1 for hill zone at Mudigere taluk for 25 acres. The demonstration involved planting of KPR-1 which is blast resistant and early maturing variety than farmer variety tunga. This variety has been released as alternative to tunga. The technology involved mechanization i.e., nursery bed preparation, transplanting, use of conoweeder, harvestor & paddy straw bundler. The variety demonstrated proved with higher yield of 55.2 q/ha compared to tunga 47.5 q/ha with B:C ratio of 1.36. Field day was conducted in a big manner where more than 500 progressive farmers were participated.

Demonstration farmers and other farmers who witnessed the crop of KPR-1 on field day were impressed and all farmers were ready to take up KPR-1 in coming season. Officials of department of agriculture who were witnessed the programme were happy about the performance of KPR-1 variety and indented the seeds for 100 ha for the year 2019-20 and department officials also had a positive opinion for bringing KPR-1 to seed chain.

**Seasonality of the crop:**

Paddy is cultivated during june-october in Kharif seasons. Majority of the farmers go for kharif season as rainfed crop

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Crop** | **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** |
| 2012-13 | 41.87 | 26 | 61.04 | 20500 | 46057 | 25557 | 1.80 | 19750 | 28600 | 8850 | 1.45 |
| 2013-14 | 55.25 | 38.50 | 43.51 | 14316 | 61250 | 46934 | 4.28 | 14900 | 46375 | 31475 | 3.11 |
| 2014-15 | 37 | 35.3 | 4.59 | 52250 | 67050 | 8800 | 1.28 | 50000 | 62245 | 8245 | 1.24 |
| 2015-16 | 56.32 | 47.62 | 18.26 | 41500 | 79675 | 38175 | 1.91 | 44250 | 68545 | 24295 | 1.50 |
| 2016-17 | 23.26 | 19.0 | 18.31 | 20000 | 40879 | 20879 | 1.04 | 25000 | 31350 | 6350 | 0.25 |
| 2017-18 | 62.5 | 50 | 25 | 14752 | 35000 | 15868 | 2.37 | 19132 | 28000 | 13248 | 1.46 |
| 2018-19 | 55.20 | 47.5 | 16.21 | 45000 | 106600 | 61600 | 1.36 | 54000 | 93125 | 39125 | 0.72 |

**Table: The yield and income status of paddy from 2012-13 and 2018-19**

**Front line demonstration**:

The critical inputs were given to the selected beneficiaries by KVK and the sowing was done by June month. Tiller formation usually starts from 20 days after transplanting and ear head formation commences by 70 days after transplanting. It took another 60 days for maturity. The crop came up well has intervention of KVK was timely. It was observed that the advantages of this technology have to be elicited in detail in collaboration with the experimental farmers so that the farmers themselves could explain the advantages of paddy cultivation.

It could be inferred from the above that paddy is profitable to farmers of hilly zones of Chikmagalur district only when they grow high yielding improved variety along with improved production technology. A field day was organised in the most successful farmer’s plot. Wide publicity was also given for the event through newspaper, radio and leaflets.

**Horizontal spread of the technology**

Tunga variety, which was released in 1998 by UAS Bangalore, was introduced by KVK, Chikmagalur from the year it is released, today we can find more than 60% of area is been replaced with tunga variety, as earlier varieties were not performing due to high rainfall, long duration and higher incidence of blast disease. Tunga is more suitable for high rainfall area and resistant to blast disease and yields 20-30% more yield compared other varieties. Further, the quantity and quality of fodder is also good compared to the other varieties. With this background, the technology was introduced in the district by conducting series of group meeting, training programmes, demonstrations and other extension activiteis. The area under this variety is increasing year after year. The tunga variety is been included in seed chain in malnad area, last year KVK also produced the seeds to an extent of 150q. Every year RRS Mudigere is producing breeder, certified TL seeds to larger extent. Despite the various constraints in paddy production, the farmers have known the improved crop management practices which inturn yielding high and higher economic return.

**PART XIII - LINKAGES**

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

|  |  |
| --- | --- |
| **Name of organization** | **Nature of linkage** |
| Department of agriculture, Chikkamagaluru dist. | Joint diagnostic survey, Conducting training programmes and demonstration, seminars, krishi abhiyana and field visits |
| Department of Horticulture, Chikmagalur dist. | Joint diagnostic survey, Conducting training programmes and demonstration, seminars, nursery accreditation and field visits |
| SKDRDP, Mudigere | Conducting training programmes and demonstration |
| CDPO, Mudigere | Conducting training programmes and demonstration |
| NGO | Conducting training programmes |
| Coffee Board, Spice Board | Conducting training programmes |
| ASCI, MANAGE, Hyderabad, ATMA, Chikkamagaluru, DASD, GOI | Conducting training programmes |

