**ANNUAL REPORT 2010-11**

**(FOR THE PERIOD APRIL 2010 TO MARCH 2011)**

KRISHI VIGYAN KENDRA (IDUKKI)**PART I - GENERAL INFORMATION ABOUT THE KVK**

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Address | Telephone | | E mail | Web Address |
| Office | FAX |
| Bapooji Krishi Vigyan Kendra, Santhanpara P.O., Idukki (Dt.),  Pin-685619, Kerala. | 04868 – 247541,  247715. | 04868 – 247715 | 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  +919446826019 | NIL | chairmankvkidukki@rediffmail.com | www.kvkidukki.org |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Telephone / Contact | | |
|  | Residence | Mobile | Email |
| Dr. S. Jayababu, Programme Coordinator i/c | 04868-247546 | 9446223170 | kvksanthanpara@rediffmail.com |

1.4. Year of sanction: 1994.

**1.5. Staff Position (as 31st March 2011)**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 | - | - | - | 12000-375-18000 | 12000 | - | - | - |
| 2 | SMS | Dr. S. Jayababu | Subject Matter Specialist | M | Animal Science | B.V. Sc. in Animal Husbandry | 8000-275-13500 | 8000 | 19-06-1995 | Permanent | Others |
| 3 | SMS | Manju Jincy Varghese | Subject Matter Specialist | F | Soil Science | M.Sc. Agriculture (Soil Science) | 8000-275-13500 | 8000 | 10-01-2011 | Permanent | Others |
| 4 | SMS | Dr. Benjamin Mathew | Subject Matter Specialist | M | Agri. Extension | Ph.D. Horticulture | 8000-275-13500 | 8000 | 17-01-2011 | Permanent | Others |
| 5 | SMS | Pramod Chacko | Subject Matter Specialist | M | Agronomy | M.Sc. Agriculture (Agronomy) | 8000-275-13500 | 8000 | 17-01-2011 | Permanent | Others |
| 6 | SMS | Binu John Sam | Subject Matter Specialist | M | Horticulture | M.Sc. Horticulture | 8000-275-13500 | 8000 | 17-01-2011 | Permanent | Others |
| 7 | SMS | Sudhakar Soundarajan | Subject Matter Specialist | M | Plant Protection | M.Sc. Agricultural Entomology | 8000-275-13500 | 8000 | 27-01-2011 | Permanent | OBC |
| 8 | Programme Assistant (Lab Tech.)/T-4 | Jayisy Joseph | Programme Assistant | F | Home Science | M. Sc. Home Science (Extension for Rural Development) | 5500-175-9000 | 7950 | 20-06-1995 | Permanent | Others |
| 9 | Programme Assistant (Computer)/ T-4 | Biju Narayanan | Programme Assistant | M | Computer Application | M.C.A., PGDCA | 5500-175-9000 | 5850 | 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) | 5500-175-9000 | 7775 | 05-06-1995 | Permanent | Others |
| 11 | Assistant | Shaji. K. Kakkattu | Assistant | M | - | - | 5500-175-9000 | 7775 | 05-06-1995 | Permanent | Others |
| 12 | Jr. Stenographer | Daisy Daniel | Jr. Stenographer | F | - | - | 3050-80-4590 | 4110 | 05-06-1995 | Permanent | Others |
| 13 | Driver | P. Nandagopal | Driver | M | - | - | 3050-80-4590 | 4110 | 05-06-1995 | Permanent | OBC |
| 14 | Auxiliary Staff | K.T. Mathew | Peon/ Messenger | M | - | - | 2550-55-3200 | 3260 | 05-06-1995 | Permanent | Others |
| 15 | Supporting staff-1 | K.O. Jose | F.F. Attendant | M | - | - | 2550-55-3200 | 3260 | 05-06-1995 | Permanent | Others |
| 16 | Supporting staff-2 | P. Sabu | F.F. Attendant | M | - | - | 2550-55-3200 | 3260 | 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**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S.  No. | Name of building | Source of  funding | Stage | | | | | |
| Complete | | | Incomplete | | |
| Completion  Date | Plinth area (Sq. m) | Expenditure (Rs.) | Starting Date | Plinth area  (Sq. m) | Status of construction |
| 1. | Administrative Building | ICAR | 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 | 15-06-2009 | 50 | 7,000.00 | - | - | - |
|  | 2. Mushroom unit | Grama Panchayath, 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 | - | - | - | - | - | - |
| 6 | Rain Water harvesting system | NA | - | - | - | - | - | - |
| 7 | Threshing floor | NA | - | - | - | - | - | - |
| 8 | Farm godown | NA | - | - | - | - | - | - |

B) Vehicles

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type of vehicle | Year of purchase | Cost (Rs.) | Total kms. Run | Present status |
| Tempo Trax | July - 1995 | 3,06,676.34 | 135329 | Very poor condition and needs immediate replacement. |
| Motor Bike (Suzuki Shogun) | January - 1995 | 37,972.78 | 8743 | In running condition with poor fuel efficiency. |
| Honda Aviator | March - 2009 | 50,000.00 | 3443 | Good condition. |

