**ANNUAL REPORT 2014-15**

**(FOR THE PERIOD APRIL 2014 TO MARCH 2015)**

KRISHI VIGYAN KENDRA (IDUKKI)

PART I - GENERAL INFORMATION ABOUT THE KVK

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| KVK Address | Telephone | | E mail | Web Address |
| Office | Fax |
| Bapooji Krishi Vigyan Kendra, Santhanpara P.O., Idukki (Dt.),  Pin-685619, Kerala. | 04868 – 247541,  247715. | Nil | kvksanthanpara@gmail.com | www.kvkidukki.org |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Address | Telephone | | E mail | Web Address |
| Office | Fax |  |  |
| Bapooji Sevak Samaj,  Kakkattu,  Meenadom P.O.,  Pampady, Kottayam (Dt.),  Pin-686 516, Kerala. | 0481-2506271  +91 9446826019 | 04868-247048 | bkvkchairperson@gmail.com | www.kvkidukki.org |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Telephone / Contact | | |
|  | Residence | Mobile | Email |
| Dr. Binu John Sam, Programme Coordinator i/c. | Nil | +91 9061628822 | binujohnsambkvk@gmail.com |

1.4. Year of sanction: 1994.

**1.5. Staff Position (as on 31st March 2015)**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Sanctioned post | Name of the incumbent | Designation | M/F | Discipline | Highest Qualification  (for PC, SMS and Prog. Asst.) | Pay  Scale | Basic pay | Date of joining KVK | Permanent  /Temporary | Category (SC/ST/  OBC/  Others) |
| 1 | Programme  Coordinator | Vacant | Programme  Coordinator | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| 2 | SMS | Dr. S. Jayababu | Subject Matter Specialist | M | Animal Science | B.V.Sc. & AH | 15600-39100 | 21000 | 19-06-1995 | Permanent | Others |
| 3 | SMS | Manju Jincy Varghese | Subject Matter Specialist | F | Soil Science | M.Sc. Agriculture (Soil Science) | 15600-39100 | 21000 | 10-01-2011 | Permanent | Others |
| 4 | SMS | Dr. Benjamin Mathew | Subject Matter Specialist | M | Agri. Extension | Ph.D. Horticulture | 15600-39100 | 21000 | 17-01-2011 | Permanent | Others |
| 5 | SMS | Dr. Binu John Sam | Subject Matter Specialist | M | Horticulture | Ph.D. Horticulture | 15600-39100 | 21000 | 17-01-2011 | Permanent | Others |
| 6 | SMS | Sudhakar Soundarajan | Subject Matter Specialist | M | Plant Protection | M.Sc. Agricultural Entomology, MBA | 15600-39100 | 21000 | 27-01-2011 | Permanent | OBC |
| 7 | SMS | Vacant | Subject Matter Specialist | **-** | Agronomy | **-** | **-** | **-** | **-** | **-** | **-** |
| 8 | Programme Assistant (Lab Tech.)  / T-4 | Jayisy Joseph | Programme Assistant | F | Home Science | M. Sc. Home Science (Extension for Rural Development) | 9300-34800 | 13500 | 20-06-1995 | Permanent | Others |
| 9 | Programme Assistant (Computer)  / T-4 | Biju Narayanan | Programme Assistant | M | Computer Application | M.C.A., PGDCA | 9300-34800 | 13500 | 01-10-2007 | Permanent | OBC |
| 10 | Programme Assistant/ Farm Manager | Rachel Skariakutty | Programme Assistant | F | Rural Craft | M.A. Sociology (P.G. Diploma in Rural Development) | 9300-34800 | 13500 | 05-06-1995 | Permanent | Others |
| 11 | Assistant | Shaji. K. Kakkattu | Assistant | M | **-** | **-** | 9300-34800 | 13500 | 05-06-1995 | Permanent | Others |
| 12 | Jr. Stenographer | Daisy Daniel | Jr. Stenographer | F | **-** | **-** | 5200-20200 | 7100 | 05-06-1995 | Permanent | Others |
| 13 | Driver | P. Nandagopal | Driver | M | **-** | **-** | 5200-20200 | 7200 | 05-06-1995 | Permanent | OBC |
| 14 | Auxiliary Staff | K.T. Mathew | Peon/ Messenger | M | **-** | **-** | 5200-20200 | 7000 | 05-06-1995 | Permanent | Others |
| 15 | Supporting Staff-1 | K.O. Jose | Skilled Supporting Staff-1 | M | **-** | **-** | 5200-20200 | 7000 | 05-06-1995 | Permanent | Others |
| 16 | Supporting Staff-2 | P. Sabu | Skilled Supporting Staff-2 | M | **-** | **-** | 5200-20200 | 7000 | 05-06-1995 | Permanent | Others |

**1.6. Total land with KVK (in ha) :** 27.60 ha.

|  |  |  |
| --- | --- | --- |
| S. No. | Item | Area (ha) |
| 1 | Under Buildings | 0.074 ha |
| 2. | Under Demonstration Units | 0.5 ha |
| 3. | Under Crops | 0.5 ha |
| 4. | Orchard/Agro-forestry | 0.5 ha |
| 5. | Others | 26.026 ha |

**1.7. Infrastructural Development:**

**A) Buildings**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Name of building | Source of  funding | Stage | | | | | |
| Complete | | | Incomplete | | |
| Completion  Date | Plinth area (Sq. m.) | Expenditure (Rs.) | Starting Date | Plinth area  (Sq. m.) | Status of construction |
| 1. | Administrative  Building | ICAR | 2002 | 740 | 47,85,208.10 | - | - | - |
| 2. | Farmers’ Hostel | NA | - | - | - | - | - | *Master Plan & Estimate submitted. Sanction pending*. |
| 3. | Staff Quarters | NA | - | - | - | - | - | - |
| 4. | Demonstration Units |  |  |  |  |  |  |  |
|  | 1. Duck cum fish culture unit. | RF | 2009 | 50 | 7,000.00 | - | - | - |
|  | 2. Mushroom unit | Grama Panchayat, Santhanpara | 2002 | 10 | 85,000.00 | - | - | - |
|  | 3. Spawn production unit | SHM | 2009 | 10 | 3,00,000.00 | - | - | - |
|  | 4. Mist Chamber | SHM | 2009 | 96 | 2,72,832.00 | - | - | - |
|  | 5. Rain Shelter | SHM | 2009 | 50 | 1,04,091.00 | - | - | - |
| 5 | Fencing | NA | - | - | - | - | - | *Urgent requirement as the area is constantly facing intuition of wild animals and other intruders* |
| 6 | Rain Water harvesting system | NA | - | - | - | - | - | - |
| 7 | Threshing floor | NA | - | - | - | - | - | - |
| 8 | Farm godown | NA | - | - | - | - | - | - |
| 9 | Vehicle garage |  |  |  |  |  |  | *Urgently required* |

B) Vehicles

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type of vehicle | Year of purchase | Cost (Rs.) | Total kms. Run | Present status |
| Mahindra Bolero SLE | May - 2012 | 5,78,380.36 | 61561.2 | Good condition. |
| Honda Aviator | March - 2009 | 50,000.00 | 10279 | Running condition, needs servicing |
| Motor Bike (Suzuki Shogun) | January - 1995 | 37,972.78 | 8864 | Not in use. |

**C) Equipments & AV aids**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of the equipment** | **Year of purchase** | **Cost (Rs.)** | **Present status** |
| **A.V. aids (Specify)** | | | |
| Television | 1995 | 20,894.00 | Not working |
| GE OHP | 1996 | 7,100.00 | Good, but not in use |
| ZETT Slide Projector | 1996 | 11,556.00 | Not working |
| Sharp Video Player | 1996 | 10,000.00 | Not working |
| Pentax SLR Camera | 1996 | 13,599.15 | Not working |
| Ahuja Amplifier SSA 160 636956 | 2003 | 7,010.00 | Good Condition |
| Ahuja Speaker, SRX50DX | 2003 | 1,825.00 | Good Condition |
| Ahuja Mike SHM 1000XLR | 2003 | 2,295.00 | Not in use |
| Ahuja Mike ASMT 80 XLR | 2003 | 1,470.00 | Good Condition |
| Ahuja mike Stand DGV | 2003 | 510.00 | Good Condition |
| Ahuja Mike stand DGT | 2003 | 295.00 | Good Condition |
| Ahuja portable teaching wireless WA 320 AWL 321 | 2003 | 9,700.00 | Good Condition |
| Honda generator Model EBK 2000 AC | 2003 | 32,490.00 | Good Condition |
| LPG Generator 5000 CLS | 2011 | 100000.00 | Good Condition |
| LCD Projector (EPSON\_EBW8) | 2010 | 55186.00 | Good Condition |
| Liberty Show Juno 5 x 7 (MW) Screen | 2010 | 5885.00 | Good Condition |
| Kodak Knoma Camera | 1995 | 1550.00 | Obsolete |
| Tripod Screen 52x70 inch | 1996 | 2029.50 | In Working condition |
| **Soil Science Lab Equipments (Specify)** | | | |
| KEMI HOT PLATE with Energy Regulator | 2006 | 5,400.00 | Bad |
| Electronic Balance | 2006 | 1,00,000.00 | Under use but needs repair |
| Physical Balance | 2006 | 8,991.00 | Good |
| Spectrophotometer | 2006 | 1,17,499.00 | Under use but needs repair |
| Electronic Automatic KEL PLUS model KES 12L (Nitrogen Analyzer) | 2006 | 97,043.00 | Under use but needs repair |
| Conductivity Meter (PH Meter Utech 510) | 2006 | 21,935.00 | Under use but needs repair |
| HOT AIR OVEN | 2006 | 13,725.00 | Good |
| Water bath WDB2 350 x 400 100mm Size 12 | 2006 | 41,895.00 | Good |
| Flame Photometer | 2006 | 45,000.00 | Under use but needs repair |
| Conductivity Meter | 2006 | 13,500.00 | Not working and requires new |
| LG 280 Litre Fridge Model – GI 296 TM V-Guard Stabilizer | 2006 | 250.00 | Good |
| Mixer grinder 750 Watts | 2006 | 4,500.00 | Bad and requires new |
| Online UPS System with Battery | 2006 | 36,916.00 | Needs repair |
| Fume Cupboard KEMI | 2006 | 2,68,192.00 | Good |
| **Bio-control Lab Equipments** | | | |
| Laminar Flow Chamber | 2000 | 50,000.00 | Under use but needs repair |
| Refrigerator | 2000 | 10,760.00 | Under use but needs repair |
| Chemical Balance | 2000 | 1,800.00 | Bad and required new |
| Auto Clave | 2000 | 19,000.00 | Bad and required new |
| Step up Stabilizer | 2008 | 4,595.00 | Good |
| Other Equipments | | | |
| FACIT Typewriter (Malayalam) | 1995 | 9,735.00 | Obsolete. |
| FACIT Typewriter (English) | 1995 | 9429.00 | Obsolete. |
| Stencil Duplicator | 1995 | 13,700.00 | Obsolete. |
| Ortem sewing machine | 1995 | 2,300.00 | Obsolete. |
| Computer with Printer | 2003 | 49,750.00 | Obsolete, needs to be replaced by a laptop & printer |
| Photostat Machine | 2003 | 80,000.00 | Bad and outdated machine, urgently requires a new machine |
| Brush Cutter | 2009 | 23,726.00 | Good, needs servicing |
| Fax Machine | 2009 | 15,000.00 | Needs servicing |
| Laptop Computer (DELL Studio 14 N) | 2010 | 37,150.00 | Good |
| Inkjet Printer (Epson TX 111 AIO) | 2010 | 1,779.00 | Good |

**1.8. Details SAC meeting conducted in 2014-15**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No. | Date | Number of Participants | No. of absentees | Salient Recommendations | Action taken |
| 1. | 10/8/2014 | 35 | 8 | * Promoting organic vegetable cultivation * Supply of quality planting materials of black pepper * GAP in Cardamom & Black pepper * Production of good quality bio-agents | * Organic farming training conducted * Good quality rooted pepper cuttings supplied to farmers * GAP field identified * Bio-agents like Trichoderma, Pseudomonas, Metarhizium and EPN supplied to farmers |

**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 | Cardamom and Pepper based farming system in the High Ranges of the District |
| 2 | Paddy belts in specific locations |
| 3 | Homestead based farming |
| 4 | Tea plantation |
| 5 | Vegetables (Bitter gourd & Cowpea) |
| 6 | Cool season vegetables in Devikulam Block |
| 7 | Banana cropping |
| 8 | Rubber as mono-crop |
| 9 | Dairying |

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

|  |  |  |
| --- | --- | --- |
| S. No | Agro-climatic Zone | Characteristics |
| 1. | Zone-XIII | High Ranges |
| 2. | Zone-VII | *Malayoram* |
| 3. | High altitude zone – Vattavada & Kanthalloor | Climate suitable for cool season vegetables and temperate fruits |

|  |  |  |
| --- | --- | --- |
| S. No | Agro ecological situation | Characteristics |
| 1. | Agro Ecological Zone-1 | Major part is mono-cropped with rubber, other areas - homestead farming is practiced with tapioca, banana and vegetables, altitude up to 500M above mean sea level, humid tropics spread over the zone. South West and North East monsoon are active and moderately distributed. South West monsoon with June maximum (South of 110 N latitude) |
| 2. | Agro Ecological Zone-2 | Major cropping pattern – Pepper, Cardamom, Coffee, Areca nut, Cocoa and Rubber intercropped, altitude 500M above mean sea level, humid tropics spread over the zone. Steep slopes |
| 3. | Agro Ecological Zone-3 | High altitude zone – Vattavada & Kanthalloor. Cool season vegetables occupy major area. Potato, temperate fruits are grown in a small scale. Zone includes the only wheat-growing tract of Kerala. North-East monsoon is prominent. |

2.3 Soil type/s

|  |  |  |  |
| --- | --- | --- | --- |
| S. No. | Soil type | Characteristics | Area in ha |
| 1. | Manakkattu series | Clayey very deep, developed from gneissic parent material | - |
| 2. | Cheenikuzhy series | Fine loamy texture | - |
| 3. | Thommankuthu series | Clayey texture | - |
| 4. | Venmani series | Clayey texture | - |
| 5. | Marayoor series | Clay loam to clayey texture | - |
| 6. | Pampadumpara series | Clayey texture | - |

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 | Cardamom | 32723 | 7232 | 250 |
| 2 | Pepper | 87274 | 30919 | 354 |
| 3 | Banana | 2665 | 23265 | 8730 |
| 4 | Rice | 1819 | 4744 | 2608 |
| 5 | Coconut | 17012 | 80 million nuts | 5209 (Numbers/ha) |
| 6 | Tapioca | 6223 | 240290 | 37883 |
| 7 | Coffee | 12915 | 8150 | 616 |
| 8 | Tea | 24648 | 44192 | 1514 |

**Source of Data: -** Economics and Statistics Department, Kerala State.

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

2.5. Weather data

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Month | Rainfall (mm) | Temperature 0 C | | Relative Humidity (%) |
|  |  | Maximum | Minimum |  |
| April 2014 | 178.6 | 29.0 | 17.9 | 97.1 |
| May 2014 | 24.9 | 28.3 | 19.2 | 96.9 |
| June 2014 | 203.3 | 25.0 | 18.1 | 98.9 |
| July 2014 | 182.2 | 24.7 | 17.8 | 99.0 |
| August 2014 | 290.0 | 23.6 | 17.4 | 99.4 |
| September 2014 | 148.40 | 25.4 | 17.7 | 98.2 |
| October 2014 | 327.9 | 26.1 | 17.7 | 97.3 |
| November 2014 | 150.8 | 26.6 | 16.6 | 94.8 |
| December 2014 | 12.7 | 24.5 | 16.3 | 94.8 |
| January 2015 | 5.6 | 23.6 | 13.8 | 95.3 |
| February 2015 | 4.10 | 26.6 | 15.3 | 93.7 |
| March 2015 | 11.2 | 27.6 | 16.5 | 85.6 |