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.)** |
| Bee keeping short term certificate courses | January 2019 | GOK | 200000 |
| Ready to serve (RTS)-Mushroom Bags; an entrepreneurship for rural women | December 2018 | GOK | 500000 |
| Establish and demonstration of crop technology and IFS demonstration units through participatory mode | December 2018 | GOK | 500000 |
| Wilt management of pepper | December 2018 | GOK | 200000 |
| Demonstration of multi storied cropping system in rubber | October 2018 | GOK | 250000 |
| Gardener- skill development programmes | December 2018 | ASCI | 431000 |
| Skill development training courses (bee keeping) | February 2019 | ASCI | 141200 |
| Integrated crop management in onion | January 2019 | KSDH, GOK | 309800 |
| Diploma in Agriculture Extension Services for input dealers (DAESI) programme | April 2018 | MANAGE, Hyderabad, ATMA, Chikkamagaluru | 760000 |

**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** |  | 06 |  | Organized by Agriculture Department |
| **02** | **Research projects** |  |  |  |  |
|  |  |  |  |  |  |
| **03** | **Training programmes** |  | 10 |  | Organized by Agriculture Department |
|  |  |  |  |  |  |
| **04** | **Demonstrations** |  | 03 |  | Organized by Agriculture Department COORDINATED BY kvk |
|  |  |  |  |  |  |
| **05** | **Extension Programmes** |  |  |  | Organized by Agriculture Department |
|  | Kisan Mela |  | 01 |  |  |
|  | Technology Week |  |  |  |  |
|  | Exposure visit |  | 05 |  |  |
|  | Exhibition |  | 02 |  |  |
|  | Soil health camps |  | 01 |  |  |
|  | Animal Health Campaigns |  | 03 |  |  |
|  | Others (Pl. specify) |  |  |  |  |
| **06** | **Publications** |  |  |  |  |
|  | Video Films |  |  |  |  |
|  | Books |  |  |  |  |
|  | Extension Literature |  |  |  |  |
|  | Pamphlets |  |  |  |  |
|  | Others (Pl. specify) |  |  |  |  |
| **07** | **Other Activities** (Pl.specify) | Farmers field school | 05 | **-** | Agriculture Department |
|  | Watershed approach |  |  |  |  |
|  | Integrated Farm Development |  |  |  |  |
|  | Agri-preneurs development |  |  |  |  |
|  |  |  |  |  |  |

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

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

**13E. Nature of linkage with National Fisheries Development Board : 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 | - | - | - | - | - | - | - | - | - |
| May | 2 | 2 | - | - | - | - | - | - | 26126 |
| June | 3 | 2 | - | - | - | 1 | 1 | - | 24729 |
| July | 4 | 3 | - | - | - | - | 1 | - | 41276 |
| August | - | - | - | - | - | - | - | - | - |
| September | 1 | 1 | - | - | - | - | - | - | 1197 |
| October | 1 | - | 1 | - | - | - | - | - | 9869 |
| November | 1 | - | - | - | 1 | - | - | - | 13663 |
| December | 4 | 2 | - | - | - | 1 | 1 | - | 52543 |
| January 2019 | - | - | - | - | - | - | - | - | - |
| February | - | - | - | - | - | - | - | - | - |
| March | - | - | - | - | - | - | - | - | - |
| **Total** | 16 | 10 | 1 | - | 1 | 2 | 3 | - | 169403 |

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

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Demo Unit** | **Year of**  **establishment** | **Area**  **(ha)** | **Details of production** | | | **Amount (Rs.)** | | **Remarks** |
| **Variety** | **Produce** | **Qty.** | **Cost of inputs** | **Gross income** |
| 1. | Vermi compost | 2005 | - | - | Vermi compost | 232 kg | - | 1856 |  |
| 2. | Apiculture | 2014 | - | Apis cerena | Bee colony | 10 |  | 38000 |  |
| 3. |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Name**  **of the crop** | **Date of sowing** | **Date of harvest** | **Area (ha)** | **Details of production** | | | **Amount (Rs.)** | | **Remarks** |
| **Variety** | **Type of Produce** | **Qty.** | **Cost of inputs** | **Gross income** |
| Cereals |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Pulses |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Oilseeds |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Fibers |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Spices & Plantation crops | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |
| Pepper | 1996 | 2017 | 1 | Panniyur-1 | Seeds | 140.5 | 400 per kg | 56200 |  |
| Floriculture |  |  |  |  |  |  |  |  |  |
| Fruits - Sapota | 1996 | 2017 | 8 | Kalipatti Cricket ball | Fruits | 500 kg | 340 per kg | 170046 |  |
| Fruits |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Vegetables |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Others (specify) | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