**C) Equipments & AV aids**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of the equipment** | **Year of purchase** | **Cost (Rs.)** | **Present status** |
| **A.V. aids (Specify)** | | | |
| Television | 1995 | 20,894.00 | Bad |
| GE OHP | 1996 | 7,100.00 | Good |
| 2ET Slide Projector | 1996 | 11,556.00 | Bad |
| Sharp Video Player | 1996 | 10,000.00 | Bad |
| Pentax SLR Camera | 1996 | 13,599.15 | Bad |
| Public Address System | 2003 | 26,755.00 | Good |
| Power Generator | 2003 | 32,492.00 | Good |
| LCD Projector (EPSON – EBW8) | 2010 | 55,186.00 | Good |
| Liberty Show Juno 5 x 7 (MW) Screen | 2010 | 5,885.00 | Good |
| **Soil Science Lab Equipments (Specify)** | | | |
| KEMI HOT PLATE with Energy Regulator | 2006 | 5,400.00 | Bad |
| Electronic Balance | 2006 | 1,00,000.00 | Good |
| 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 | Bad and required 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 required 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 | Bad |
| FACIT Typewriter (English) | 1995 | 9429.00 | Bad |
| Stencil Duplicator | 1995 | 13,700.00 | Bad |
| Computer with Printer | 2003 | 49,750.00 | Bad |
| Photostat Machine | 2003 | 80,000.00 | Good |
| Brush Cutter | 2009 | 23,726.00 | Good |
| Fax Machine | 2009 | 15,000.00 | Good |
| Laptop Computer (DELL Studio 14 N) | 2010 | 37,150.00 | Good |
| Inkjet Printer (Epson TX 111 AIO) | 2010 | 1,779.00 | Good |

|  |  |
| --- | --- |
| **Sl.**  **No** | **Date planned for conducting SAC meeting during 2011-12** |
| 01 | 13/07/2011 |
| 02 | 11/01/2012 |

**1.8. Details SAC meeting conducted in 2010-11**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No. | Date | Number of Participants | No. of absentees | Salient Recommendations | Action taken |
| 1. | 28/07/2010 | 21 | 20 | 1. **Suggestion by Dr. S. Prabhukumar, Zonal Project Director**, **Zonal Project Directorate, Zone- VIII, ICAR**, MRS, HA Farm Post, Hebbal, Bangalore – 560 024: -  * Presentations should be done in Malayalam. * Next SAC Meeting is fixed on 28th January 2011. * KVK should bring out an Organic Package for Pepper encompassing nutrient, pest and disease management aspects. * Action Taken Report should be presented with quantified data. * Photographs in presentation should correspond to the specific activities undertaken by the KVK and it should highlight the salient achievements of the activities. * KVK may approach National Horticulture Mission / Department of Agriculture for the purchase of Atomic Absorption Spectrometer for Soil Testing Laboratory. * SAC Members must be invited to FLD plots and other major activities of the KVK. * KVK must organize *Training on Precision Farming* inviting experts from TNAU, Coimbatore. * KVK can take up *Training on Banana Fibre Extraction* with a model unit at KVK. * Banana Nutrient Mix or other such technologies may be purchased from IIHR, Bangalore. * Footprints of farmers visiting KVK must be recorded. * Hatchery units for poultry birds must be established in KVK, before popularizing new varieties in poultry. Further spread of technology may be taken up through SHG’s. * Nandanam Beltsville Turkey from Poultry Research Station, Nandanam may be popularized under backyard management. * CO-4 variety of fodder must be popularized with low cost chaff cutter developed by Namakkal KVK among farmers. * Home Scientist must associate with OFT’s & FLD’s in Agriculture disciplines to find out nutritional aspects of various varieties etc. introduced. * Soil Health Card must be maintained along with soil analysis for farmers at KVK. * Up scaling of technologies should be done by KVK. * Commercial production of Pseudomonas and Trichoderma may be taken up.  1. **Suggestion by Sri. K. K. Chandran, Principal Agricultural Officer, Department of Agriculture**: -  * KVK should take up commercial production of Vermicompost. * Work may be initiated to identify suitable varieties for upland rice cultivation. * KVK may take up Technology Assessment and Refinement management of Locust problem. It can be supported by ATMA. * System Rice Intensification in Paddy using UMA variety may be taken up by KVK.  1. **Suggestion by Dr. S. Varadarajan, Scientist, Indian Cardamom Research Institute, Spices Board**, Myladumpara, Idukki: -  * Instead of FYM, more thrust may be taken up for composting while implementing OFT’s and FLD’s. * KVK may take up IPM Package developed by ICRI for demonstrations. * Bio-control agents like Metarhizium, EPN may be taken by KVK. Training for production and multiplication of bio-control agents can be arranged at ICRI for KVK Staff. OFT may also be initiated in this line. * Locust problem identified in localized pockets in different parts of the district. Presently it has not reached an alarming level by causing economic damage to crops. Metarhizium is a good bio-control measure against locust attack.  1. **Suggestion by Sri. G. S. Iyer, District Development Manager, NABARD**, Thodupuzha: -   Submit schemes for popularizing successful technologies identified by KVK for Idukki District. KVK may organize extension activities based on technologies with assistance from NABARD. NABARD offered assistance for documentation of success stories of KVK.   1. **Suggestion by Smt. Bindhu Chandran, Manager, Project Area, VFPCK**: -  * Farmer – Scientist interaction must be organized by KVK for dissemination of technologies identified by KVK. * Successful technologies related to Vegetables and Banana may be passed on to VFPCK. * Effective micro-organisms technology for Composting, Pest and Disease Management may be taken up by KVK. * More thrust may be given for vegetable cultivation. * Precision farming training may be combined with VFPCK.  1. **Suggestion by Dr. Rajeswari, Assistant Director, Animal Husbandry Department**: -  * In OFT for scientific rearing of heifer calves, feeding along with deworming medicines should be done through *pyrental palmoate* (Placental Transmission) for attaining early body weight. * Silage promotion should be given adequate thrust.  1. **Suggestion by Sri. K. M. Michael, President, Cardamom Growers Association**: -  * Production of bio-control agents like AM Fungi, Pseudomonas & Trichoderma should be improved. * KVK must take up micronutrient analysis for the benefit of farmers.  1. **Suggestion by Sri. K. K. Devassia, Cardamom Growers Association**: -  * Organic inputs must be certified for purity and quality by KVK and other line departments. * Dwarf variety of Banana must be identified and popularized by KVK.  1. **Suggestion by Sri. Baby Thevarkattu, Progressive Farmer**: -  * KVK may take up FLD on IPM & INM practices in Cardamom. * Studies on the effect of neutraceuticals in Cardamom may be taken up by KVK. * Dissemination of technologies identified by KVK should be given more thrust. * Bio-control production must be increased. | * Forthcoming SAC’s presentation will be done in Malayalam. * Preparation of organic package for pepper is in progress. * Training on Precision farming was conducted on 03/12/2010. * This year, we are conducting a FLD based on Banana Nutrient Mix, IIHR, Bangalore. * We are maintaining a Register of farmers visiting KVK. * We are maintaining the Soil Analysis Record of farmers. * This year, we are proposing FLD on low cost incubator for establishing hatchery unit. * We are going to propose a FLD on Nandanam Beltsville Turkey from Poultry Research Station, Nandanam, next year. * This year, we proposed a FLD on low cost chaff cutter, but not sanctioned. * Commercial production of Pseudomonas & Trichoderma has started in the KVK. * Production of vermicompost & sale of earthworms are doing in large scale. * Next year, we are planning to conduct a FLD on SRI in paddy using UMA variety. * Next year, we are planning to conduct a FLD on IPM Package developed from ICRI. * We are popularising the Metarhizium as a good bio-control measure against locust attack through our farmers training programmes & field visits. * This year, we are approaching NABARD for getting assistance for various activities. * We are maintaining a good rapport with VFPCK with dissemination of new technologies in vegetables & banana. * We are doing various trainings for silage promotions. |