**Source of Data**: **-** Indian Cardamom Research Institute, Myladumpara, Idukki.

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Category** | **Population** | **Production** | **Productivity** |
| **Cattle** | | | |
| *Crossbred* | 90081 | 234638 ton (Milk) & 9090.87 MT (meat) | **-** |
| *Indigenous* |  | 809 ton (milk) | **-** |
| **Buffalo** | 5627 | 1181 ton (milk) & 7385.62 MT (meat) | **-** |
| **Sheep** | | | |
| Crossbred | 25 |  | **-** |
| *Indigenous* |  |  |  |
| **Goats** | 97974 | 5898 ton (Milk) & 692.10 MT (meat) | **-** |
| **Pigs** |  |  |  |
| *Crossbred* | 11631 | 3136.5 MT (Meat) | **-** |
| *Indigenous* |  |  |  |
| **Rabbits** | 39628 | **-** | **-** |
| **Poultry** | | | |
| Hens | 531501 | 8.64 crores (Egg) | **-** |
| *Desi* |  | 3.38 crores (Egg) | **-** |
| *Improved* |  | 5.25 crores (Egg) & 12019.8 MT (Meat) | **-** |
| Ducks |  | 1.21 crores (Egg) | **-** |
| Turkey and others |  | **-** | **-** |

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

**Source of Data**: **-** District Animal Husbandry Office, Thodupuzha, Idukki.

* 1. District profile has been **Updated** for 2014-15 Yes / No: Yes
  2. 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 | Devikulam | Adimali | Adimali | 1995 onwards | Black Pepper, Cardamom, Banana, Vegetables | Pest outbreaks | Integrated Pest Management (IPM) |
| 2 | Udumbanchola | Chinnakanal, Bison Valley, Santhanpara, Senapathy, Rajakumari, Rajakad & Nedumkandam | Chinnakanal, Bison Valley, Santhanpara, Senapathy, Rajakumari, Rajakad & Nedumkandam | 1995 onwards | Cardamom, Black Pepper, Banana, Vegetables & Mushroom | 1) Pest and Disease outbreaks.  2) Indiscriminate use of PP Chemicals.  3) Low yield, Indiscriminate use of chemical inputs.  4) Mastitis.  5) Animal nutrition and production management. | 1) Integrated Nutrient Management.  2) Integrated Farming System.  3) Integrated Pest Management.  4) Integrated Crop Management.  5) Disease management in dairy cows.  6) Scientific management of livestock & poultry. |

2.9 Priority thrust areas:

|  |  |
| --- | --- |
| S. No. | Thrust area |
| 1. | Integrated Nutrient Management in major crops |
| 2. | IPDM in major Plantation and Vegetable crops |
| 3. | Integrated sustainable farming system models |
| 4. | Organic agriculture |
| 5. | Scientific management of livestock and poultry |
| 6. | Scientific fertility management |
| 7. | Improvement in reproductive efficiency in dairy cattle |
| 8. | Feed and nutrient management in livestock |
| 9. | Value addition of farm produce |

**PART III - TECHNICAL ACHIEVEMENTS**

**3.A. Details of target and achievements of mandatory activities**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **OFT** | | | | **FLD** | | | |
| **1** | | | | **2** | | | |
| **Number of OFTs** | | **Number of farmers** | | **Number of FLDs** | | **Number of farmers** | |
| **Targets** | **Achievement** | **Targets** | **Achievement** | **Targets** | **Achievement** | **Targets** | **Achievement** |
| 7 | 5 | 37 | 27 | 16 | 12 | 155 | 108 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Training** | | | | **Extension Programmes** | | | |
| **3** | | | | **4** | | | |
| **Number of Courses** | | **Number of Participants** | | **Number of Programmes** | | **Number of participants** | |
| **Targets** | **Achievement** | **Targets** | **Achievement** | **Targets** | **Achievement** | **Targets** | **Achievement** |
| 132 | 102 | 3960 | 3060 | 50 | 36 | 250 | 215 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Seed Production (Qtl.)** | | **Planting materials (Nos.)** | |
| **5** | | **6** | |
| **Target** | **Achievement** | **Target** | **Achievement** |
|  |  | 10000 | 6840 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Livestock, poultry strains and fingerlings (No.)** | | **Bio-products** | |
| **7** | | **8** | |
| **Target** | **Achievement** | **Target** | **Achievement** |
|  |  | Trichoderma-1000 L | 1163 L |
|  |  | Pseudomonas-2000 L | 2271.50 L |
|  |  | EPN-25000 Nos. | 49000 Nos. |
|  |  | Pheromone trap-1000 Nos. | 951 Nos. |
|  |  | Detergent powder-50 kg | 80 kg |
|  |  | Liquid soap-70 L | 75 L |

**3.B1. Abstract of interventions undertaken based on thrust areas identified for the district as given in Sl.No.2.7**

| **S. No** | **Thrust area** | **Crop/**  **Enterprise** | **Identified Problem** | **Interventions** | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Title of OFT if any** | **Title of FLD if any** | **Number of Training (farmers)** | **Number of Training (Youths)** | **Number of Training (extension personnel)** | **Extension activities**  **(No.)** | **Supply of seeds (Qtl.)** | **Supply of planting materials (No.)** | **Supply of livestock (No.)** | **Supply of bio products** | |
|  |  |  |  |  |  |  |  |  |  |  |  |  | **No.** | **Kg** |
| 1 | Crop improvement | Tapioca | Soil acidity leads to Zn and mg Deficiency resulting in low yield | Management practices for secondary and micronutrient disorders in tapioca | - | 0 | 0 | 0 | FAS-10  FV- 10 | - | - | - | - | - |
| 2 | Crop improvement | cardamom | Unscientific nutrient management | - | Site specific nutrient management in cardamom | 5 | 0 | 0 | FAS-25  FV- 27  DV-15  Method demo-5 | - | - | - | - | - |
| 3 | Crop improvement | Black Pepper | Berry shedding | - | Management of berry drop in black pepper | 5 | 0 | 0 | FAS-15  FV-15  DV-10 | - | - | - | - | - |
| 4 | Crop improvement | Banana | Unscientific nutrient management | - | INM in banana cv. Nendran for high ranges | 5 | 0 | 0 | FAS-25  FV-10  DV-10 | - | - | - | - | - |
| 5 | Crop improvement | Tapioca | Rodents and wild boar attack | - | Castor based herbal extract for the management of rodents and wild boar | 2 | 0 | 0 | FAS-35  FV-5  DV-9  Method demo-2 | - | - | - | - | - |
| 6 | Varietal evaluation | Black Pepper | High susceptibility to foot rot disease resistance varieties only available | Assessment of suitable Black pepper foot rot (Quick wilt ) resistant variety for Idukki district | - | 3 | 0 | 0 | FAS-15  FV- 5 | - | - | - | Pseudomonas  Trichoderma  VAM | - |
| 7 | IPM | Cardamom | Heavy root grub infestation | - | Popularization of EPN for control of cardamom root grub. | 10 | 0 | 0 | FAS-18  FV- 10 | - | - | - | EPN-24000 nos. | - |
| 8 | IPM | Cardamom | Young suckers with dead heart symptoms and indiscriminate use of PPC | - | Management of shoot fly (*Formosina flavipes* ) in small cardamom | 10 | 0 | 0 | FAS-8  FV- 7 | - | - | - | Thiamethoxam | 5 |
| 9 | Integrated Crop Management | Black Pepper | High incidence of P & D in living standards of black pepper. | Use of concrete poles as standards in Black Pepper | - | 0 | 0 | 0 | 2 | - | - | - | - | - |
| 10 | Self-employment and Income generation of rural youth & women. | Mushroom | Low productivity in oyster mushrooms | Assessment of different additives in oyster mushroom bed preparation for maximizing yield | - | 3 | 2 | 0 | 0 | Spawn – 240  pkts | - | - | - | - |
| 11 | Value addition | Mushroom | Mushrooms are highly perishable | - | Packaging of mushrooms in tray packs with cling film cover | 6 | 4 | 0 | 10 | - | - | - | - | - |
| 12 | Evaluation of breeds | Poultry | Low egg production | Assessing the performance of Gramasree, Austrawhite & Sasso variety under high range conditions | - | 3 | 0 | 0 | 2 | 0 | 0 | 120 | - | - |
| 13 | Animal nutrition & production management | Dairy cattle | Low milk production & unawareness of mixed fodder system | - | Popularization of mixed fodder system | 2 | 0 | 0 | 1 | 0 | 2.4 kg fodder seeds | 0 | - | - |
| 14 | Disease management | Dairy cattle | Incidence of mastitis | - | Prophylactic management of Mastitis in Dairy animal by using antiseptic solution in Teat cups | 2 | 0 | 0 | 1 | 0 | 0 | 0 | - | - |
| 15 | Nutrition management | Dairy cattle | Low milk production | - | Assessment of GRAND supplement in Cross Bred Cows | 3 | 0 | 0 | 1 | 0 | 0 | 20000 nos. GRAND supplement sachet | - | - |

**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 | Management practices for secondary and micronutrient disorders in tapioca | KAU & TNAU | Tapioca | 5 | 0 | 0 | FAS- 10  FV- 10 |
| 2 | Site specific nutrient management in | ICRI | **Cardamom** | **0** | **10** | 5 | FAS-25  FV- 27  DV-15  Method demo-5 |
| 3 | Management of berry drop in black pepper | IISR | **Black Pepper** | **0** | **10** | **5** | FAS-15  FV-15  DV-10 |
| 4 | INM in banana cv. Nendran for high ranges | KAU | **Banana** | **0** | **10** | **5** | FAS-25  FV-10  DV-10 |
| 5 | Castor based herbal extract for the management of rodents and wild boar | NIPHM, Hyderabad & OFT-KVK Idukki | **Tapioca** | **0** | **10** | **2** | FAS-35  FV-5  DV-9  Method demo-2 |
| 6 | Assessment of suitable Black pepper foot rot (Quick wilt ) resistant variety for Idukki district | Innovation and IISR | Black pepper | 5 | 0 | 3 | Field visit -5  FAS-15 |
| 7 | Popularization of EPN for control of cardamom root grub. | ICRI | Cardamom | 0 | 10 | 2 | Field visit -10  FAS-18 |
| 8 | Management of shoot fly (*Formosina flavipes*) in small cardamom | Zonal Horticultural Research station, UAS, Dharwad. | Cardamom | 0 | 10 | 2 | Field visit -7  FAS-8 |
| 9 | Use of concrete poles as standards in Black Pepper | KAU, IISR | Black Pepper | 3 | 0 | 0 | Field visits - 2 |
| 10 | Assessment of different additives in oyster mushroom bed preparation for maximizing yield | KAU, TNAU | Mushroom | 4 | 0 | 5 | Field visits – 10  FAS – 20  Demonstrations - 5 |
| 11 | Packaging of mushrooms in tray packs with cling film cover | OFT conducted at Bapooji KVK, Idukki | Mushroom | 0 | 1 | 2 | Field visits - 16  FAS - 16 |
| 12 | Assessing the performance of Gramasree,Austrawhite &Sasso variety under high range conditions | KAU & CPDU | Poultry | 10 | 0 | 3 | Field visits - 2 |
| 13 | Popularization of Mixed fodder System | KAU & TANUVAS | Dairy Cattle | 0 | 10 | 2 | Field visit - 1 |
| 14 | Prophylactic management of Mastitis in Dairy animal by using antiseptic solution in Teat cups | TANUVAS | Dairy Cattle | 0 | 10 | 2 | Field visit - 1 |
| 15 | Assessment of GRAND supplement in Cross Bred Cows | TANUVAS | Dairy Cattle | 0 | 10 | 3 | Field visit - 1 |

**3.B2 contd..**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No. of farmers covered** | | | | | | | | | | | | | | | | |
| **OFT** | | | | | **FLD** | | | | **Training** | | | | **Others (Specify)** | | | |
| **General** | | | **SC/ST** | | **General** | | **SC/ST** | | **General** | | **SC/ST** | | **General** | | **SC/ST** | |
|  | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** |
|  | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | **19** | **20** | **21** | **22** | **23** | **24** |
| 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 42 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 9 | 1 | 0 | 0 | 34 | 12 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 |
| 10 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56 | 67 | 12 | 8 | 64 | 21 | 11 | 6 |
| 11 | 0 | 0 | 0 | 0 | 6 | 4 | 0 | 0 | 6 | 12 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 18 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | 0 | 0 | 0 | 0 | 9 | 1 | 0 | 0 | 10 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | 0 | 0 | 0 | 0 | 7 | 3 | 0 | 0 | 20 | 12 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | 0 | 0 | 0 | 0 | 7 | 3 | 0 | 0 | 13 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |

**PART IV - On Farm Trial**

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

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thematic areas | Cereals | Oilseeds | Pulses | Commercial Crops | Vegetables | Fruits | Flower | Plantation crops | Tuber Crops | TOTAL |
| Integrated Nutrient Management |  |  |  |  |  |  |  |  |  |  |
| Varietal Evaluation |  |  |  |  |  |  |  |  |  |  |
| Integrated Pest Management |  |  |  |  |  |  |  |  |  |  |
| Integrated Crop Management | - | - | - | 1 | - | - | - | - | - | 1 |
| 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 | - | - | - | 1 | - | - | - | - | - | 1 |
| **Total** | **-** | **-** | **-** | **2** | **-** | **-** | **-** | **-** | **-** | **2** |

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

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Thematic areas** | **Cattle** | **Poultry** | **Piggery** | **Rabbitry** | **Fisheries** | **TOTAL** |
| Evaluation of Breeds | - | 1 | - | - | - | 1 |
| Nutrition Management |  |  |  |  |  |  |
| Disease of Management |  |  |  |  |  |  |
| Value Addition |  |  |  |  |  |  |
| Production and Management |  |  |  |  |  |  |
| Feed and Fodder |  |  |  |  |  |  |
| Small Scale income generating enterprises |  |  |  |  |  |  |
| **TOTAL** | - | **1** | - | - | - | **1** |

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

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

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Thematic areas** | **Crop** | **Name of the technology assessed** | **No. of trials** | **Number of farmers** | **Area in ha (Per trail covering all the Technological Options)** |
| Integrated Nutrient Management | Tapioca | Management practices for secondary and micronutrient disorders in tapioca | 5 | 5 | 0.24 |
| Varietal Evaluation | Black Pepper | Assessment of suitable Black Pepper Foot rot (Quick wilt) resistant variety for Idukki District | 5 | 5 | 0.08 |
|  |  |  |  |  |
| Integrated Pest Management |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Crop Management | Black Pepper | Use of concrete poles as standards in Black Pepper | 3 | 3 | 0.25 |
|  |  |  |  |  |
| 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 | Mushroom | Assessment of different additives in oyster mushroom bed preparation for maximizing yield | 4 | 4 | 0.05 |
|  |  |  |  |  |
| **Total** |  |  | **17** | **17** | **0.62** |

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

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Thematic areas** | **Name of the livestock enterprise** | **Name of the technology assessed** | **No. of trials** | **No. of farmers** |
| Evaluation of breeds | Poultry | Assessing the performance of Gramasree, Austra white & Sasso var. under High Range conditions | 10 | 10 |
| Nutrition management |  |  |  |  |
| Disease management |  |  |  |  |
| Value addition |  |  |  |  |
| Production and management |  |  |  |  |
| Feed and fodder |  |  |  |  |
| Small scale income generating enterprises |  |  |  |  |
| **Total** | | | **10** | **10** |