**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** |
| 1 | Trichoderma | 81 | 100 per kg | 8100 |  |
| 2 | Mushroom | 162.75 | 80 per kg | 13020 |  |

**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** |
| 1. | Fish (Kg) | Tilapia |  | 63.7 kg | 116 | 7410 |  |
| 2. | Pig | Durac |  | 71 kg |  | 7455 |  |
| 3. | Sheep |  |  | 42 kg |  | 29450 |  |
| 4. | Rabbit bunnies |  |  | 22 no. | 400 each | 7750 |  |
| 5. | Poultry | Giriraja, swarnadhara | Chicks | 6817 no. | 80 each | 629906 |  |
|  |  |  |  |  |  |  |  |

**14E. Utilization of hostel facilities**

Accommodation available (No. of beds)

|  |  |  |  |
| --- | --- | --- | --- |
| **Months** | **No. of trainees stayed** | **Trainee days (days stayed)** | **Reason for short fall (if any)** |
| April 2018 | - | - | 11 members stayed |
| May | - | - | 26 members stayed |
| June | - | - | 40 members stayed |
| July | - | - | 3 members stayed |
| August | - | - | 7 members stayed |
| September | - | - | 42 members stayed |
| October | - | - | 76 members stayed |
| November | - | - | 60 members stayed + 2 members stayed for 2 days, 16 students stayed for 2 days |
| December | 25 | 25 | 30 members stayed+23 members stayed for 3 days |
| January 2019 | 30 | 10 | - |
| February | 20 | 25 | - |
| March | - |

**14F. Database management**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Database target** | **Database created** |
|  |  | Collected & stored 12,000 farmers mobile numbers of Chikkamagaluru dist. for giving information |

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

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

**PART XV - 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 | Canara Bank | Jogannanakere, Mudigere | 5536 | Senior Scientist & Head | 1162101014181 | 577015765 | CNRB0005536 |

**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** | 6192000 | 6192000 | - |
| 2 | **Traveling allowances** | 65000 | 65000 | - |
| 3 | **Contingencies** | | | |
| *A* | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 275000 | 275000 | - |
| *B* | POL, repair of vehicles, tractor and equipments | 224000 | 224000 | - |
| *C* | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained) | 125000 | 118009 | 6991 |
| *D* | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | 55000 | 55000 | - |
| *E* | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | 160000 | 141745 | 18255 |
| *F* | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | 11000 | 10028 | 972 |
| *G* | Training of extension functionaries | 10000 | 3655 | 6345 |
| *H* | Extension Activities | 50000 | 50000 |  |
| *I* | Farmers' Field School | 30000 | 27450 | 2550 |
| *J* | EDP / Innovative activities | 30000 | 30000 | - |
| *K* | Soil & Water Testing & Issue of Soil Health Cards | 25000 | 25000 | - |
| *L* | Maintenance of building | 50000 | 50000 | - |
| *M* | Library (Purchase of Journal, Periodicals, News Paper & Magazines) | 5000 | 5000 | - |
|  | **TOTAL (A)** | **7307000** | **7271887** | **35113** |
| **B. Non-Recurring Contingencies** | |  |  |  |
| 1 | **Works** | 500000 | 500000 | - |
| 2 | **Equipments including SWTL & Furniture** |  |  |  |
| 3 | **Vehicle** (Four wheeler/Two wheeler, please specify) |  |  |  |
| 4 | **Library** (Purchase of assets like books & journals) |  |  |  |
| **TOTAL (B)** | | **500000** | **500000** | **-** |
| **C. REVOLVING FUND** | |  |  |  |
| **GRAND TOTAL (A+B+C)** | | **7807000** | **7771887** | **35113** |

**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** |
| **Nursery** |  |  |  |  |
| April 2016 to March 2017 | 191204 | 159151 | 14775 | 335580 |
| April 2017 to March 2018 | 335580 | 116918 | 79318 | 373180 |
| **Vermi compost** |  |  |  |  |
| April 2016 to March 2017 | 53215 | 4194 | - | 57409 |
| April 2017 to March 2018 | 57409 | 15827 | 4790 | 68446 |
| **Mushroom Spawn** |  |  |  |  |
| April 2016 to March 2017 | 4899 | 9674 | 1174 | 13399 |
| April 2017 to March 2018 | 13399 | 14102 | - | 27501 |
| **Demonstration unit & instructional farm** |  |  |  |  |
| April 2016 to March 2017 | 429200 | 211231 | 40960 | 599471 |
| April 2017 to March 2018 | 599471 | 749933 | 443065 | 906339 |
| April 2018 to March 2019 | 1646262 | 1228595 | 447874 | 2426983 |

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

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

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