**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 | Cool season vegetables |
| 6 | Dairying |
| 7 | Banana cropping |
| 8 | Rubber mono-crop |

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 | 33078 | 7827 | 237 |
| 2. | Pepper | 58290 | 16708 | 287 |
| 3. | Banana | 2705 | 23662 | 8748 |
| 4. | Rice | 2115 | 5494 | 2598 |
| 5. | Coconut | 17776 | 79 million nuts | 4444194 |
| 6. | Tapioca | 7706 | 255284 | 33128 |
| 7. | Coffee | 12680 | 7815 | 616 |
| 8. | Tea | 24412 | 36952 | 1514 |

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

2.5. Weather data

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Month | Rainfall (mm) | Temperature 0 C | | Relative Humidity (%) |
|  |  | Maximum | Minimum |  |
| April 2010 | 18.9(2) | 25.19 | 16.34 | 97.2 |
| May 2010 | 0 | 27.75 | 16.5 | 95.2 |
| June 2010 | 12.8(1) | 30.35 | 17.6 | 94.4 |
| July 2010 | 98.6(6) | 30.01 | 19.37 | 94.3 |
| August 2010 | 82(6) | 29.21 | 19.54 | 96.40 |
| September 2010 | 286.0(15) | 25.8 | 18.3 | 98.8 |
| October 2010 | 419(23) | 23.8 | 17.4 | 98.3 |
| November 2010 | 260.4(17) | 24.2 | 17.6 | 99.2 |
| December 2010 | 159.4(12) | 25.8 | 16.8 | 97.8 |
| January 2011 | - | 25.3 | 14.87 | 96.93 |
| February 2011 | 107.4(3) | 26.9 | 15.3 | 87.6 |
| March 2011 | 22.2(3) | 28.6 | 16.2 | 85 |

**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* | 143247 | Milk – 25.01 Lakh MT | - |
| *Indigenous* | 23431 | - | - |
| **Buffalo** | 4348 | - | - |
| **Sheep** | | | |
| Crossbred | - | - | - |
| *Indigenous* | 161 | - | - |
| **Goats** | 84790 | Meat – 80 T | - |
| **Pigs** | | | |
| *Crossbred* | 22914 | 41.00 T | - |
| *Indigenous* | - | - | - |
| **Rabbits** | 38367 | 6300 Kg | - |
| **Poultry** | | | |
| Hens | 413099 | 161.05 Billions | - |
| *Desi* | 5000 |
| *Improved* | - | - | - |
| Ducks | 11114 | 96000 | - |
| Turkey and others | 31486 | 14.00 (000) | - |

|  |  |  |  |
| --- | --- | --- | --- |
| **Category** | **Area** | Production | **Productivity** |
| Fish | More than 5 Lakhs | 598 MT | - |
| *Marine* | - | - | - |
| *Inland* | - | - | - |
| Prawn | - | - | - |
| Scampi | - | - | - |
| Shrimp | - | - | - |

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

* 1. District profile has been prepared and submitted Yes / No: No.