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

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

**Results of On Farm Trial**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop/ enterprise | Farming situation | Problem definition | Title of OFT | No. of  trials | Technology Assessed | Parameters of assessment | Data on the parameter | Results of assessment | Feedback from the farmer | Any refinement needed | Justification for refinement |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Tapioca | Irrigated | Soil acidity leads to zinc and Boron deficiency resulting in low yield | Management practices for secondary & micronutrient disorders for Tapioca in acid soils | 5 | Management practices for secondary and micronutrient disorders in tapioca | 1) Weight of tubers/clump (Kg)  2) Yield (t/ha)  3) BCR | - | Foliar spray was found effective for managing secondary and micronutrient disorders | - | - | - |
| Black Pepper | Perennial crop | High incidence of P & D in living standards of black pepper. | Use of concrete poles as standards in Black Pepper | 3 | Using concrete poles as standards instead of live standards | BCR | TO1 – 1.82  TO2 – 1.72 | Drying of anchoring roots seen on concrete poles resulting in total loss of the crop | Adoptability restricted for small farmers as cost involved is high and end result discouraging | - | - |
| Mushroom | Commercial crop | Low productivity in oyster mushrooms | Assessment of different additives in oyster mushroom bed preparation for maximizing yield | 4 | Using different additives like urea, Bengal gram flour, groundnut cake to enhance the yield | Average yield per bed  BCR | TO1 – 0.84  2.22 | All other treatments failed due to repeated contamination | Repeated contamination seen on addition of different additives and so not viable | - | - |
| Black pepper | Perennial | High susceptibility to foot rot disease variety | Assessment of suitable Black pepper foot rot (Quick wilt) resistant variety for Idukki district | 5 | 1) Farmers practice (Chengannoor)  2) IISR –Thevam  3) Ashwati  4) Suvarna | % reduction in quick wilt incidence & yield | *Ongoing till 2015-16* | | | | |
| Poultry | Homesteads | Low egg production and poor growth performance | Assessing the performance of Gramasree, astra White and sasso variety under high range conditions | 10 | Assessing the performance of Gramasree, astra White and sasso variety under high range conditions | 1) Egg production 2)growth rate and mortality rate | Observation for one year | Desi-71  Gramasree-169  Astra white-211  Sasso-157  Growth Rate:-  Desi-0%  Gramasree-9.5%  Astrawhite-12.5%  Sasso-9%  Mortality Rate:-  All-0 | Highly effective and to overcome financial status | Nil | Nil |

**Contd..**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Technology Assessed | Source of Technology | Production | Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year) | Net Return (Profit) in Rs. / unit | BC Ratio |
| 13 | 14 | 15 | 16 | 17 | 18 |
| Technology option 1 (FP - No measures) | - | 25 | t/ha | 20,000 | 1.25 |
| Technology option 2 (Foliar spray of 0.5% MgSO4 + 0.5% ZnSO4 at 60th and 90th DAP) | KAU | 30 | t/ha | 32,000 | 1.33 |
| Technology option 3 (Soil application of MgSO4@ 20 kg/ha + ZnSO4 @12.5 kg/ha within 2 months of planting) | TNAU | 40 | t/ha | 28,000 | 1.30 |
| Technology option 1 (FP - Live standards of Glyricidia ) | - | More than 50% Glyricidia standards damaged by caterpillar | t/ha | 300000 | 1.82 |
| Technology option 2 (Live standards of Erythrina) | KAU | More than 30% Erythrina standards damaged by Erythrina wasp | t/ha | 285000 | 1.72 |
| Technology option 3 (Concrete Poles) | IISR | Concrete poles as standards | crop loss | 0 | 0 |
| Technology option 1 Farmers Practice (FP- Paddy Straw without additives) | KAU | Oyster mushroom – Average yield of 0.8 kg per bed in 4 harvests | kg/bed | Rs. 200/bed | 2.22 |
| Technology option 2 (TO 1 + Urea spray @ 1g/lit) | Egerton University, Kenya | Repeated contamination | kg/bed | 0 | 0 |
| Technology option 3 (TO 1 + Addition of Green gram flour) | TNAU, Coimbatore | Repeated contamination | kg/bed | 0 | 0 |
| Technology option 4 (TO 1 + Addition of groundnut cake) | Annamalai University, Chidambaram | Repeated contamination | kg/bed | 0 | 0 |
| Technology option 1 (FP - Chengannoor variety Black pepper) | Local | - | - | - | *Ongoing* |
| Technology option 2 (IISR Thevam variety Black pepper) | IISR | - | - | - |
| Technology option 3 (Ashwati variety Black pepper) | Farmers developed variety from Wyanad | - | - | - |
| Technology option 4 (Suvarna variety Black pepper) | Farmers developed variety from Wyanad | - | - | - |
| Technology option 1 (FP - Rearing desi birds) | - | 14 Eggs / month | 71 nos. | 215.00 | 1.69 |
| Technology option 2 (Rearing Gramasree) | KAU | 20 Eggs / month | 169 nos. | 500.00 | 2.25 |
| Technology option 3 (Rearing Austrawhite) | KAU | 25 Eggs / month | 211 nos. | 740.00 | 2.85 |
| Technology option 4 (Rearing Sasso) | CPDO | 10 Eggs / month | 157 nos. | 380.00 | 1.95 |

4.C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following

details

**1)**

1 Title of Technology Assessed: **Management practices for secondary and micronutrient disorders in tapioca**

2 Problem Definition: Soil acidity leads to Zn and mg Deficiency resulting in low yield.

3 Details of technologies selected for assessment:

**Tech-1**: No measures taken (Farmers practice)

**Tech-2**: Foliar spray of 0.5% MgSO4 + 0.5% ZnSO4 at 60th and 90th DAP

**Tech-3**: Soil application of MgSO4@ 20 kg/ha + ZnSO4 @12.5 kg/ha within 2 months of planting

4 Source of technology: KAU & TNAU.

5 Production system and thematic area: Nil.

6 Performance of the Technology with performance indicators: Nil.

7. Feedback, matrix scoring of various technology parameters done through farmer’s participation / other scoring

techniques: Nil.

8 Final recommendation for micro level situation: Nil.

9 Constraints identified and feedback for research: Nil.

10 Process of farmers participation and their reaction: Nil.

**2)**

1 Title of Technology Assessed: **Use of concrete poles as standards in Black Pepper**

2 Problem Definition: High incidence of pest & disease in living standards of black pepper.

3 Details of technologies selected for assessment: Using concrete poles as standards instead of live standards.

4 Source of technology: IISR.

5 Production system and thematic area: Integrated Crop Management in perennial crop of Black Pepper.

6 Performance of the Technology with performance indicators: Drying of anchoring roots seen resulting in total crop loss.

7. Feedback, matrix scoring of various technology parameters done through farmer’s participation / other scoring

techniques: Percentage of live standards affected by pests and diseases.

8 Final recommendation for micro level situation: Not suitable.

9 Constraints identified and feedback for research: Erection of poles is cumbersome and crop loss at later stage.

10 Process of farmers participation and their reaction: Adoptability restricted for small farmers as cost involved is high and crop loss at later stage.

**3)**

1 Title of Technology Assessed: **Assessment of different additives in oyster mushroom bed preparation for maximizing yield**

2 Problem Definition: Low productivity in oyster mushrooms.

3 Details of technologies selected for assessment: Using different additives like urea, Bengal gram flour, groundnut cake to enhance the yield.

4 Source of technology: Egerton University, Kenya; TNAU, Coimbatore and Annamalai University, Chidambaram.

5 Production system and thematic area: Self-employment and Income generation of rural youth & women.

6 Performance of the Technology with performance indicators: Yield per bed.

7 Feedback, matrix scoring of various technology parameters done through farmer’s participation / other scoring

techniques: Yield realization per bed in relation to different additives used.

8 Final recommendation for micro level situation: Not suitable for commercial practice.

9 Constraints identified and feedback for research: Repeated contamination.

10 Process of farmer’s participation and their reaction: Not suitable for commercial practice.

**4)**

1 Title of Technology Assessed: **Assessment of suitable Black Pepper Foot rot (Quick wilt) resistant variety for Idukki District**

2 Problem Definition: High susceptibility to foot rot disease of cultivated varieties.

3 Details of technologies selected for assessment: IISR-Thevam, Ashwathi and Suvarna variety Black Pepper.

4 Source of technology: IISR & Farmer developed variety.

5 Production system and thematic area: Pepper based cropping systems and Crop Improvement.

6 Performance of the Technology with performance indicators: Ongoing.

7. Feedback, matrix scoring of various technology parameters done through farmer’s participation / other scoring

techniques: Ongoing.

8 Final recommendation for micro level situation: Ongoing.

9 Constraints identified and feedback for research: Ongoing.

10 Process of farmers participation and their reaction: Ongoing.

**5)**

1 Title of Technology Assessed: **Assessing the performance of Gramasree, Austrawhite and Sasso variety under high range conditions**

2 Problem Definition: Low egg production and poor growth performance.

3 Details of technologies selected for assessment: Assessing the performance of Gramasree, Austrawhite and Sasso variety under high range conditions

4 Source of technology: KAU & CPDO.

5 Production system and thematic area: Evaluation of breeds.

6 Performance of the Technology with performance indicators: For more egg production.

7. Feedback, matrix scoring of various technology parameters done through farmer’s participation / other scoring

techniques: Assessing the performance of three varieties under high range conditions.

8 Final recommendation for micro level situation: Well adapted for high ranges and to improve financial status.

9 Constraints identified and feedback for research: Non-availability of chicks in time.

10 Process of farmers participation and their reaction: Well adapted and cooperated.

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

**PART V - FRONTLINE DEMONSTRATIONS**

**5. A. Summary of FLDs implemented during 2014-15**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Category | Farming  Situation | Season  and  Year | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Area (ha) | | No. of farmers/  demonstration | | | Reasons for shortfall in achievement |
| Proposed | Actual | SC/ST | Others | Total |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | Oilseeds |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | Pulses |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | Cereals |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | Millets |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | Vegetables | Sequential cropping | Year round | Different vegetables | Local | - | Safe to eat vegetables | Ensuring nutritional security through family farming | 0.4 | 0.12 |  | 3 | 3 | Dearth of funds |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | Flowers |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | Ornamental |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | Fruit | Irrigated | Seasonal | Banana | Nendran | - | Nutrient management | INM in Nendran | 1 | 1 | 0 | 10 | 10 | - |
|  |  | Monocrop | Summer | Banana | Nendran |  | Productivity improvement of major crops. | Management of lodging / breaking of banana pseudostem nearing maturity | 2.0 | 1.0 |  | 5 | 5 | Dearth of funds |
| 9 | Spices and condiments | Irrigated | Perennial crop | Black pepper | Karimunda | - | Crop improvement | Management of berry drop | 0.2 | 0.2 | 0 | 10 | 10 | - |
| 9.a. |  | Irrigated | Perennial crop | Cardamom | Njallani | - | Nutrient management | Soil test based fertilizer recommendation along with organic manures | 0.1 | 0.1 | 0 | 10 | 10 | - |
| 9.b. |  | Perennial | - | Cardamom | Njallani | - | IPM | Popularization of EPN for control of cardamom root grub. | 4 | 4 | 0 | 10 | 10 | - |
| 9.c. |  | Perennial | - | Cardamom | Njallani | - | IPM | Management of shoot fly (*Formosina flavipes* ) in small cardamom | 1 | 1 | 0 | 10 | 10 | - |
| 10 | Commercial crops |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | Medicinal and aromatic |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | Fodder | Homestead | Throughout the year | Mixed fodder | COFS 29  Desmanthus  Agathi  Subabul  Anjan grass  Stylo | - | Animal nutrition and production management | Popularization of mixed fodder system | 0.4 | 0.4 | 0 | 10 | 10 | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | Plantation |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | Fibre |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | Dairy | Homestead | Throughout the year | Dairy Cattle | Jersey | Cross bred | Disease management | Prophylactic management of mastitis in dairy animals by using antiseptic solution in teat cups | 10 | 10 | 0 | 10 | 10 | - |
|  |  | Homestead | Throughout the year | Dairy Cattle | Jersey and HF | Cross bred | Nutrition Management | Assessment of GRAND supplement in cross bred cows | 10 | 10 | 0 | 10 | 10 | - |
| 16 | Poultry |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | Rabbitry |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | Pigerry |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 | Sheep and goat |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | Duckery |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | Common carps |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | Mussels |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 | Ornamental fishes |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 | Oyster mushroom | Monocrop | - | Mushroom | Florida | - | Value addition | Packaging of mushrooms in tray packs with cling film cover | 10 units | 10 units | 0 | 10 | 10 | - |
|  |  | Monocrop | Year round | Mushroom | Florida |  | Productivity improvement of major crops. | Utilization of Spent Mushroom Compost (SMC) as a medium for vegetable production | 10 units | 0 | 0 | 0 | 0 | Dearth of funds |
| 25 | Button mushroom |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26 | Vermicompost |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27 | Sericulture |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28 | Apiculture |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29 | Implements |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30 | Others (Tapioca) | Rainfed | seasonal | Tapioca | Local |  | Crop improvement | Use of castor based herbal extract | 1 | 1 | 0 | 10 | 10 | - |
|  | Others (specify) |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Specialized EDP mode on production and value addition with marketing and branding**

Specialised EDP mode training on processing given for 5 selected members at Bapooji KVK. Group promotional activities and packaging aspects given for this group in May-2014. Labeling aspects given for Asparagus pickle (Kairali SHG), coconut chutney powder (Star SHG), curry powders (Gokul activity group), mushroom products (Aishwarya mushrooms). The unit members participated in the exhibitions on November and December - 2014 with their value added products.

**5. A. 1. Soil fertility status of FLDs plots during 2014-15**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 |  |  |  |  |  |  |  |  |  |  |  | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
| 2 | Pulses |  |  |  |  |  |  |  |  |  |  |  | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
| 3 | Cereals |  |  |  |  |  |  |  |  |  |  |  | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
| 4 | Millets |  |  |  |  |  |  |  |  |  |  |  | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
| 5 | Vegetables | Sequential cropping | Year round | Different vegetables | Local | - | Safe to eat vegetables | Ensuring nutritional security through family farming | Year round | M | M | M | | Bitter gourd |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
| 6 | Flowers |  |  |  |  |  |  |  |  |  |  |  | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
| 7 | Ornamental |  |  |  |  |  |  |  |  |  |  |  | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
| 8 | Fruit | Irrigated | Kharif | Banana | Nendran |  | Crop improvement | INM in nendran | - | H | H | M | | - |
|  |  | Monocrop | Summer | Banana | Nendran |  | Productivity improvement of major crops. | Management of lodging / breaking of banana pseudostem nearing maturity | Summer | M | M | M | | Banana |
| 9 | Spices and condiments | Irrigated | Perrinaial | Cardamom | Njallani |  | Crop improvement | Soil test based fertilizer recommendation | - | H | M | L | | - |
|  | Irrigated | Perrinaial | Pepper | Karimunda |  | Crop improvement | Management of berry drop | - | H | M | L | | - |
|  | Cardamom based cropping system | Perennial | Cardamom | Njallani | - | IPM | Popularization of EPN for control of cardamom root grub | - | H | H | L | | Cardamom |
|  | Cardamom based cropping system | Perennial | Cardamom | Njallani | - | IPM | Management of shoot fly (*Formosina flavipes* ) in small cardamom | - | H | H | L | | Cardamom |
| 10 | Commercial crops |  |  |  |  |  |  |  |  |  |  |  | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
|  | Medicinal and aromatic |  |  |  |  |  |  |  |  |  |  |  | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
|  | Fodder |  |  |  |  |  |  |  |  |  |  |  | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
|  | Plantation |  |  |  |  |  |  |  |  |  |  |  | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
|  | Fibre |  |  |  |  |  |  |  |  |  |  |  | |  |
|  | Mushroom | Monocrop | Year round | Mushroom | Florida | - | Productivity improvement of major crops. | Utilization of Spent Mushroom Compost (SMC) as a medium for vegetable production | Year round | - | - | - | | Not done |

**5. B. Results of Frontline Demonstrations**

**5. B.1. Crops**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop | Name of the technology demonstrated | Variety | Hybrid | Farming situation | No. of Demo. | Area  (ha) | Yield (q/ha) | | | | % Increase | \*Economics of demonstration (Rs./ha) | | | | \*Economics of check  (Rs./ha) | | | |
| Demo | | | Check | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
|  |  |  |  |  |  |  | H | L | A |  |  |  |  |  |  |  |  |  |  |
| Oilseeds |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pulses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cereals |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Millets |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vegetables | Ensuring nutritional security through family farming | Local | - | Sequential cropping | 3 | 0.12 | 5.17 | 4.08 | 4.63 | 0 | 100 | 4167 | 12017 | 7850 | 2.88 | Not practiced |  |  | NA |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Flowers |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ornamental |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fruit | INM in Nendran | Nendran | - | Irrigated | 10 | 1 | 301.4 | 275.6 | 288.5 | 227.3 | 26.92 | 200000 | 380000 | 180000 | 1.9 | 210000 | 300000 | 90000 | 1.42 |
|  | Management of lodging / breaking of banana pseudostem nearing maturity | Nendran | - | Monocrop | 5 | 1.0 | 300 | 292 | 296 | 185 | 60 | 151000 | 302095 | 151095 | 2.0 | 144050 | 168300 | 24250 | 1.17 |
| Spices and condiments | Soil test based fertilizer recommendation along with organic manure | Njallani | - | Irrigated | 10 | 0.1 | 9.8 | 10.0 | 9.9 | 8.0 | 25.0 | 70000 | 250000 | 180000 | 3.5 | 75000 | 150000 | 75000 | 2.0 |
| Management of berry drop | Karimunda | - | Irrigated | 10 | 0.2 | 2.6 | 2.5 | 2.6 | 2.1 | 23.81 | 103000 | 365000 | 354700 | 3.5 | 105000 | 265000 | 160000 | 2.5 |
| Popularization of EPN for control of cardamom root grub | Njallani | - | Perennial | 10 | 4 | - | - | H | - | 48 | 205000 | 597500 | 392500 | 2.9 | 181000 | 382800 | 201800 | 2.11 |
| Management of shoot fly (*Formosina flavipes* ) in small cardamom | Njallani | - | Perennial | 10 | 1 | - | - | H | - | 63 | 280000 | 753600 | 473600 | 2.6 | 218000 | 414200 | 196200 | 1.90 |
| Commercial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fibre crops like cotton |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Medicinal and aromatic |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fodder |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Plantation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fibre |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (Mushroom) | Packaging of mushrooms in tray packs with cling film cover | Florida | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23808 | 47413 | 23605 | 1.99 | 11970 | 18400 | 6430 | 1.53 |
|  | Utilization of Spent Mushroom Compost (SMC) as a medium for vegetable production | Florida |  | Monocrop | 0 | 0 |  |  |  |  | Not done |  |  |  |  |  |  |  |  |
| Others (Tapioca) | Use of castor based herbal extract for control of rodents and wild boar | local | - | Rainfede | 10 | 1 | 1.87 | 1.25 | 1.56 | 0.9 | 25 | 12500 | 15000 | 2500 | 1.2 | 14000 | 12000 | 2000 | 0.85 |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

\*\* BCR= GROSS RETURN/GROSS COST

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

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

5. B.2. Livestock and related enterprises

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Type of livestock | Name of the technology demonstrated | Breed | No. of Demo | No.  of Units | Yield (q/ha) | | | | % 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 | Popularization of Mixed Fodder System | Cross bred Cows | 10 | 10 | 13 | 18 | 14 | 13 | 15 | 13610 | 30420 | 16810 | 2.23 | 14600 | 23940 | 9340 | 1.63 |
|  | Prophylactic Management of Mastitis in dairy cows by using antiseptic solution in teat cups | Jersey and HF | 10 | 10 | 13 | 17 | 14 | 12 | 15 | 14800 | 24120 | 9320 | 1.62 | 14260 | 20520 | 6260 | 1.43 |
|  | Assessment of GRAND supplement in cross bred cows | Jersey Cross | 10 | 10 | 12 | 18 | 14 | 13 | 20 | 14520 | 27720 | 13200 | 1.90 | 13520 | 22500 | 8980 | 1.66 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Poultry |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rabbitry |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pigerry |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sheep and goat |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Duckery |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

\*\* BCR= GROSS RETURN/GROSS COST

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

5. B.3. Fisheries: Nil.

5. B.4. Other enterprises: Nil.

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

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.No.** | **Activity** | **No. of activities organised** | **Number of participants** | **Remarks** |
| 1 | Field days | 3 | 25 | - |
| 2 | Farmers Training | 2 | 32 | - |
| 3 | Media coverage |  |  | - |
| 4 | Training for extension functionaries |  |  | - |
| 5 | Others (Field visit) | 25 | 40 | - |
| 6 | Others (Demonstration) | 2 | 20 | - |
| 7 | Others (Fest, Carnival) |  |  | - |
| 8 | Others (FAS) | 5 | 5 | - |
| 9 | Others (Please specify) | - | - | - |

**PART VI – DEMONSTRATIONS ON CROP HYBRIDS:** Nil.

**PART VII. TRAINING**

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

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | |
| **General** | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| **Crop Production** |  |  |  |  |  |  |  |  |  |  |
| Weed Management |  |  |  |  |  |  |  |  |  |  |
| Resource Conservation Technologies |  |  |  |  |  |  |  |  |  |  |
| Cropping Systems |  |  |  |  |  |  |  |  |  |  |
| Crop Diversification |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming |  |  |  |  |  |  |  |  |  |  |
| Micro Irrigation/Irrigation |  |  |  |  |  |  |  |  |  |  |
| Seed production |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Integrated Crop Management |  |  |  |  |  |  |  |  |  |  |
| Soil and Water Conservation |  |  |  |  |  |  |  |  |  |  |
| Integrated Nutrient Management |  |  |  |  |  |  |  |  |  |  |
| Production of organic inputs |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| Others (Organic farming in vegetable) | 1 | 11 | 31 | 42 | 0 | 0 | 0 | 11 | 31 | 42 |
| Others (IPDM in Banana) | 2 | 62 | 4 | 66 | 0 | 0 | 0 | 62 | 4 | 66 |
| Others (IPDM in vegetable) | 1 | 80 | 19 | 99 | 14 | 20 | 34 | 94 | 39 | 133 |
| **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 (Specify) |  |  |  |  |  |  |  |  |  |  |
| **b) Fruits** |  |  |  |  |  |  |  |  |  |  |
| Training and Pruning |  |  |  |  |  |  |  |  |  |  |
| Layout and Management of Orchards |  |  |  |  |  |  |  |  |  |  |
| Cultivation of Fruit |  |  |  |  |  |  |  |  |  |  |
| Management of young plants/orchards |  |  |  |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  |  |  |  |  |  |  |  |  |
| Export potential fruits |  |  |  |  |  |  |  |  |  |  |
| Micro irrigation systems of orchards |  |  |  |  |  |  |  |  |  |  |
| Plant propagation techniques | 1 | 26 | 4 | 30 | 0 | 0 | 0 | 26 | 4 | 30 |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **c) Ornamental Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery Management |  |  |  |  |  |  |  |  |  |  |
| Management of potted plants |  |  |  |  |  |  |  |  |  |  |
| Export potential of ornamental plants |  |  |  |  |  |  |  |  |  |  |
| Propagation techniques of Ornamental Plants |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **d) Plantation crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **e) Tuber crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **f) Spices** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **g) Medicinal and Aromatic Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Production and management technology |  |  |  |  |  |  |  |  |  |  |
| Post harvest technology and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Soil Health and Fertility Management** |  |  |  |  |  |  |  |  |  |  |
| Soil fertility management |  |  |  |  |  |  |  |  |  |  |
| Integrated water management |  |  |  |  |  |  |  |  |  |  |
| Integrated nutrient management |  |  |  |  |  |  |  |  |  |  |
| Production and use of organic inputs |  |  |  |  |  |  |  |  |  |  |
| Management of Problematic soils |  |  |  |  |  |  |  |  |  |  |
| Micro nutrient deficiency in crops |  |  |  |  |  |  |  |  |  |  |
| Nutrient use efficiency |  |  |  |  |  |  |  |  |  |  |
| Balanced use of fertilizers |  |  |  |  |  |  |  |  |  |  |
| Soil and water testing |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Livestock Production and Management** |  |  |  |  |  |  |  |  |  |  |
| Dairy Management | 3 | 30 | 3 | 33 | 0 | 0 | 0 | 30 | 3 | 33 |
| Poultry Management | 2 | 27 | 0 | 27 | 0 | 0 | 0 | 27 | 0 | 27 |
| Piggery Management |  |  |  |  |  |  |  |  |  |  |
| Rabbit Management |  |  |  |  |  |  |  |  |  |  |
| Animal Nutrition Management |  |  |  |  |  |  |  |  |  |  |
| Animal Disease Management |  |  |  |  |  |  |  |  |  |  |
| Feed and Fodder technology |  |  |  |  |  |  |  |  |  |  |
| Production of quality animal products |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Home Science/Women empowerment** |  |  |  |  |  |  |  |  |  |  |
| Household food security by kitchen gardening and nutrition gardening |  |  |  |  |  |  |  |  |  |  |
| Design and development of low/minimum cost diet |  |  |  |  |  |  |  |  |  |  |
| Designing and development for high nutrient efficiency diet |  |  |  |  |  |  |  |  |  |  |
| Minimization of nutrient loss in processing |  |  |  |  |  |  |  |  |  |  |
| Processing and cooking |  |  |  |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  |  |  |  |  |  |  |  |  |
| Storage loss minimization techniques |  |  |  |  |  |  |  |  |  |  |
| Value addition | 3 | 8 | 35 | 43 | 0 | 0 | 0 | 8 | 35 | 43 |
| Women empowerment |  |  |  |  |  |  |  |  |  |  |
| Location specific drudgery production |  |  |  |  |  |  |  |  |  |  |
| Rural Crafts | 4 | 0 | 55 | 55 | 0 | 0 | 0 | 0 | 55 | 55 |
| Women and child care |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| Others (Processing and Packaging of Mushroom) | 1 | 6 | 4 | 10 | 0 | 0 | 0 | 6 | 4 | 10 |
| **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 | 2 | 130 | 29 | 159 | 0 | 0 | 0 | 130 | 29 | 159 |
| Bio-control of pests and diseases |  |  |  |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Fisheries** |  |  |  |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing |  |  |  |  |  |  |  |  |  |  |
| Composite fish culture |  |  |  |  |  |  |  |  |  |  |
| Hatchery management and culture of freshwater prawn |  |  |  |  |  |  |  |  |  |  |
| Breeding and culture of ornamental fishes |  |  |  |  |  |  |  |  |  |  |
| Portable plastic carp hatchery |  |  |  |  |  |  |  |  |  |  |
| Pen culture of fish and prawn |  |  |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  |  |  |  |  |  |
| Edible oyster farming |  |  |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  |  |  |  |  |  |
| Fish processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Production of Inputs at site** |  |  |  |  |  |  |  |  |  |  |
| Seed Production |  |  |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  |  |  |  |  |  |
| Bio-agents production |  |  |  |  |  |  |  |  |  |  |
| Bio-pesticides production |  |  |  |  |  |  |  |  |  |  |
| Bio-fertilizer production |  |  |  |  |  |  |  |  |  |  |
| Vermi-compost production |  |  |  |  |  |  |  |  |  |  |
| Organic manures production |  |  |  |  |  |  |  |  |  |  |
| Production of fry and fingerlings |  |  |  |  |  |  |  |  |  |  |
| Production of Bee-colonies and wax sheets |  |  |  |  |  |  |  |  |  |  |
| Small tools and implements |  |  |  |  |  |  |  |  |  |  |
| Production of livestock feed and fodder |  |  |  |  |  |  |  |  |  |  |
| Production of Fish feed |  |  |  |  |  |  |  |  |  |  |
| Mushroom production | 4 | 49 | 41 | 90 | 4 | 1 | 5 | 53 | 42 | 95 |
| Apiculture |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Capacity Building and Group Dynamics** |  |  |  |  |  |  |  |  |  |  |
| Leadership development |  |  |  |  |  |  |  |  |  |  |
| Group dynamics |  |  |  |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  |  |  |  |  |  |  |  |  |
| Mobilization of social capital |  |  |  |  |  |  |  |  |  |  |
| Entrepreneurial development of farmers/youths |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Agro-forestry** |  |  |  |  |  |  |  |  |  |  |
| Production technologies |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming Systems |  |  |  |  |  |  |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **TOTAL** | **24** | **429** | **194** | **612** | **18** | **21** | **39** | **436** | **215** | **651** |

**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 | 1 | 30 | 0 | 30 | 0 | 0 | 0 | 30 | 0 | 30 |
| 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 (Specify) |  |  |  |  |  |  |  |  |  |  |
| Others(Organic vegetable cultivation ) | 5 | 211 | 89 | 300 | 30 | 10 | 40 | 241 | 99 | 340 |
| Others (ICM in Vegetables) | 2 | 107 | 46 | 153 | 0 | 0 | 0 | 107 | 46 | 153 |
| Others(IPDM in Vegetables) | 7 | 165 | 159 | 324 | 0 | 16 | 16 | 165 | 175 | 340 |
| Others(IPDM in Cool Season Vegetables) | 1 | 20 | 5 | 25 | 0 | 0 | 0 | 20 | 5 | 25 |
| **b) Fruits** |  |  |  |  |  |  |  |  |  |  |
| Training and Pruning |  |  |  |  |  |  |  |  |  |  |
| Layout and Management of Orchards |  |  |  |  |  |  |  |  |  |  |
| Cultivation of Fruit |  |  |  |  |  |  |  |  |  |  |
| Management of young plants/orchards |  |  |  |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  |  |  |  |  |  |  |  |  |
| Export potential fruits |  |  |  |  |  |  |  |  |  |  |
| Micro irrigation systems of orchards |  |  |  |  |  |  |  |  |  |  |
| Plant propagation techniques |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **c) Ornamental Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery Management |  |  |  |  |  |  |  |  |  |  |
| Management of potted plants |  |  |  |  |  |  |  |  |  |  |
| Export potential of ornamental plants |  |  |  |  |  |  |  |  |  |  |
| Propagation techniques of Ornamental Plants |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **d) Plantation crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **e) Tuber crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **f) Spices** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **g) Medicinal and Aromatic Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Production and management technology |  |  |  |  |  |  |  |  |  |  |
| Post harvest technology and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Soil Health and Fertility Management** |  |  |  |  |  |  |  |  |  |  |
| Soil fertility management | 5 | 140 | 101 | 241 | 0 | 0 | 0 | 140 | 101 | 241 |
| Integrated water management |  |  |  |  |  |  |  |  |  |  |
| Integrated nutrient management | 2 | 117 | 25 | 142 | 0 | 0 | 0 | 117 | 25 | 142 |
| Production and use of organic inputs |  |  |  |  |  |  |  |  |  |  |
| Management of Problematic soils |  |  |  |  |  |  |  |  |  |  |
| Micro nutrient deficiency in crops | 1 | 12 | 3 | 15 | 0 | 0 | 0 | 12 | 3 | 15 |
| Nutrient use efficiency | 1 | 150 | 50 | 200 | 0 | 0 | 0 | 150 | 50 | 200 |
| Balanced use of fertilizers |  |  |  |  |  |  |  |  |  |  |
| Soil and water testing | 1 | 32 | 5 | 37 | 0 | 0 | 0 | 32 | 5 | 37 |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| Others (Soil Conservation) | 1 | 120 | 65 | 185 | 0 | 0 | 0 | 120 | 65 | 185 |
| **Livestock Production and Management** |  |  |  |  |  |  |  |  |  |  |
| Dairy Management | 3 | 174 | 129 | 303 | 0 | 0 | 0 | 174 | 129 | 303 |
| Poultry Management | 3 | 38 | 72 | 110 | 0 | 0 | 0 | 38 | 72 | 110 |
| Piggery Management |  |  |  |  |  |  |  |  |  |  |
| Rabbit Management |  |  |  |  |  |  |  |  |  |  |
| Animal Nutrition Management |  |  |  |  |  |  |  |  |  |  |
| Animal Disease Management |  |  |  |  |  |  |  |  |  |  |
| Feed and Fodder technology |  |  |  |  |  |  |  |  |  |  |
| Production of quality animal products |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| Others (Goat Management) | 3 | 80 | 85 | 165 | 0 | 0 | 0 | 80 | 85 | 165 |
| **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 | 1 | 0 | 17 | 17 | 0 | 0 | 0 | 0 | 17 | 17 |
| Value addition | 3 | 10 | 60 | 70 | 3 | 6 | 9 | 13 | 66 | 79 |
| Women empowerment |  |  |  |  |  |  |  |  |  |  |
| Location specific drudgery production |  |  |  |  |  |  |  |  |  |  |
| Rural Crafts | 2 | 0 | 26 | 26 | 0 | 10 | 10 | 0 | 36 | 36 |
| Women and child care |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| Others (Processing & popularization of Jack fruit) | 6 | 0 | 1147 | 1147 | 0 | 0 | 0 | 0 | 1147 | 1147 |
| **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 | 8 | 232 | 93 | 325 | 40 | 12 | 52 | 272 | 105 | 377 |
| Bio-control of pests and diseases |  |  |  |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| Others (ICM in Black Pepper) | 1 | 43 | 32 | 75 | 0 | 0 | 0 | 43 | 32 | 75 |
| **Fisheries** |  |  |  |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing |  |  |  |  |  |  |  |  |  |  |
| Composite fish culture |  |  |  |  |  |  |  |  |  |  |
| Hatchery management and culture of freshwater prawn |  |  |  |  |  |  |  |  |  |  |
| Breeding and culture of ornamental fishes |  |  |  |  |  |  |  |  |  |  |
| Portable plastic carp hatchery |  |  |  |  |  |  |  |  |  |  |
| Pen culture of fish and prawn |  |  |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  |  |  |  |  |  |
| Edible oyster farming |  |  |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  |  |  |  |  |  |
| Fish processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Production of Inputs at site** |  |  |  |  |  |  |  |  |  |  |
| Seed Production |  |  |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  |  |  |  |  |  |
| Bio-agents production |  |  |  |  |  |  |  |  |  |  |
| Bio-pesticides production |  |  |  |  |  |  |  |  |  |  |
| Bio-fertilizer production |  |  |  |  |  |  |  |  |  |  |
| Vermi-compost production |  |  |  |  |  |  |  |  |  |  |
| Organic manures production |  |  |  |  |  |  |  |  |  |  |
| Production of fry and fingerlings |  |  |  |  |  |  |  |  |  |  |
| Production of Bee-colonies and wax sheets |  |  |  |  |  |  |  |  |  |  |
| Small tools and implements |  |  |  |  |  |  |  |  |  |  |
| Production of livestock feed and fodder |  |  |  |  |  |  |  |  |  |  |
| Production of Fish feed |  |  |  |  |  |  |  |  |  |  |
| Mushroom production | 1 | 94 | 163 | 257 | 0 | 0 | 0 | 94 | 163 | 257 |
| Apiculture | 2 | 45 | 0 | 45 | 45 | 0 | 45 | 90 | 0 | 90 |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Capacity Building and Group Dynamics** |  |  |  |  |  |  |  |  |  |  |
| Leadership development |  |  |  |  |  |  |  |  |  |  |
| Group dynamics |  |  |  |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  |  |  |  |  |  |  |  |  |
| Mobilization of social capital |  |  |  |  |  |  |  |  |  |  |
| Entrepreneurial development of farmers/youths |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Agro-forestry** |  |  |  |  |  |  |  |  |  |  |
| Production technologies |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming Systems |  |  |  |  |  |  |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **TOTAL** | **59** | **1790** | **2372** | **4162** | **118** | **54** | **172** | **1938** | **2426** | **4364** |