2.8 Details of Operational area / Villages

| Sl. No. | Taluk | Name of the block | Name of the village | How long the village is covered under operational area of the KVK (specify the years) | Major crops & enterprises | Major problem identified | Identified Thrust Areas |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | Udumbanchola | Nedumkandam, Kattappana | Anakkara,  Anavilasom,  Ayyappankoil,  Chakkupallom,  Chathurangappara,  Chinnakanal,  Kalkoonthal,  Kanthippara,  Karunapuram,  Kattappana,  Konnathady,  Pampadumpara,  Parathodu,  Pooppara,  Pottankadu (Bison Valley),  Rajakkad,  Rajakumary,  Santhanpara,  Thankamany,  Udumbanchola,  Upputhodu,  Vathikudy &  Vandanmedu | 1995 onwards | Cardamom, Pepper, Ginger, Banana, Vegetables,  Rice.  Dairy cattle, goat, quail & poultry. | 1) Unscientific crop management practices.  2) Use of local varieties of crops with poor yield potential.  3) Heavy pest & disease incidence in crops.  4) Infertility problem in dairy cows.  5) Diseases like Mastitis, Ecto and Endo parasite etc. in dairy cows.  6) Low productivity in poultry. | 1) Productivity improvement of major crops.  2) Introduction of high yielding improved crop varieties, livestock and poultry breeds.  3) Integrated Pest and Disease Management (IPDM) in major crops.  4) Scientific management of livestock & poultry.  5) Self-employment and Income generation of rural youth & women.  6) Value addition of farm produce. |
| 2 | Peermedu | Azhutha | Elappara,  Kokkayar,  Kumily,  Manjumala,  Mlappara,  Peerumedu,  Periyar,  Peruvanthanam,  Upputhara &  Vagamon | 1995 onwards | Tea,  Coffee,  Cardamom.  Dairy cattle, goat, poultry & piggery. | 1) Unscientific crop management.  2) Heavy pest & disease incidence in crops.  3) Infertility problem in dairy animals.  4) Mastitis.  5) Ecto and endo parasitic infestation. | 1) Productivity improvement of major crops.  2) IPDM in major crops.  3) Scientific management of livestock & poultry. |
| 3 | Devikulam | Devikulam, Adimali | Anaviratty,  Kannan Devan Hills,  Kanthalloor,  Keezhanthoor,  Kottakomboor,  Kunjithanny,  Mankulam,  Mannamkandam,  Marayoor,  Pallivasal,  Vattavada &  Vellathooval | 1995 onwards | Cardamom,  Pepper,  Tea,  Rice.  Dairy cattle, goat, poultry & piggery. | 1) Unscientific crop management practices.  2) Heavy pest & disease incidence in crops.  3 Mastitis and ecto & endo parasitic infestation.  4 Poor growth rate and body weight gain in dairy calves.  5 Lack of entrepreneurship among rural youth and women. | 1) Productivity improvement of major crops.  2) Integrated Pest and Disease Management (IPDM) in major crops.  3) Scientific management of livestock & poultry.  4) Self-employment and Income generation of rural youth & women. |
| 4 | Thodupuzha | Thodupuzha, Elamdesom & Idukki | Alakkodu,  Arakkulam,  Elappally,  Idukki,  Kanjikkuzhy,  Karikkodu,  Karimannoor,  Karimkulam,  Kodikkulam,  Kudayathoor,  Kumaramangalam,  Manakkad,  Muttom,  Neyyasserry,  Purappuzha,  Thodupuzha,  Udumbannoor,  Vannapuram &  Velliyamattam | 1995 onwards | Rubber,  Coffee,  Coconut,  Vegetables,  Tree spices,  Tapioca,  Rice.  Dairy cattle, goat, poultry, piggery & turkey. | 1) Unscientific crop management practices.  2) Lack of entrepreneurship among rural youth and women.  3) Mastitis and infertility problem in dairy animals. | 1) Productivity improvement of major crops.  2) Self-employment and Income generation of rural youth & women.  3) Scientific management of livestock & poultry. |

2.9 Priority thrust areas

|  |  |
| --- | --- |
| S. No. | Thrust area |
| 1. | Productivity improvement of major crops |
| 2. | Mechanization in paddy farming |
| 3. | Introduction of high yielding improved crop varieties, livestock and poultry breeds |
| 4. | Integrated Pest and Disease Management (IPDM) in major crops |
| 5. | Self-employment and Income generation of rural youth & women |
| 6. | Value addition of farm produce |
| 7. | Scientific management of livestock and poultry |
| 8. | Drudgery reduction. |

**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** |
| 6 | 6 | 39 | 34 | 8 | 8 | 95 | 118 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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** |
| 130 | 117 | 2000 | 1733 | 300 | 201 | 2500 | 1037 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Seed Production (Qtl.)** | | **Planting materials (Nos.)** | |
| **5** | | **6** | |
| **Target** | **Achievement** | **Target** | **Achievement** |
| 800 Packets | Vegetable seeds - 752 Packets | 2000 Nos. | 2185 Nos. |

|  |  |  |  |
| --- | --- | --- | --- |
| **Livestock, poultry strains and fingerlings (No.)** | | **Bio-products (Kg)** | |
| **7** | | **8** | |
| **Target** | **Achievement** | **Target** | **Achievement** |
| 100 | - | Mushroom spawn – 1327 packets | Mushroom spawn – 1327 packets |
|  |  | Pseudomonas – 351.63 Litre | Pseudomonas – 351.63 Litre |
|  |  | Trichoderma – 67 Litre | Trichoderma – 67 Litre |
|  |  | Earthworm – 50 Kg | Earthworm – 40 Kg |