**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 | 3 | 0 | | 15 | | 15 | 0 | | 0 | | 0 | | 0 | | 15 | | 15 | |
| 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** | **3** | **0** | | **15** | | **15** | **0** | | **0** | | **0** | | **0** | | **15** | | **15** | |

**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 | 1 | 8 | | 7 | | 15 | 0 | 0 | 0 | 8 | 7 | 15 |
| Small scale processing |  |  | |  | |  |  |  |  |  |  |  |
| Post Harvest Technology | 1 | 2 | | 28 | | 30 | 0 | 0 | 0 | 2 | 28 | 30 |
| Tailoring and Stitching |  |  | |  | |  |  |  |  |  |  |  |
| Rural Crafts | 7 | 0 | | 127 | | 127 | 0 | 192 | 192 | 0 | 319 | 319 |
| 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) |  |  | |  | |  |  |  |  |  |  |  |
| Any other (Commercial vegetable cultivation and marketing) | 1 | 32 | | 17 | | 49 | 0 | 0 | 0 | 32 | 17 | 49 |
| **TOTAL** | **10** | **42** | | **179** | | **221** | **0** | **192** | **192** | **42** | **371** | **413** |

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

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

7.G. Sponsored training programmes conducted

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No.** | **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | |
| **General** | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| **1** | **Crop production and management** |  |  |  |  |  |  |  |  |  |  |
| 1.a. | Increasing production and productivity of crops |  |  |  |  |  |  |  |  |  |  |
| 1.b. | Commercial production of vegetables |  |  |  |  |  |  |  |  |  |  |
| 1.c. | Integrated Pest and Disease Management | 1 | 25 | 10 | 35 | 0 | 0 | 0 | 25 | 10 | 35 |
| **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 (Banana cultivation)** |  |  |  |  |  |  |  |  |  |  |
| **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. | Capacity Building and Group Dynamics |  |  |  |  |  |  |  |  |  |  |
| 12.b. | Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
|  | **Total** | **1** | **25** | **10** | **35** | **0** | **0** | **0** | **25** | **10** | **35** |

**Details of sponsoring agencies involved**

1. Coffee Board

2. Dept. of Agriculture

3. ATMA

4. District Industries Centre (DIC), Idukki

5. Kudumbasree, Idukki

6. NSS College, Rajakumary

7. GVHSS, Rajakumary

8. MBVHSS, Senapathy

9. NHRDF

10. RAWE

**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 (Nutrient Management in Different Crops) | 1 | 0 | 9 | 9 | 0 | 0 | 0 | 0 | 9 | 9 |
| 1.g. | Others (RAWE) | 1 | 0 | 9 | 9 | 0 | 0 | 0 | 0 | 9 | 9 |
| 1.h. | Others (O J T) | 2 | 44 | 30 | 74 | 0 | 0 | 0 | 44 | 30 | 74 |
| **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 | 2 | 0 | 11 | 11 | 0 | 105 | 105 | 0 | 116 | 116 |
| 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** | **6** | **44** | **59** | **103** | **0** | **105** | **105** | **44** | **164** | **208** |

**PART VIII – EXTENSION ACTIVITIES**

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

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nature of Extension Programme** | **No. of Programmes** | **No. of Participants (General)** | | | **No. of Participants**  **SC / ST** | | | **No. of extension personnel** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| Field Day | 3 | 19 | 1 | 20 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kisan Mela | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kisan Ghosthi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Exhibition | 1 | 402 | 270 | 672 | 111 | 92 | 203 | 56 | 64 | 120 |
| Film Show | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Method Demonstrations | 5 | 25 | 2 | 27 | 0 | 0 | 0 | 0 | 0 | 0 |
| Farmers Seminar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Workshop (Network workshop of KVKs) | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 6 |
| Group meetings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lectures delivered as resource persons | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Newspaper coverage | 9 | - | - | - | - | - | - | - | - | - |
| Radio talks | 3 | - | - | - | - | - | - | - | - | - |
| TV talks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Popular articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Extension Literature | 4 | - | - | - | - | - | - | - | - | - |
| Advisory Services | 254 | 202 | 67 | 269 | 0 | 0 | 0 | 5 | 3 | 8 |
| Scientific visit to farmers field | 37 | 108 | 11 | 119 | 0 | 0 | 0 | 0 | 0 | 0 |
| Farmers visit to KVK | 269 | 1003 | 335 | 1338 | 0 | 0 | 0 | 2 | 3 | 5 |
| Diagnostic visits | 46 | 48 | 1 | 49 | 0 | 0 | 0 | 1 | 2 | 3 |
| Exposure visits | 1 | 0 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ex-trainees Sammelan | 1 | 0 | 12 | 12 | 0 | 0 | 0 | 0 | 0 | 0 |
| Soil health Camp | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Animal Health Camp | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Agri mobile clinic | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Soil test campaigns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Farm Science Club Conveners meet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Self Help Group Conveners meetings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mahila Mandals Conveners meetings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Celebration of important days (World environment day) | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Celebration of important days (World food day) | 1 | 90 | 98 | 188 | 0 | 0 | 0 | 9 | 4 | 13 |
| Any Other (Technology week celebration) | 5 | 549 | 180 | 729 | 0 | 0 | 0 | 30 | 16 | 46 |
| Any Other (PPV & FRA) | 1 | 178 | 10 | 188 | 0 | 0 | 0 | 0 | 0 | 0 |
| Any Other (FFS - IPDM in Cardamom) | 1 | 0 | 29 | 29 | 0 | 0 | 0 | 0 | 4 | 4 |
| Any Other (FFS in cowpea) | 1 | 25 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 |
| Any Other (Swachh bharath) | 1 | - | - | - | - | - | - | - | - | - |
| Any Other (Specify) | - | - | - | - | - | - | - | - | - | - |
| **Total** | **641** | **2649** | **1025** | **3674** | **111** | **92** | **203** | **107** | **98** | **205** |

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

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

# 9.B. Production of planting materials 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 |  |  |  |  |  |  |
| Spices | Black pepper | Panniyoor-1 | - | 884 | 8840 | 79 |
|  |  | Panniyoor-4 | - | 120 | 1440 | 46 |
|  |  | Panniyoor-5 | - | 331 | 3972 | 50 |
|  |  | Panniyoor-7 | - | 756 | 9072 | 76 |
|  |  | Chengannoor | - | 1965 | 19650 | 115 |
|  |  | Karimunda | - | 940 | 9400 | 39 |
|  |  | Kottanadan | - | 259 | 2590 | 27 |
|  |  | Malabar excel | - | 166 | 1992 | 45 |
|  |  | Pournami | - | 20 | 240 | 1 |
|  |  | IISR Shakthi | - | 416 | 4992 | 41 |
|  |  | IISR Thevam | - | 40 | 480 | 16 |
|  |  | Sreekara | - | 12 | 144 | 1 |
|  |  | Subhakara | - | 134 | 1608 | 6 |
|  |  | Thekken | - | 176 | 2112 | 5 |
|  |  | Grimunda | - | 651 | 7812 | 42 |
|  |  | Arimunda | - | 20 | 240 | 1 |
| Tuber |  |  |  |  |  |  |
| Fodder crop saplings |  |  |  |  |  |  |
| Forest Species |  |  |  |  |  |  |
| Others(specify) |  |  |  |  |  |  |
| **Total** |  |  |  | **16789** | **74584** | **886** |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Bio Products** | **Name of the bio-product** | **Quantity**  **Kg** | **Value (Rs.)** | **Number of**  **farmers to**  **whom provided** |
| Bio Fertilizers |  |  |  |  |
| Bio-pesticide | EPN | 49000 nos. | 49000.00 | 548 |
|  | Pheromone trap | 951 nos. | 175935.00 | 896 |
|  | Metarhizium | 4 litres | 400.00 | 4 |
| Bio-fungicide | Pseudomonas | 2271.50 litres | 227150.00 | 712 |
|  | Trichoderma | 1163 litres | 116300.00 | 286 |
| Bio Agents | Mushroom spawn | 1418.25 kg | 170190.00 | 158 |
| Others (Homecare product) | Detergent powder | 80 kg | 4000.00 | 85 |
| Others (Homecare product) | Liquid soap | 75 L | 1875.00 | 65 |
| Others (specify) |  |  |  |  |
| **Total** |  |  | **7,44,850.00** | **2754** |

# 9.D. Production of livestock materials

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Particulars of Live stock | **Name of the breed** | **Number** | **Value (Rs.)** | **Number of farmers to whom provided** |
| **Dairy animals** |  |  |  |  |
| Cows |  |  |  |  |
| Buffaloes |  |  |  |  |
| Calves |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |
| **Poultry** |  |  |  |  |
| Broilers |  |  |  |  |
| Layers | Austrawhite & Gramasree | 9 | 1575 | 5 |
| Duals (broiler and layer) |  |  |  |  |
| Japanese Quail |  |  |  |  |
| Turkey | Broad Breasted Large White | 32 | 6275 | 18 |
| Emu |  |  |  |  |
| Ducks |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |
| **Piggery** |  |  |  |  |
| Piglet |  |  |  |  |
| Others (Pl.specify) |  |  |  |  |
| **Fisheries** |  |  |  |  |
| Fingerlings |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |
| **Total** |  | **41** | **7850** | **23** |

**PART X – PUBLICATION, SUCCESS STORY, SWTL, TECHNOLOGY WEEK AND**

**DROUGHT MITIGATION**

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

1. KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.)

Six month Interval & 1000 copies distributed

(B) Literature developed/published

|  |  |  |  |
| --- | --- | --- | --- |
| **Item** | **Title** | **Authors name** | **Number** |
| Research papers | - | - | - |
| Technical reports | - | - | - |
| News letters | - | - | 1000 |
| Technical bulletins | ICM in strawberry | Mr. Sudhakar Soundarajan | 1000 |
|  | Calendar Operations for Cardamom | Mr. Sudhakar Soundarajan | 2000 |
| Popular articles | - | - | - |
| Extension literature | Oyster Mushroom Cultivation | Dr. Benjamin Mathew & Dr. Binu John Sam | 200 |
| Strawberry Cultivation | Dr. Benjamin Mathew | 200 |
| Pest and Disease Management of Strawberry | Dr. Benjamin Mathew | 200 |
| Health and Food Security through Nutritious Food | Ms. Jayisy Joseph | 200 |
| Others (Pl. specify) | - | - | - |
| **TOTAL** |  |  | **4800** |

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

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

**1. Title of the success stories :** ***Skill development enterprise for Rural youth***

**Details of success stories** :

***1.Background***

A group of 55 tribal school drop-outs is an example how rural youth can effectively utilize their talents, which would help to lead towards personality development and to reduce poverty. The objective of this group is to mainstream scheduled tribes girl children who have been pushed out. With this objective, the academic orientation is not sufficient and it was realized that vocational and life –skill based training is essential. Following this, in collaboration with KVK Rural craft section, we are engaged in vocational skill development training as well as supportive education for the children in adivasi colonies. To livelihood and starvation issues in these colonies are severe. Hence, the plan is to train adivasi girl children and start a production unit for fabric designing and Jewellery making.

***2.Intervention process***

* To assess their educational needs and to provide essential training.
* To enhance their life-skills by extending life-skill education.
* Skill development vocational training .
* Motivation to start an enterprise.
* Technical guidance for starting the unit.
* Details about availability of raw materials.
* Advisory services.
* Follow-up visit.
* Technical back up in running the unit as when required.

***3.Intervention Technology***

* To create an environment where women can seek knowledge and information and there by empower them to play positive role in their own development and development of society .
* To enhance the self-image and self- confidence of women and thereby enabling them to recognize their contribution to the economy as producers and workers, reinforcing their need for participating in educational programmes.
* To provide women and adolescent girls with the necessary support structures and an informal learning environment to create opportunities for education.

***4.Impact Horizontal Spread***

This enterprise aimed at empowering 100 rural youth in tribal areas of Idukki district by providing skill development training to make them self-sufficiency and self-reliant. This enterprise will enable women deprived, poverty sticken, working as domestic servants, single parent and widows are being given opportunity to undergo free training and in turn they earn and live on their own. The entire family will be benefited, will support the beneficiary to establish small scale units.

**5.Impact Economic Gains**

They earn an average Income per month is Rs.10000/-

**6.Impact on Employment Generation**

This programme will empower women for their families well being and for their sustainable living, every batch of women / youth- girls will in turn benefit by this programme and will take this as their profession and train other women community and develop their standard of living. Self-employment is the main source of income. So they are engaged more in self- employed manufacturing and trade activities compared to others.

**2. Title of the success stories :** ***Skill development enterprise for Rural youth***

**Details of success stories** :

***1.Background***

***Mrs. Prathibha***, Pulickal, Pethotty, in Idukki district, is a +2 passed unemployed lady is an example how woman can effectively utilize their talents and leisure time for income generation .She has attended 6 months long vocational training on different topics such as Fabric designing, Jewellery Making, Toys Making, Quilling Art and Home care product preparations in our KVK under Rural Craft discipline. The topics that impressed her was the Fabric designing, Jewellery making, and soft toys making . Motivated from the training , she started a designing unit and learn to make jewellery, fabric designing and soft toys making to meet the modern trends of marketing. She has taken bulk orders from fancy stores, textiles and local markets. She has purchased the required raw materials in bulk and has employed a woman to work along with her .she does the main and finishing touches to herself and the rest of the work is done by the woman working with her .she purchases the raw materials in bulk at a cheaper rate and the work place is her-own house. Therefore, the profit she gains is comparatively higher.

***2.Intervention process***

* 6 months vocational training.
* Motivation to start an enterprise.
* Technical guidance for starting the unit.
* Details about availability of raw materials given.
* Advisory services.
* Follow- up visits.
* Technical back up in running the unit as when required.

***3.Intervention Technology***

To provide skill development vocational training to make her self-sufficient and self-reliant.

***4.Impact Horizontal Spread***

This enterprise will provide skill development for the women dwellers in identified area , families will be benefited directly and creating a ray of hope for better source of livelihood , and live a sustainable life with self-sufficiency and self-reliance.

***5.Impact Economic Gains***

She earn an average profit per month is Rs. 15000/-

***6. Impact on Employment Generation***

Motivated from the above mentioned Mrs. Prathibha’s successful enterprise, around 10 rural women are going to start fabric designing and jewellery making on a commercial basis. In addition to this unit, they are planning to start a small fancy store with loan availing from nearby Co-operative bank for self-sufficiency and self employment. Also they generate employment opportunities for others.

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

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

**10.F. Indicate the specific training need analysis tools/methodology followed for**

- Identification of courses for farmers/farm women

- Rural Youth

- Inservice personnel

**10.G. Field activities**

i. Number of villages adopted : 13

ii. No. of farm families selected : 177

iii. No. of survey/PRA conducted : 1

**10.H. Activities of Soil and Water Testing Laboratory**

Status of establishment of Lab : Functioning.

1. Year of establishment : 2005-06

2. List of equipments purchased with amount :

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No | Name of the Equipment | Qty. | Cost |
| 1. | LPG Cylinder | 1 | 4600.00 |
| 2. | Water bath WDB-2 350’400’100mm 12 holes | 1 | 4815.00 |
| 3. | Machinery for Homogensing (khan shaker) Model LKS2 platform size 75cmx43cmx10cm | 1 | 20,880.00 |
| 4. | Rotary Shaker | 1 | 16,200.00 |
| 5. | Machinery for drying (Hot air oxen) with digital temperature control, size 455’455’455’ | 1 | 13,725.00 |
| 6. | Conductivity meter (PH meter Eutech 510) | 1 | 21,935.00 |
| 7. | Genesis 20 visible Spectrophotometer meter | 1 | 1,12,499.00 |
| 8. | CITIZEN Physical Balance Model CTL-600 | 1 | 8,991.00 |
| 9. | Micro processor based conductivity | 1 | 13,500.00 |
| 10. | Micro Processor Based Flame Photometer with N, K & Ca FILTERS & Compressor | 1 | 45,000.00 |
| 11. | Electronic Automatic KEL  PLUS Micro processor  Based Twelve Place Micro Block Digestion System | 1 | 97,043.00 |
| 12. | Electronic Balance  Model: CP 2245  Srl.No.18606016 | 1 | 1,00,000.00 |
| 13. | Hot plate | 1 | 5,400.00 |
| Total | | 12 | 4,64,588.00 |

Details of samples analyzed so far since establishment of SWTL:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages | Amount realized (Rs.) |
| Soil Samples | 1685 | 1007 | 109 | 84250.00 |
| Water Samples | 17 | 15 | 13 | 850.00 |
| Plant samples | 0 | 0 | 0 | 0.00 |
| Manure samples | 4 | 3 | 1 | 200.00 |
| Others (soil test campaign) | 300 | 300 | 3 | 90000.00 |
| Total | 2006 | 1325 | 126 | 1,75,300.00 |

Details of samples analyzed during the 2014-15 :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages | Amount realized (Rs.) |
| Soil Samples | 411 | 274 | 86 | 20550.00 |
| Water Samples | 1 | 1 | 1 | 50.00 |
| Plant samples | 0 | 0 | 0 | 0.00 |
| Manure samples | 0 | 0 | 0 | 0.00 |
| Others (specify) | 0 | 0 | 0 | 0.00 |
| Total | 412 | 275 | 87 | 20,600.00 |

**10.I. Technology Week celebration during 2014-15 Yes/No, If Yes**

Period of observing Technology Week : 24/11/2014 to 28/11/2014

Total number of farmers visited : 783

Total number of agencies involved : 8

Number of demonstrations visited by the farmers within KVK campus : 11

Other Details

| **Types of Activities** | **No. of**  **Activities** | **Number of**  **Farmers** | **Related crop/livestock technology** |
| --- | --- | --- | --- |
| Gosthies |  |  |  |
| Lectures organized | 15 | 615 |  |
| Exhibition | 11 | 783 |  |
| Film show |  |  |  |
| Fair |  |  |  |
| Farm Visit | 4 | 610 | Pepper, Cardamom, Vegetables, Ornamental plants |
| Diagnostic Practical’s |  |  |  |
| Supply of Literature (No.) | 800 |  |  |
| Supply of Seed (q) |  |  |  |
| Supply of Planting materials (No.) | 150 | 35 | Black pepper |
| Bio Product supply (Kg) | 372 | 310 | Cardamom, Black pepper & Vegetables |
| Bio Fertilizers (q) |  |  |  |
| Supply of fingerlings |  |  |  |
| Supply of Livestock specimen (No.) |  |  |  |
| Total number of farmers visited the technology week |  | 783 |  |

**10. J. Interventions on drought mitigation (if the KVK included in this special programme)**

A. Introduction of alternate crops/varieties: Nil.

B. Major area coverage under alternate crops/varieties: Nil.

C. Farmers-scientists interaction on livestock management: Nil.

|  |  |  |  |
| --- | --- | --- | --- |
| **State** | **Livestock components** | **Number of interactions** | **No. of participants** |
|  |  |  |  |
|  |  |  |  |
| **Total** |  |  |  |

D. Animal health camps organized : Nil.

E. Seed distribution in drought hit states: Nil.

F. Large scale adoption of resource conservation technologies: Nil.

G. Awareness campaign: Nil.

**PART XI. IMPACT**

**11.A. Impact of KVK activities (Not to be 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)** |
| Ecodon for rodents & Wild boar bio control | 25 | 90 | 13500 | 24000 |
| IIHR BANANA SPECIAL | 35 | 65 | 5,000 | 7,500 |
| EPN | 200 | 50 | 4,500 | 22,500 |
| Bio-management of Banana Pseudostem weevil | 50 | 80 | 1,200/ha | 3,100 |

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

**11.B. Cases of large scale adoption:** Nil.

**11.C. Details of impact analysis of KVK activities carried out during the reporting period:** Nil.

**PART XII - LINKAGES**

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

|  |  |
| --- | --- |
| **Name of organization** | **Nature of linkage** |
| ATMA | Demonstration and Trainings |
| State Planning Board | Demonstration and Scouting and documentation of farm innovations |

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

**12.B. List Externally Funded Projects / schemes undertaken by the KVK and operational now, which have been financed by State Govt./Other Agencies**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of the scheme** | **Role of KVK** | **Date/ Month of initiation** | **Funding agency** | **Amount (Rs.)** |
| Development of pest surveillance and crop advisory project in Idukki District. | Created awareness and advised to the farmers to keep the pest situation below ETL level. | 10/05/2014 | Kerala State Planning Board | 6,00,000.00 |

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

a) Is ATMA implemented in your district: **Yes**

If yes, role of KVK in preparation of SREP of the district?

We are actively participated in the final formulation of SREP preparation of the Idukki District. We discussed the technologies that can take up in ATMA demonstrations. We also explained the areas which can cover under various trainings programmes.

**Coordination activities between KVK and ATMA during 2014-15**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Programme** | **Particulars** | **No. of programmes attended by KVK staff** | **No. of programmes Organized by KVK** | **Other remarks (if any)** |
| **01** | **Meetings** | Monthly Technology Advisory | 10 | 2 | **-** |
| **02** | **Research projects** |  |  |  |  |
|  |  |  |  |  |  |
| **03** | **Training programmes** | Various trainings | 32 | - | **-** |
|  |  |  |  |  |  |
| **04** | **Demonstrations** |  |  |  |  |
|  |  |  |  |  |  |
| **05** | **Extension Programmes** |  |  |  |  |
|  | Kisan Mela |  |  |  |  |
|  | Technology Week | 1 | 5 | 1 |  |
|  | Exposure visit |  |  |  |  |
|  | Exhibition |  |  |  |  |
|  | Soil health camps |  |  |  |  |
|  | Animal Health Campaigns |  |  |  |  |
|  | Others (Pl. specify) |  |  |  |  |
| **06** | **Publications** |  |  |  |  |
|  | Video Films |  |  |  |  |
|  | Books |  |  |  |  |
|  | Extension Literature |  |  |  |  |
|  | Pamphlets |  |  |  |  |
|  | Others (Pl. specify) |  |  |  |  |
| **07** | **Other Activities** (Pl. specify) |  |  |  |  |
|  | Watershed approach |  |  |  |  |
|  | Integrated Farm Development |  |  |  |  |
|  | Agri-preneurs development |  |  |  |  |
|  |  |  |  |  |  |

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

**12.E. Nature of linkage with National Fisheries Development Board:** Nil.

**12.F. Details of linkage with RKVY:** Nil.

**12.G. Kisan Mobile Advisory Services:** Nil.

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

**13.A. 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. | Mushroom production unit | 2010 | 50 m2 | Oyster mushroom Var. Florida | Mushroom | 0.347 q | 4337.00 | 8675.00 | Revolving Fund |
| 2. | Mushroom Spawn production unit | 2009 | 10 m2 | Oyster mushroom Var. CO2 & Florida | Spawn | 5673 packets | 85095.00 | 170190.00 | Funded by SHM |
| 3. | Mist Chamber | 2009 | 96 m2 | Panniyoor-1, 4, 5, 6 & 7 Sreekara  Subhakara  Panchami  IISR Thevam  IISR Shakthi  Excel  Kottanadan  Karimunda  Chengannoor  Thekken  Girimunda  Arimundi | Pepper vines | 6890 rooted cuttings | 20670.00 | 74584.00 | Funded by SHM |
| 4. | Rain Shelter | 2009 | 50 m2 | - | - | - | - | - | Funded by SHM (Infrastructure damaged by heavy wind & rain and needs major repair) |

**13.B. Performance of instructional farm (Crops) including seed production:** Nil.

**13.C. 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. | Pseudomonas | 2271.50 litres | 90860.00 | 1,36,290.00 | - |
| 2. | Trichoderma | 1163 litres | 58150.00 | 58150.00 | - |
| 3. | EPN | 49000 nos. | 5000.00 | 49000.00 | - |
| 4. | Metarhizium | 4 litres | 100.00 | 400.00 | - |
| 5. | Pheromone trap | 951 nos. | 66570.00 | 109365.00 | - |

**13.D. 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 | Poultry | Gramasree, Austrawhite & Sasso variety | Egg | 20 / bird / month | 310 | 420 | These varieties are well adapted in high ranges |

**13.E. Utilization of hostel facilities:** NA.

**13.F. Database management**

|  |  |  |
| --- | --- | --- |
| **S. No** | **Database target** | **Database created** |
| 1. | Farmers database | Database for 2013-14 & 2014-15. |

**13.G. Details on Rain Water Harvesting Structure and micro-irrigation system:** Nil.

**PART XIV - FINANCIAL PERFORMANCE**

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Bank account** | **Name of the bank** | **Location** | **Branch code** | **Account Name** | **Account Number** | **MICR Number** | **IFSC Number** |
| Revolving Fund Account | State Bank of Travancore | Rajakumary | 70453 | Bapooji Krishi Vigyan Kendra (Rev Fund) | 67155078042 | 685009806 | SBTR0000453 |
| Main Grant Account | State Bank of Travancore | Rajakumary | 70453 | Bapooji Sevak Samaj Krishi Vigyan Kendra | 57060836995 | 685009806 | SBTR0000453 |

**14.B. Utilization of KVK funds during the year 2014-15 (Rs. in lakh)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.**  **No.** | **Particulars** | **Sanctioned** | **Released** | **Expenditure** |
| **A. Recurring Contingencies** | | | | |
| 1 | **Pay & Allowances** | 83.10 | 83.10 | 83.13436 |
| 2 | **Traveling allowances** | 1.30 | 1.30 | 1.31373 |
| 3 | **Contingencies** | | | |
| *A* | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 0.55 | 0.55 | 1.73409 |
| *B* | POL, repair of vehicles, tractor and equipments | 0.55 | 0.55 | 1.84311 |
| *C* | Meals/refreshment for trainees (ceiling up to Rs.40/day/trainee be maintained) | 0.20 | 0.20 | 0.29492 |
| *D* | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | 0.20 | 0.20 | 0.46351 |
| *E* | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | 1.70 | 1.70 | 1.74242 |
| *F* | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | 0.30 | 0.30 | 0.42486 |
| *G* | Training of extension functionaries | 0.10 | 0.10 | 0.10000 |
| *H* | Maintenance of buildings | 0.10 | 0.10 | 0.10146 |
| *I* | Establishment of Soil, Plant & Water Testing Laboratory | 0.00 | 0.00 | 0.00 |
| *J* | Library | 0.00 | 0.00 | 0.00 |
| *K* | Extension Activities | 0.10 | 0.10 | 0.42385 |
| *L* | Farmers Field School | 0.10 | 0.10 | 0.01000 |
| *M* | Integrated Farming System (IFS) | 0.10 | 0.10 | 0.10330 |
| **TOTAL (A)** | | **88.40** | **88.40** | **91.68961** |
| **B. Non-Recurring Contingencies** | |  |  |  |
| 1 | **Works** | 0.00 | 0.00 | 0.00 |
| 2 | **Equipments including SWTL & Furniture** | 0.00 | 0.00 | 0.00 |
| 3 | **Vehicle** (Four wheeler/Two wheeler, please specify) | 0.00 | 0.00 | 0.00 |
| 4 | **Library** (Purchase of assets like books & journals) | 0.00 | 0.00 | 0.00 |
| **TOTAL (B)** | | **0.00** | **0.00** | **0.00** |
| **C. REVOLVING FUND** | | **0.00** | **0.00** | **19.87199** |
| **GRAND TOTAL (A+B+C)** | | **88.40** | **88.40** | **111.56160** |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Year** | **Opening balance as on 1st April** | **Income during the year** | **Expenditure during the year** | **Net balance in hand as on 1st April of each year** |
| April 2012 to March 2013 | 4.11341 | 15.40938 | 12.65084 | 6.87195 |
| April 2013 to March 2014 | 6.87195 | 12.5319 | 15.51956 | 3.88429 |
| April 2014 to March 2015 | 3.88429 | 16.42118 | 19.72403 | 0.58144 |