**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.) / Other inputs** | **Supply of livestock (No.)** | **Supply of bio products** | |
|  |  |  |  |  |  |  |  |  |  |  |  |  | **No.** | **Kg** |
| 1 | Productivity improvement | cardamom | Huge pest/ disease infestation | - | ICM in cardamom | 2 | - | - | 4 | - | Neem cake -50 kg  Urea – 850 kg  Rajphos – 2100 kg  MOP – 1250 kg  CuSO4-30 kg  ZnSO4-25 kg  Borax-50 kg  Quick lime-30 kg | - | - | Trichoderma- 30 L |
| 2 | Productivity improvement | Pepper | Low yield | To assess the efficiency of consortium bio fertilizers in improving productivity of black pepper. | - | 1 | - | - | 5 | - | Neem cake-500 kg  Urea – 54 kg  Rajphos – 138 kg  MOP – 125 kg | - | - | Azospirillum-13 kg  Phosphobacterium -13 kg  VAM-55 kg  Farm yard manure-1630 kg |
| 3 | Improving the productivity of major crops. | Banana | Low yield & untapped yield potential | Nutrient Management of Nendran Banana under the agro-climatic conditions of High Ranges of Idukki | - | 3 | 2 | - | 6 | - | Urea – 102 kg  Rajphos – 166 kg  MOP – 146 kg  Lime – 50 kg | - | - | - |
| 4 | Mechanization | Paddy | Labour scarcity | - | Mechanized paddy farming | 2 | 2 | - | 5 | - | Urea – 750 kgs  Rajphos – 1050 kgs  MOP – 350 kgs | - | - | Pseudomonas-38.5 L |
| 5 | Nutrient Management | Low productivity | - | INM in paddy | 3 | 1 | - | 4 | - | Neem cake -200 kgs  Urea – 1000 kgs  Rajphos – 1250 kgs  MOP – 400 kgs  Lime – 77 kgs | - | - | Pseudomonas – 55.5 L |
| 6 | Increasing productivity | Sweet potato | Non-availability of high yielding varieties | - | Demonstration of Gouri variety sweet potato | 1 | 2 | - | 8 | - | 4000 Nos. | - | - | - |
| 7 | Drudgery reduction | Pepper | 1) Price fluctuation.  2) Traditional method of white pepper making is time consuming | - | Mechanized white pepper production | 2 | - | - | 18 | - | - | - | - | - |
| 8 | Increase in productivity | Turmeric | Non-availability of high yielding varieties of seed rhizomes | Assessing the suitability of turmeric varieties Pratibha, Sobha and Varna under high range conditions. | - | 2 | 1 | - | 4 | 31.6 kg Pratibha turmeric seed  60 kg Sobha turmeric seed.  150 kg Varna turmeric seed | - | - | - | - |
| 9 | IPDM | Bitter gourd | Unscientific crop management | - | Integrated management of yellowing in bitter gourd | 2 | - | - | 2 | - | Mancozeb - 3kg  Econeem plus – 8L  Imidachlorprid - 1L | - | - | Pseudomonas - 50L |
| 10 | Breeding improvement | Dairy cattle | Infertility problem | Synchronization of estrus in dairy cows | - | 5 | 2 | - | 3 | - | - | - | - | - |
| 11 | Production & improvement of poultry | Quail | Low egg production | Assessing the performance of Nandanam variety of quail under High Ranges of Idukki | - | 4 | 1 | - | 1 | - | - | 125 birds | - | - |
| 12 | Production & improvement of poultry | Poultry | Low egg production | Assessing the performance of Gramasree, Gramalakshmi & Rhodo white varieties under High Range condition | - | 4 | 2 | - | 1 | - | - | 150 birds | - | - |
| 13 | Disease management | Dairy cattle | Mastitis & low milk production | - | Prophylactic management of mastitis in dairy cows using antiseptic solution in teat cups | 5 | 1 | - | 3 | - | - | - | - | - |
| 14 | Disease management | Dairy calves | Ecto & endo parasitic infestation | - | Management of ecto & endo parasitic infestation in dairy calves | 3 | 2 | - | 1 | - | - | - | - | - |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S. No** | **Title of Technology** | **Source of technology** | **Crop/enterprise** | **No. of programmes conducted** | | | |
| **OFT** | **FLD** | **Training** | **Others (Specify)** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** |
| 1. | Effect of consortium bio fertilizers on the productivity of black pepper | KAU | Pepper | 1 | - | 1 | Field visits – 2  FAS - 3 |
| 2. | Mechanization in paddy farming | KAU | Rice | - | 1 | 4 | Field visits – 2  Demonstrations – 3 |
| 3. | INM in paddy | KAU | Rice |  | 1 | 4 | Field visits – 2  FAS - 2 |
| 4. | ICM in cardamom | KAU | Cardamom |  | 1 | 2 | Field visits – 2  FAS - 2 |
| 5. | Integrated management of yellowing in bitter gourd | KAU | Bittergourd | - | 1 | 2 | Field visits – 5  Demonstration - 5 |
| 6. | Demonstration of Gouri variety sweet potato | CTCRI | Sweet potato | 0 | 1 | 2 | FAS-8 |
| 7. | Mechanized white pepper production |  | Pepper | 0 | 1 | 2 | Demonstration-10, FAS-13 |
| 8. | Assessing the suitability of turmeric varieties Pratibha, Sobha and Varna under high range conditions | IISR & KAU | Turmeric | 1 | 0 | 1 | FAS-6 |
| 9. | Synchronization of estrus in dairy cows | TANUVAS | Dairy cattle | 1 | 0 | 7 | Field visit-3 |
| 10. | Assessing the performance of Nandanam variety of quail under High Ranges of Idukki | TANUVAS | Japanese quail | 1 | 0 | 5 | Field visit-1 |
| 11. | Assessing the performance of Gramasree, Gramalakshmi & Rhodo white varieties under High Range condition | KAU & TANUVAS | Poultry | 1 | 0 | 6 | Field visit-1 |
| 12. | Prophylactic management of mastitis in dairy cows using antiseptic solution in teat cups | KAU | Dairy cattle | 0 | 1 | 6 | Field visit-3 |
| 13. | Management of ecto & endo parasitic infestation in dairy calves | KAU | Dairy calves | 0 | 1 | 5 | 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** | |
| **S. No** | **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 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2. | 0 | 0 | 0 | 0 | 6 | 1 | 4 | 2 | 6 | 1 | 4 | 2 | 0 | 0 | 0 | 0 |
| 3. | 0 | 0 | 0 | 0 | 14 | 11 | 5 | 1 | 14 | 11 | 5 | 1 | 0 | 0 | 0 | 0 |
| 4. | 0 | 0 | 0 | 0 | 8 | 5 | 4 | 3 | 8 | 5 | 4 | 3 | 0 | 0 | 0 | 0 |
| 5. | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 3 | 2 | 3 | 5 | 0 | 0 | 0 | 0 |
| 6. | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 2 | 11 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7. | 0 | 0 | 0 | 0 | 5 | 5 | 0 | 0 | 30 | 20 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8. | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 18 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9. | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 140 | 23 | 5 | 2 | 0 | 0 | 0 | 0 |
| 10. | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 110 | 22 | 2 | 1 | 0 | 0 | 0 | 0 |
| 11. | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 88 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 12. | 0 | 0 | 0 | 0 | 14 | 6 | 0 | 0 | 132 | 10 | 1 | 1 | 0 | 0 | 0 | 0 |
| 13. | 0 | 0 | 0 | 0 | 7 | 3 | 0 | 0 | 161 | 14 | 3 | 1 | 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 |  |  |  | 1 |  |  |  | 1 |  | 2 |
| Varietal Evaluation | - | - | - | 1 | - | - | - | - | - | 1 |
| Integrated Pest Management |  |  |  |  |  |  |  |  |  |  |
| Integrated Crop Management |  |  |  |  |  |  |  |  |  |  |
| Integrated Disease Management |  |  |  |  |  |  |  |  |  |  |
| Small Scale Income Generation Enterprises |  |  |  |  |  |  |  |  |  |  |
| Weed Management |  |  |  |  |  |  |  |  |  |  |
| Resource Conservation Technology |  |  |  |  |  |  |  |  |  |  |
| Farm Machineries |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming System |  |  |  |  |  |  |  |  |  |  |
| Seed / Plant production |  |  |  |  |  |  |  |  |  |  |
| Value addition |  |  |  |  |  |  |  |  |  |  |
| Drudgery Reduction |  |  |  |  |  |  |  |  |  |  |
| Storage Technique |  |  |  |  |  |  |  |  |  |  |
| Mushroom cultivation |  |  |  |  |  |  |  |  |  |  |
| Total |  |  |  | **2** |  |  |  |  |  | **3** |