**15. Details of HRD activities attended by KVK staff during 2014-15**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of the staff** | **Designation** | Title of the training programme | Institute where attended | Dates |
| Dr. S. Jayababu | Subject Matter Specialist (Animal Husbandry) | Participatory Impact Monitoring and Assessment | MANAGE, Hyderabad | 30/11/2014 to 07/12/2014 |
| Jayisy Joseph | Programme Assistant  (Home Science) | Frontier Home Science Technology for Knowledge and economic empowerment | UAS, Dharwad | 28/10/2014 to 30/10/2014 |
| Dr. Binu John Sam | Subject Matter Specialist (Horticulture) & Programme Coordinator i/c. | Advances in Production of Quality Planting Materials in Plantation Crops | ICAR - CPCRI, Kayamkulam | 18/11/2014 to 27/11/2014 |
| Tropical and Exotic Fruit Production | CARD KVK, Pathanamthitta | 07/08/2014 to 08/08/2014 |
| Technology Management in Agriculture | NAARM, Hyderabad | 09/06/2014 to 11/06/2014 |
| Network Workshop of KVKs in Kerala State on Family Farming | Kerala Agricultural University | 26/05/2014 to 28/05/2014 |
| Mr. Sudhakar Soundarajan | Subject Matter Specialist  (Plant Protection) | IPM in important crops of southern India with special reference to Karnataka, Kerala, Goa and Tamil Nadu | NCIPM-New Delhi & ZPD – Zone VIII, Bengaluru | 23/07/2014 to 25/07/2014 |
| Ms. Manju Jincy Varghese | Subject Matter Specialist  (Soil Science) | Integrated Farming System | Kerala Agricultural University | 28/10/2014 to 29/10/2014 |
| Dr. Benjamin Mathew | Subject Matter Specialist  (Agri. Extension) | Protected cultivation | UAS, Dharwad | 04/12/2014 to 24/12/2014 |
| Tropical and Exotic Fruit Production | CARD KVK, Pathanamthitta | 07/08/2014 to 08/08/2014 |

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

**SUMMARY FOR 2014-15**

# I. TECHNOLOGY ASSESSMENT

**Summary of technologies assessed under various crops**

|  |  |  |  |
| --- | --- | --- | --- |
| **Thematic areas** | **Crop** | **Name of the technology assessed** | **No. of trials** |
| Integrated Nutrient Management | Tapioca | Management practices for secondary and micronutrient disorders in tapioca | 5 |
|  |  |  |
| Varietal Evaluation | Black Pepper | Assessment of suitable Black Pepper Foot rot (Quick wilt) resistant variety for Idukki District | 5 |
|  |  |  |
| Integrated Pest Management |  |  |  |
|  |  |  |
| Integrated Crop Management | Black Pepper | Use of concrete poles as standards in Black Pepper | 3 |
|  |  |  |
| 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 | Mushroom | Assessment of different additives in oyster mushroom bed preparation for maximizing yield | 4 |
|  |  |  |
| **Total** | | | **17** |

**Summary of technologies assessed under livestock**

|  |  |  |  |
| --- | --- | --- | --- |
| **Thematic areas** | **Name of the livestock enterprise** | **Name of the technology assessed** | **No. of trials** |
| Disease Management | Poultry | Assessing the performance of Gramasree, Austrawhite and Sasso Variety under high range conditions | 10 |
| Evaluation of Breeds |  |  |  |
| Feed and Fodder management |  |  |  |
| Nutrition Management |  |  |  |
| Production and Management |  |  |  |
| Others (Pl. specify) |  |  |  |
| **Total** | | | **10** |

**Summary of technologies assessed under various enterprises:** Nil.

**Summary of technologies assessed under home science:** Nil.

# II. TECHNOLOGY REFINEMENT: Nil.

**III. FRONTLINE DEMONSTRATION**

**Crops**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop | Thematic area | Name of the technology demonstrated | No. of KVKs | No. of Farmer | Area  (ha) | Yield (q/ha) | | % change in yield | Other parameters | | \*Economics of demonstration (Rs./ha) | | | | \*Economics of check  (Rs./ha) | | | |
| Demons  ration | Check |  | Demonstration | Check | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
| Cereals |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Millets |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Oilseeds |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pulses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Vegetables** | Safe to eat vegetables | Ensuring nutritional security through family farming | 1 | 3 | 0.12 | 4.63 | 0 | 100 | 0 | 0 | 4167 | 12017 | 7850 | 2.88 | Not practiced |  |  | NA |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Flowers** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Ornamental** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Fruit** | INM | INM in Nendran | 1 | 10 | 1 | 288.5 | 227.3 | 26.92 | 0 | 0 | 200000 | 380000 | 180000 | 1.9 | 210000 | 300000 | 90000 | 1.42 |
|  | Productivity improvement of major crops. | Management of lodging / breaking of banana pseudostem nearing maturity | 1 | 5 | 1.0 | 296 | 185 | 60 | 0 | 20.2 | 151000 | 302095 | 151095 | 2.0 | 144050 | 168300 | 24250 | 1.17 |
| **Fibres like Cotton** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Spices and condiments** | **IPM** | Popularization of EPN for control of cardamom root grub. |  | **10** | **4** | **1350** | **912** | 48 | **83** | **57** | 205000.00 | 597500.00 | 392500.00 | 2.9 | 181000.00 | 382800.00 | 201800.00 | 2.11 |
| **IPM** | Management of shoot fly (*Formosina flavipes* ) in small cardamom |  | **10** | **1** | **1629** | **990** | 63 | **84** | **48** | 280000.00 | 753600.00 | 473600.00 | 2.6 | 218000.00 | 414200.00 | 196200 | 1.9 |
| INM | Soil test based fertilizer recommendation | 1 | 10 | 0.1 | 9.9 | 8.0 | 25 | 0 | 0 | 70000 | 250000 | 180000 | 3.5 | 75000 | 150000 | 75000 | 2.0 |
| Crop improvement | Management of berry drop | 1 | 10 | 0.2 | 2.6 | 2.1 | 23.81 | 0 | 0 | 103000 | 365000 | 354700 | 3.5 | 105000 | 265000 | 160000 | 2.5 |
| **Commercial crops** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Medicinal and aromatic** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Fodder** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Plantation** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Fibre** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Others (pl.specify)** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Others (Mushroom)** | Value addition | Packaging of mushrooms in tray packs with cling film cover | - | 10 | 10 | 0 | 0 | 0 | 0 | 0 | 23808 | 47413 | 23605 | 1.99 | 11970 | 18400 | 6430 | 1.53 |
|  | Productivity improvement of major crops. | Utilization of Spent Mushroom Compost (SMC) as a medium for vegetable production | 1 | 0 | 0 | 0 | 0 | 0 | Not done | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Others (Rodents and wild boar)** | Control of rodents and wild boar | Castor based herbal extract for control of rodents and wild boar | 1 | 10 | 1 | 1.56 | 0.9 | 25 | 0 | 0 | 12500 | 15000 | 2500 | 1.2 | 14000 | 12000 | 2000 | 0.85 |
|  | **Total** | |  |  |  |  | | | | | | | | | | | | |

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

\*\* BCR= GROSS RETURN/GROSS COST

Livestock

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Category | Thematic area | Name of the technology demonstrated | No. of KVKs | No. of Farmer | No.of units | Major parameters | | % change in major parameter | Other parameter | | \*Economics of demonstration (Rs.) | | | | \*Economics of check  (Rs.) | | | |
| Demons  ration | Check |  | Demons  ration | Check | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
| Dairy | Animal nutrition and production management | Popularization of mixed fodder system | - | 10 | 10 | 18 | 13 | 15 | 4% | 3% | 13610 | 30420 | 16810 | 2.23 | 14600 | 23940 | 9340 | 1.63 |
|  | Disease management | Prophylactic management of Mastitis in dairy animal by using antiseptic solution in teat cups | - | 10 | 10 | 17 | 13 | 15 | 4.55% | 3.5% | 14800 | 24120 | 9320 | 1.62 | 14260 | 20520 | 6260 | 1.43 |
|  | Nutrition management | Assessment of GRAND supplement in cross bred cows | - | 10 | 10 | 17 | 14 | 20 | 2.5% | 1% | 14520 | 27720 | 13200 | 1.90 | 13520 | 22500 | 8980 | 1.66 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Poultry |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Rabbitry** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pigerry** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Sheep and goat** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Duckery** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Others (pl.specify)** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Total** | |  |  |  |  | | | | | | | | | | | | |

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

\*\* BCR= GROSS RETURN/GROSS COST

Fisheries: Nil.

Other enterprises: Nil.

Women empowerment: Nil.

Farm implements and machinery: Nil.

**Other enterprises**: Nil.

**Demonstration details on crop hybrids**: Nil.

IV. Training Programme

**Training for 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 |  |  |  |  |  |  |  |  |  |  |
| Soil and Water Conservation |  |  |  |  |  |  |  |  |  |  |
| Integrated Nutrient Management |  |  |  |  |  |  |  |  |  |  |
| Production of organic inputs |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| Others (Organic farming in vegetable) | 1 | 11 | 31 | 42 | 0 | 0 | 0 | 11 | 31 | 42 |
| Others (IPDM in Banana) | 2 | 62 | 4 | 66 | 0 | 0 | 0 | 62 | 4 | 66 |
| Others (IPDM in vegetable) | 1 | 80 | 19 | 99 | 14 | 20 | 34 | 94 | 39 | 133 |
| **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 (Specify) |  |  |  |  |  |  |  |  |  |  |
| **b) Fruits** |  |  |  |  |  |  |  |  |  |  |
| Training and Pruning |  |  |  |  |  |  |  |  |  |  |
| Layout and Management of Orchards |  |  |  |  |  |  |  |  |  |  |
| Cultivation of Fruit |  |  |  |  |  |  |  |  |  |  |
| Management of young plants/orchards |  |  |  |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  |  |  |  |  |  |  |  |  |
| Export potential fruits |  |  |  |  |  |  |  |  |  |  |
| Micro irrigation systems of orchards |  |  |  |  |  |  |  |  |  |  |
| Plant propagation techniques | 1 | 26 | 4 | 30 | 0 | 0 | 0 | 26 | 4 | 30 |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **c) Ornamental Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery Management |  |  |  |  |  |  |  |  |  |  |
| Management of potted plants |  |  |  |  |  |  |  |  |  |  |
| Export potential of ornamental plants |  |  |  |  |  |  |  |  |  |  |
| Propagation techniques of Ornamental Plants |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **d) Plantation crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **e) Tuber crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **f) Spices** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **g) Medicinal and Aromatic Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Production and management technology |  |  |  |  |  |  |  |  |  |  |
| Post harvest technology and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Soil Health and Fertility Management** |  |  |  |  |  |  |  |  |  |  |
| Soil fertility management |  |  |  |  |  |  |  |  |  |  |
| Integrated water management |  |  |  |  |  |  |  |  |  |  |
| Integrated nutrient management |  |  |  |  |  |  |  |  |  |  |
| Production and use of organic inputs |  |  |  |  |  |  |  |  |  |  |
| Management of Problematic soils |  |  |  |  |  |  |  |  |  |  |
| Micro nutrient deficiency in crops |  |  |  |  |  |  |  |  |  |  |
| Nutrient use efficiency |  |  |  |  |  |  |  |  |  |  |
| Balanced use of fertilizers |  |  |  |  |  |  |  |  |  |  |
| Soil and water testing |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Livestock Production and Management** |  |  |  |  |  |  |  |  |  |  |
| Dairy Management | 3 | 30 | 3 | 33 | 0 | 0 | 0 | 30 | 3 | 33 |
| Poultry Management | 2 | 27 | 0 | 27 | 0 | 0 | 0 | 27 | 0 | 27 |
| Piggery Management |  |  |  |  |  |  |  |  |  |  |
| Rabbit Management |  |  |  |  |  |  |  |  |  |  |
| Animal Nutrition Management |  |  |  |  |  |  |  |  |  |  |
| Animal Disease Management |  |  |  |  |  |  |  |  |  |  |
| Feed and Fodder technology |  |  |  |  |  |  |  |  |  |  |
| Production of quality animal products |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Home Science/Women empowerment** |  |  |  |  |  |  |  |  |  |  |
| Household food security by kitchen gardening and nutrition gardening |  |  |  |  |  |  |  |  |  |  |
| Design and development of low/minimum cost diet |  |  |  |  |  |  |  |  |  |  |
| Designing and development for high nutrient efficiency diet |  |  |  |  |  |  |  |  |  |  |
| Minimization of nutrient loss in processing |  |  |  |  |  |  |  |  |  |  |
| Processing and cooking |  |  |  |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  |  |  |  |  |  |  |  |  |
| Storage loss minimization techniques |  |  |  |  |  |  |  |  |  |  |
| Value addition | 3 | 8 | 35 | 43 | 0 | 0 | 0 | 8 | 35 | 43 |
| Women empowerment |  |  |  |  |  |  |  |  |  |  |
| Location specific drudgery production |  |  |  |  |  |  |  |  |  |  |
| Rural Crafts | 4 | 0 | 55 | 55 | 0 | 0 | 0 | 0 | 55 | 55 |
| Women and child care |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| Others (Processing and Packaging of Mushroom) | 1 | 6 | 4 | 10 | 0 | 0 | 0 | 6 | 4 | 10 |
| **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 | 2 | 130 | 29 | 159 | 0 | 0 | 0 | 130 | 29 | 159 |
| Bio-control of pests and diseases |  |  |  |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Fisheries** |  |  |  |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing |  |  |  |  |  |  |  |  |  |  |
| Composite fish culture |  |  |  |  |  |  |  |  |  |  |
| Hatchery management and culture of freshwater prawn |  |  |  |  |  |  |  |  |  |  |
| Breeding and culture of ornamental fishes |  |  |  |  |  |  |  |  |  |  |
| Portable plastic carp hatchery |  |  |  |  |  |  |  |  |  |  |
| Pen culture of fish and prawn |  |  |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  |  |  |  |  |  |
| Edible oyster farming |  |  |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  |  |  |  |  |  |
| Fish processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Production of Inputs at site** |  |  |  |  |  |  |  |  |  |  |
| Seed Production |  |  |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  |  |  |  |  |  |
| Bio-agents production |  |  |  |  |  |  |  |  |  |  |
| Bio-pesticides production |  |  |  |  |  |  |  |  |  |  |
| Bio-fertilizer production |  |  |  |  |  |  |  |  |  |  |
| Vermi-compost production |  |  |  |  |  |  |  |  |  |  |
| Organic manures production |  |  |  |  |  |  |  |  |  |  |
| Production of fry and fingerlings |  |  |  |  |  |  |  |  |  |  |
| Production of Bee-colonies and wax sheets |  |  |  |  |  |  |  |  |  |  |
| Small tools and implements |  |  |  |  |  |  |  |  |  |  |
| Production of livestock feed and fodder |  |  |  |  |  |  |  |  |  |  |
| Production of Fish feed |  |  |  |  |  |  |  |  |  |  |
| Mushroom production | 4 | 49 | 41 | 90 | 4 | 1 | 5 | 53 | 42 | 95 |
| Apiculture |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Capacity Building and Group Dynamics** |  |  |  |  |  |  |  |  |  |  |
| Leadership development |  |  |  |  |  |  |  |  |  |  |
| Group dynamics |  |  |  |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  |  |  |  |  |  |  |  |  |
| Mobilization of social capital |  |  |  |  |  |  |  |  |  |  |
| Entrepreneurial development of farmers/youths |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Agro-forestry** |  |  |  |  |  |  |  |  |  |  |
| Production technologies |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming Systems |  |  |  |  |  |  |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **TOTAL** | **24** | **429** | **194** | **612** | **18** | **21** | **39** | **436** | **215** | **651** |

**Training for 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 | 1 | 30 | 0 | 30 | 0 | 0 | 0 | 30 | 0 | 30 |
| 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 (Specify) |  |  |  |  |  |  |  |  |  |  |
| Others(Organic vegetable cultivation ) | 5 | 211 | 89 | 300 | 30 | 10 | 40 | 241 | 99 | 340 |
| Others (ICM in Vegetables) | 2 | 107 | 46 | 153 | 0 | 0 | 0 | 107 | 46 | 153 |
| Others(IPDM in Vegetables) | 7 | 165 | 159 | 324 | 0 | 16 | 16 | 165 | 175 | 340 |
| Others(IPDM in Cool Season Vegetables) | 1 | 20 | 5 | 25 | 0 | 0 | 0 | 20 | 5 | 25 |
| **b) Fruits** |  |  |  |  |  |  |  |  |  |  |
| Training and Pruning |  |  |  |  |  |  |  |  |  |  |
| Layout and Management of Orchards |  |  |  |  |  |  |  |  |  |  |
| Cultivation of Fruit |  |  |  |  |  |  |  |  |  |  |
| Management of young plants/orchards |  |  |  |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  |  |  |  |  |  |  |  |  |
| Export potential fruits |  |  |  |  |  |  |  |  |  |  |
| Micro irrigation systems of orchards |  |  |  |  |  |  |  |  |  |  |
| Plant propagation techniques |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **c) Ornamental Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery Management |  |  |  |  |  |  |  |  |  |  |
| Management of potted plants |  |  |  |  |  |  |  |  |  |  |
| Export potential of ornamental plants |  |  |  |  |  |  |  |  |  |  |
| Propagation techniques of Ornamental Plants |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **d) Plantation crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **e) Tuber crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **f) Spices** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **g) Medicinal and Aromatic Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Production and management technology |  |  |  |  |  |  |  |  |  |  |
| Post harvest technology and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Soil Health and Fertility Management** |  |  |  |  |  |  |  |  |  |  |
| Soil fertility management | 5 | 140 | 101 | 241 | 0 | 0 | 0 | 140 | 101 | 241 |
| Integrated water management |  |  |  |  |  |  |  |  |  |  |
| Integrated nutrient management | 2 | 117 | 25 | 142 | 0 | 0 | 0 | 117 | 25 | 142 |
| Production and use of organic inputs |  |  |  |  |  |  |  |  |  |  |
| Management of Problematic soils |  |  |  |  |  |  |  |  |  |  |
| Micro nutrient deficiency in crops | 1 | 12 | 3 | 15 | 0 | 0 | 0 | 12 | 3 | 15 |
| Nutrient use efficiency | 1 | 150 | 50 | 200 | 0 | 0 | 0 | 150 | 50 | 200 |
| Balanced use of fertilizers |  |  |  |  |  |  |  |  |  |  |
| Soil and water testing | 1 | 32 | 5 | 37 | 0 | 0 | 0 | 32 | 5 | 37 |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| Others (Soil Conservation) | 1 | 120 | 65 | 185 | 0 | 0 | 0 | 120 | 65 | 185 |
| **Livestock Production and Management** |  |  |  |  |  |  |  |  |  |  |
| Dairy Management | 3 | 174 | 129 | 303 | 0 | 0 | 0 | 174 | 129 | 303 |
| Poultry Management | 3 | 38 | 72 | 110 | 0 | 0 | 0 | 38 | 72 | 110 |
| Piggery Management |  |  |  |  |  |  |  |  |  |  |
| Rabbit Management |  |  |  |  |  |  |  |  |  |  |
| Animal Nutrition Management |  |  |  |  |  |  |  |  |  |  |
| Animal Disease Management |  |  |  |  |  |  |  |  |  |  |
| Feed and Fodder technology |  |  |  |  |  |  |  |  |  |  |
| Production of quality animal products |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| Others (Goat Management) | 3 | 80 | 85 | 165 | 0 | 0 | 0 | 80 | 85 | 165 |
| **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 | 1 | 0 | 17 | 17 | 0 | 0 | 0 | 0 | 17 | 17 |
| Value addition | 3 | 10 | 60 | 70 | 3 | 6 | 9 | 13 | 66 | 79 |
| Women empowerment |  |  |  |  |  |  |  |  |  |  |
| Location specific drudgery production |  |  |  |  |  |  |  |  |  |  |
| Rural Crafts | 2 | 0 | 26 | 26 | 0 | 10 | 10 | 0 | 36 | 36 |
| Women and child care |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| Others (Processing & popularization of Jack fruit) | 6 | 0 | 1147 | 1147 | 0 | 0 | 0 | 0 | 1147 | 1147 |
| **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 | 8 | 232 | 93 | 325 | 40 | 12 | 52 | 272 | 105 | 377 |
| Bio-control of pests and diseases |  |  |  |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| Others (ICM in Black Pepper) | 1 | 43 | 32 | 75 | 0 | 0 | 0 | 43 | 32 | 75 |
| **Fisheries** |  |  |  |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing |  |  |  |  |  |  |  |  |  |  |
| Composite fish culture |  |  |  |  |  |  |  |  |  |  |
| Hatchery management and culture of freshwater prawn |  |  |  |  |  |  |  |  |  |  |
| Breeding and culture of ornamental fishes |  |  |  |  |  |  |  |  |  |  |
| Portable plastic carp hatchery |  |  |  |  |  |  |  |  |  |  |
| Pen culture of fish and prawn |  |  |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  |  |  |  |  |  |
| Edible oyster farming |  |  |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  |  |  |  |  |  |
| Fish processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Production of Inputs at site** |  |  |  |  |  |  |  |  |  |  |
| Seed Production |  |  |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  |  |  |  |  |  |
| Bio-agents production |  |  |  |  |  |  |  |  |  |  |
| Bio-pesticides production |  |  |  |  |  |  |  |  |  |  |
| Bio-fertilizer production |  |  |  |  |  |  |  |  |  |  |
| Vermi-compost production |  |  |  |  |  |  |  |  |  |  |
| Organic manures production |  |  |  |  |  |  |  |  |  |  |
| Production of fry and fingerlings |  |  |  |  |  |  |  |  |  |  |
| Production of Bee-colonies and wax sheets |  |  |  |  |  |  |  |  |  |  |
| Small tools and implements |  |  |  |  |  |  |  |  |  |  |
| Production of livestock feed and fodder |  |  |  |  |  |  |  |  |  |  |
| Production of Fish feed |  |  |  |  |  |  |  |  |  |  |
| Mushroom production | 1 | 94 | 163 | 257 | 0 | 0 | 0 | 94 | 163 | 257 |
| Apiculture | 2 | 45 | 0 | 45 | 45 | 0 | 45 | 90 | 0 | 90 |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Capacity Building and Group Dynamics** |  |  |  |  |  |  |  |  |  |  |
| Leadership development |  |  |  |  |  |  |  |  |  |  |
| Group dynamics |  |  |  |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  |  |  |  |  |  |  |  |  |
| Mobilization of social capital |  |  |  |  |  |  |  |  |  |  |
| Entrepreneurial development of farmers/youths |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Agro-forestry** |  |  |  |  |  |  |  |  |  |  |
| Production technologies |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming Systems |  |  |  |  |  |  |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **TOTAL** | **59** | **1790** | **2372** | **4162** | **118** | **54** | **172** | **1938** | **2426** | **4364** |

**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 | 3 | 0 | | 15 | | 15 | 0 | | 0 | | 0 | | 0 | | 15 | | 15 | |
| 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** | **3** | **0** | | **15** | | **15** | **0** | | **0** | | **0** | | **0** | | **15** | | **15** | |

**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 | 1 | 8 | | 7 | | 15 | | 0 | | 0 | | 0 | | 8 | | 7 | | 15 |
| Small scale processing |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Post Harvest Technology | 1 | 2 | | 28 | | 30 | 0 | | 0 | | 0 | | 2 | | 28 | | 30 | |
| Tailoring and Stitching |  |  | |  | |  |  | |  | |  | |  | |  | |  | |
| Rural Crafts | 7 | 0 | | 127 | | 127 | 0 | | 192 | | 192 | | 0 | | 319 | | 319 | |
| 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) |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Any other (Commercial vegetable cultivation and marketing) | 1 | 32 | | 17 | | 49 | | 0 | | 0 | | 0 | | 32 | | 17 | | 49 |
| **TOTAL** | **10** | **42** | | **179** | | **221** | **0** | | **192** | | **192** | | **42** | | **371** | | **413** | |

**Training programmes for Extension Personnel including sponsored training programmes (on campus) :** Nil.

**Training programmes for Extension Personnel including sponsored training programmes (off campus):** Nil.

**Sponsored training programmes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No.** | **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | |
| **General** | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| **1** | **Crop production and management** |  |  |  |  |  |  |  |  |  |  |
| 1.a. | Increasing production and productivity of crops |  |  |  |  |  |  |  |  |  |  |
| 1.b. | Commercial production of vegetables |  |  |  |  |  |  |  |  |  |  |
| 1.c. | Integrated Pest and Disease Management | 1 | 25 | 10 | 35 | 0 | 0 | 0 | 25 | 10 | 35 |
| **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. | Capacity Building and Group Dynamics |  |  |  |  |  |  |  |  |  |  |
| 12.b. | Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
|  | **Total** | **1** | **25** | **10** | **35** | **0** | **0** | **0** | **25** | **10** | **35** |

**Details of Vocational Training Programmes carried out 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) |  |  |  |  |  |  |  |  |  |  |
| 1.g. | Others (Nutrient Management in Different Crops) | 1 | 0 | 9 | 9 | 0 | 0 | 0 | 0 | 9 | 9 |
| 1.h. | Others (RAWE) | 1 | 0 | 9 | 9 | 0 | 0 | 0 | 0 | 9 | 9 |
| 1.i. | Others (O.J.T.) | 2 | 44 | 30 | 74 | 0 | 0 | 0 | 44 | 30 | 74 |
| **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 | 2 | 0 | 11 | 11 | 0 | 105 | 105 | 0 | 116 | 116 |
| 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** | **6** | **44** | **59** | **103** | **0** | **105** | **105** | **44** | **164** | **208** |

V. Extension Programmes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activities** | **No. of programmes** | **No. of farmers** | **No. of Extension Personnel** | **TOTAL** |
| Advisory Services | 254 | 269 | 8 | 277 |
| Diagnostic visits | 46 | 49 | 3 | 52 |
| Field Day | 3 | 20 | 0 | 20 |
| Group discussions | 0 | 0 | 0 | 0 |
| Kisan Ghosthi | 0 | 0 | 0 | 0 |
| Film Show | 0 | 0 | 0 | 0 |
| Self -help groups | 0 | 0 | 0 | 0 |
| Kisan Mela | 0 | 0 | 0 | 0 |
| Exhibition | 1 | 875 | 120 | 995 |
| Scientists' visit to farmers field | 37 | 119 | 0 | 119 |
| Plant/animal health camps | 0 | 0 | 0 | 0 |
| Farm Science Club | 0 | 0 | 0 | 0 |
| Ex-trainees Sammelan | 1 | 12 | 0 | 12 |
| Farmers' seminar/workshop (Network workshop of KVKs) | 1 | 0 | 6 | 6 |
| Method Demonstrations | 5 | 27 | 0 | 27 |
| Celebration of important days (World food day) | 1 | 188 | 13 | 201 |
| Special day celebration (Environment day) | 1 | - | - | - |
| Exposure visits | 1 | 9 | 0 | 9 |
| Others (pl.specify) | - | - | - | - |
| **Total** | **351** | **1568** | **150** | **1718** |

Details of other extension programmes

|  |  |
| --- | --- |
| **Particulars** | **Number** |
| Electronic Media | 3 |
| Extension Literature | 800 |
| News Letter | 1000 |
| News paper coverage | 9 |
| Technical Articles | 2 |
| Technical Bulletins | 3000 |
| Technical Reports | 3 |
| Radio Talks | 3 |
| TV Talks | 0 |
| Animal health camps | 3 |
| Others (pl.specify) | - |
| **Total** | **4823** |

1. **PRODUCTION OF SEED/PLANTING MATERIAL**

**Production of seeds by the KVKs :** Nil.

# Production of planting materials 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 |  |  |  |  |  |  |
| Spices | Black pepper | Panniyoor-1 | - | 884 | 8840 | 79 |
|  |  | Panniyoor-4 | - | 120 | 1440 | 46 |
|  |  | Panniyoor-5 | - | 331 | 3972 | 50 |
|  |  | Panniyoor-7 | - | 756 | 9072 | 76 |
|  |  | Chengannoor | - | 1965 | 19650 | 115 |
|  |  | Karimunda | - | 940 | 9400 | 39 |
|  |  | Kottanadan | - | 259 | 2590 | 27 |
|  |  | Malabar excel | - | 166 | 1992 | 45 |
|  |  | Pournami | - | 20 | 240 | 1 |
|  |  | IISR Shakthi | - | 416 | 4992 | 41 |
|  |  | IISR Thevam | - | 40 | 480 | 16 |
|  |  | Sreekara | - | 12 | 144 | 1 |
|  |  | Subhakara | - | 134 | 1608 | 6 |
|  |  | Thekken | - | 176 | 2112 | 5 |
|  |  | Grimunda | - | 651 | 7812 | 42 |
|  |  | Arimunda | - | 20 | 240 | 1 |
| Tuber |  |  |  |  |  |  |
| Fodder crop saplings |  |  |  |  |  |  |
| Forest Species |  |  |  |  |  |  |
| Others(specify) |  |  |  |  |  |  |
| **Total** |  |  |  | **16789** | **74584** | **886** |

**Production of Bio-Products**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Bio Products** | **Name of the bio-product** | **Quantity** | **Value (Rs.)** | **No. of Farmers** |
| **Kg** |
| Bio Fertilizers |  |  |  |  |
| Bio-pesticide | EPN | 49000 nos. | 49000.00 | 548 |
|  | Pheromone trap | 951 nos. | 175935.00 | 896 |
|  | Metarhizium | 4 litres | 400.00 | 4 |
| Bio-fungicide | Pseudomonas | 2271.50 litres | 227150.00 | 712 |
|  | Trichoderma | 1163 litres | 116300.00 | 286 |
| Bio Agents | Mushroom spawn | 1418.25 kg | 170190.00 | 158 |
| Others (Homecare product) | Detergent powder | 80 kg | 4000.00 | 85 |
| Others (Homecare product) | Liquid soap | 75 L | 1875.00 | 65 |
| Others (specify) |  |  |  |  |
| **Total** |  |  | **7,44,850.00** | **2754** |

# Production of livestock and related enterprise materials

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Particulars of Live stock | **Name of the breed** | **Number** | **Value (Rs.)** | **No. of Farmers** |
| **Dairy animals** |  |  |  |  |
| Cows |  |  |  |  |
| Buffaloes |  |  |  |  |
| Calves |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |
| **Poultry** |  |  |  |  |
| Broilers |  |  |  |  |
| Layers | Austrawhite & Gramasree | 9 | 1575 | 5 |
| Duals (broiler and layer) |  |  |  |  |
| Japanese Quail |  |  |  |  |
| Turkey | Broad Breasted Large White | 32 | 6275 | 18 |
| Emu |  |  |  |  |
| Ducks |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |
| **Piggery** |  |  |  |  |
| Piglet |  |  |  |  |
| Others (Pl.specify) |  |  |  |  |
| **Fisheries** |  |  |  |  |
| Fingerlings |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |
| **Total** |  | **41** | **7850** | **23** |

**VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS 2014-15**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Samples | **No. of Samples** | **No. of Farmers** | **No. of Villages** | **Amount realized (Rs.)** |
| Soil | 411 | 274 | 86 | 20550.00 |
| Water | 1 | 1 | 1 | 50.00 |
| Plant | 0 | 0 | 0 | 0.00 |
| Manure | 0 | 0 | 0 | 0.00 |
| Others (Specify) | 0 | 0 | 0 | 0.00 |
| **Total** | 412 | 275 | 87 | 20,600.00 |

VIII. SCIENTIFIC ADVISORY COMMITTEE

|  |
| --- |
| **Number of SACs conducted: One** |
|  |

**IX. NEWSLETTER**

|  |
| --- |
| **Number of issues of newsletter published: 1000** |
|  |

**X. RESEARCH PAPER PUBLISHED**

|  |
| --- |
| **Number of research paper published** |
| Nil. |

**XI. DETAILS ON RAIN WATER HARVESTING STRUCTURE AND MICRO-IRRIGATION SYSTEM**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activities conducted** | | | | |
| **No. of Training programmes** | **No. of Demonstration s** | **No. of plant materials produced** | **Visit by farmers**  **(No.)** | **Visit by officials**  **(No.)** |
|  |  |  |  |  |

-------------XXXXXXX-------------