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

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thematic areas | Cereals | Oilseeds | Pulses | Commercial Crops | Vegetables | Fruits | Flower | Plantation crops | Tuber Crops | TOTAL |
| Integrated Nutrient Management |  |  |  |  |  | 1 |  |  |  | 1 |
| Varietal Evaluation |  |  |  |  |  |  |  |  |  |  |
| Integrated Pest Management |  |  |  |  |  |  |  |  |  |  |
| Integrated Crop Management |  |  |  |  |  |  |  |  |  |  |
| Integrated Disease Management |  |  |  |  |  |  |  |  |  |  |
| Small Scale Income Generation Enterprises |  |  |  |  |  |  |  |  |  |  |
| Weed Management |  |  |  |  |  |  |  |  |  |  |
| Resource Conservation Technology |  |  |  |  |  |  |  |  |  |  |
| Farm Machineries |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming System |  |  |  |  |  |  |  |  |  |  |
| Seed / Plant production |  |  |  |  |  |  |  |  |  |  |
| Value addition |  |  |  |  |  |  |  |  |  |  |
| Drudgery Reduction |  |  |  |  |  |  |  |  |  |  |
| Storage Technique |  |  |  |  |  |  |  |  |  |  |
| Mushroom cultivation |  |  |  |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  | **1** |  |  |  | **1** |

**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 | 1 |  |  |  |  | 1 |
| Value Addition |  |  |  |  |  |  |
| Production and Management |  | 1 |  |  |  | 1 |
| Feed and Fodder |  |  |  |  |  |  |
| Small Scale income generating enterprises |  |  |  |  |  |  |
| **TOTAL** | **1** | **2** |  |  |  | **3** |

**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** |
| Integrated Nutrient Management | Pepper | Efficacy of consortium bio-fertilizers in improving productivity in black pepper | 5 | 5 | 1.8 |
| Varietal Evaluation | Turmeric | Assessing the suitability of turmeric varieties Pratibha, Sobha & Varna under high range conditions | 4 | 4 | 0.24 |
|  |  |  |  |  |
| Integrated Pest Management |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Crop Management |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Disease Management |  |  |  |  |  |
|  |  |  |  |  |
| Small Scale Income Generation Enterprises |  |  |  |  |  |
|  |  |  |  |  |
| Weed Management |  |  |  |  |  |
|  |  |  |  |  |
| Resource Conservation Technology |  |  |  |  |  |
|  |  |  |  |  |
| Farm Machineries |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Farming System |  |  |  |  |  |
|  |  |  |  |  |
| Seed / Plant production |  |  |  |  |  |
|  |  |  |  |  |
| Value addition |  |  |  |  |  |
|  |  |  |  |  |
| Drudgery Reduction |  |  |  |  |  |
|  |  |  |  |  |
| Storage Technique |  |  |  |  |  |
|  |  |  |  |  |
| Mushroom cultivation |  |  |  |  |  |
|  |  |  |  |  |
| **Total** |  |  |  |  |  |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Thematic areas** | **Crop** | **Name of the technology refined** | **No. of trials** | **Number of farmers** | **Area in ha** |
| Integrated Nutrient Management | Banana | Nutrient Management of Nendran Banana under the agro-climatic conditions of High Ranges of Idukki | 5 | 5 | 0.3 |
|  |  |  |  |  |
| Varietal Evaluation |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Pest Management |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Crop Management |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Disease Management |  |  |  |  |  |
|  |  |  |  |  |
| Small Scale Income Generation Enterprises |  |  |  |  |  |
|  |  |  |  |  |
| Weed Management |  |  |  |  |  |
|  |  |  |  |  |
| Resource Conservation Technology |  |  |  |  |  |
|  |  |  |  |  |
| Farm Machineries |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Farming System |  |  |  |  |  |
|  |  |  |  |  |
| Seed / Plant production |  |  |  |  |  |
|  |  |  |  |  |
| Value addition |  |  |  |  |  |
|  |  |  |  |  |
| Drudgery Reduction |  |  |  |  |  |
|  |  |  |  |  |
| Storage Technique |  |  |  |  |  |
|  |  |  |  |  |
| Mushroom cultivation |  |  |  |  |  |
|  |  |  |  |  |
| **Total** |  |  | **5** | **5** | **0.3** |

**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, Gramalakshmi & Rhodo white under high range conditions | 10 | 10 |
| Nutrition management |  |  |  |  |
| Disease management | Dairy cattle | Synchronization of estrus in dairy cows | 10 | 10 |
| Value addition |  |  |  |  |
| Production and management | Quail | Assessing the performance of Nandanam variety of quail under High Ranges of Idukki | 5 | 5 |
| Feed and fodder |  |  |  |  |
| Small scale income generating enterprises |  |  |  |  |
| **Total** | | | **25** | **25** |

**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 |
| Pepper | Pepper  Based  Farming system | Low productivity | Efficiency of consortium  bio-fertilizers application in rejuvenating Black Pepper gardens | 5 | Effect  of consortium bio-fertilizers on the productivity of black pepper | Yield  Soil fertility | Consortium bio fertilizers– 2.78 t/ha  Chemical fertilizer application - 2.85 t/ha  Farmers practice – 2.1 t/ha | Organically managed plots gave 32 % increase in productivity  over farmers practice | Organic practices increased yield, reduced berry shedding and increased pest/disease tolerance. | - | - |
| Turmeric | Intercropping | Lack of quality planting material | Assessing the suitability of turmeric varieties Pratibha, Sobha & Varna under high range conditions | 4 | Suitability of turmeric varieties | Yield & BCR | Pratibha, Sobha & Varna varieties of turmeric were assessed with local turmeric | Seed yield ratio:-  1) Pratibha-1:7  2) Shobha- 1:6  3) Varna- 1:5.5  4) Local check- 1:4 | Pratibha is highly recommended | - | - |
| Dairy cattle | Dairy farming is a major enterprise where infertility problem is more | Infertility problem | Synchronization of estrus in dairy cows | 10 | Synchronization of estrus in dairy cows | Conception rate & intercalving period | - | Out of 10 trial, 6 animals were conceived through this technology (60%) | Found very effective and chance to aware new technology | - | - |
| Poultry | Mixed farming | Low egg production | Assessing the performance of Gramasree, Gramalakshmi & Rhodo white under high range conditions | 10 | Assessing the performance of Gramasree, Gramalakshmi & Rhodo white under high range conditions | 1) Growth rate.  2) Mortality rate.  3) Egg production.  4) BCR | - | **Gramasree**  1) Age at sexual maturity – 159 days.  2) Total egg production – 180 to 220 eggs.  **Gramalakshmi**  1) Age at sexual maturity – 160 days.  2) Total egg production – 170 to200 eggs.  **Rhodo white**  1) Age at sexual maturity – 175 days.  2) Total egg production – 150 to170 eggs. | Very good suitability for rural areas | - | - |
| Japanese Quail | Mixed farming | Low egg production | Assessing the performance of Nandanam variety of quail under high ranges of Idukki | 5 | Assessing the performance of Nandanam variety of quail under high ranges of Idukki | 1) Egg production. 2) Average weight gain.  3) Disease incidence.  4) BCR | - | 1) Age at sexual maturity – 7th Week.  2) Total egg production – 200 to220 eggs / bird / year. | Suitable for rural areas | - | - |

**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 (Farmer’s practice) | - | 2.1 | t/ha | 2,86759/- | 2.32 |
| Technology option 2 | KAU | 2.85 | t/ha | 4,36,174/- | 2.76 |
| Technology option 3 | KAU | 2.78 | t/ha | 4,36,335/- | 2.89 |
| Technology option 1 (Farmer’s practice) | Local | 126.4kg (3.95 t/ha) | t/ha | 6,320/- | 1:4 |
| Technology option 2 | IISR-Pratibha | 221.2kg (6.91 t/ha) | t/ha | 11,060/- | 1:7 |
| Technology option 3 | KAU-Shobha | 189.6kg (5.93 t/ha) | t/ha | 9,480/- | 1:6 |
| Technology option 4 | KAU-Varna | 173.8kg (5.43 t/ha) | t/ha | 8,690/- | 1:5.5 |
| Technology option 1 (Farmer’s practice) A.I. during estrus period & high incidence of repeat breeding problem | - | - | - | - | - |
| Technology option 2 A.I. during 10-12 hours after the end of estrum | - | - | - | - | -- |
| Technology option 3 Inducing Estrus for non-expressing animals by vaginal CIDR insert, removal of CIDR on 9th day with *Lutalyse* injection (5 ml i/m) and A.I. at 48 to72 hours. | TANUVAS | Out of 10 trials, 6 animals were conceived | - | Rs.4500/ unit | 2.93 |
| Technology option 1 (Farmer’s practice)  Growing of desi birds with poor production potential | - | - | - | - | - |
| Technology option 2  Assessing the performance of Gramasree variety | KAU | 1) Age at sexual maturity – 159 days.  2) Total egg production – 180 to 220 eggs. | - | Rs.8000/ unit | 3.67 |
| Technology option 3  Assessing the performance of Gramalakshmi variety | KAU | 1) Age at sexual maturity – 160 days.  2) Total egg production – 170 to 200 eggs. | - | Rs.6500/ unit | 3.23 |
| Technology option 4  Assessing the performance of Rhodo white variety | TANUVAS | 1) Age at sexual maturity – 175 days.  2) Total egg production – 150 to170 eggs. | - | Rs.5500/ unit | 3.1 |
| Technology option 1 (Farmer’s practice)  Growing of desi birds with poor production potential | - | - | - | - | - |
| Technology option 2  Nandanam variety with good production potential | TANUVAS | 1) Age at sexual maturity – 7th Week.  2) Total egg production – 200 to220 eggs / bird / year. | - | Rs.3200/ unit | 2.20 |

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: **Assessment on the efficacy of consortium bio fertilizers on the productivity of black pepper.**

2 Problem Definition: Low productivity in black pepper.

3 Details of technologies selected for assessment: Application of Neem cake @ 1 kg/plant + 10 kg FYM + consortium bio fertilizers i.e. Azospirillum and phosphor bacteria @ 25 g/plant and AMF @ 110 g/plant.

4 Source of technology: KAU

5 Production system and thematic area: Pepper based cropping system, Integrated Nutrient Management.

6 Performance of the Technology with performance indicators: The yield recorded after three years of trial indicated the following results. Yield recorded in farmers practice was 2.1 t/ha with the BCR of 2.32, the yield recorded under chemical fertilizer application was 2.85 t/ha with the BCR of 2.76 and the pepper plants under organic management yielded 2.78 t/ha with the BCR of 2.89.

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

techniques:- The pepper plants under organic management produced bold berries, have low percentage of berry shedding and the plants showed increased pest/disease tolerance.

8 Final recommendation for micro level situation: Front line demonstration on the application of consortium bio fertilizers in black pepper for improving the productivity is conducted in the year 2011 – 2012.

9 Constraints identified and feedback for research: Consortium fertilizers show significant results on the productivity of black pepper only if the technology is continuously practiced for three years and the lack of enough moisture/organic matter in the field results in poor multiplication of bio fertilizers.

10 Process of farmer’s participation and their reaction: The pepper grower’s society in the locality had adopted the

technology & more than 100 farmers are practicing the technology in over 40 ha area.

**2)**

1 Title of Technology Assessed: **On Farm Trial to assess the suitability of Turmeric varieties for High Ranges of Idukki District.**

2 Problem Definition: Local varieties of turmeric have low yield potential. Turmeric high yielding varieties were proposed to assess the suitability of this crop for high ranges of Idukki district.

3 Details of technologies selected for assessment:

**Technology Option 1:** Local varieties of turmeric are cultivated by the farmers. Organic farming adopted in turmeric cultivation. Yield potential is 3.6 t/ha [Dry].

**Technology Option 2:** Assessment of turmeric variety Pratibha having an yield potential of 7.82 t/ha [Dry] (Institute of Spices Research, Kozhikode).

**Technology Option 3:** Assessment of turmeric Sobha variety having an yield potential of 6.50 t/ha [Dry] (Kerala Agricultural University, Thrissur). High yielding, good color and especially suited for high range conditions.

**Technology Option 4:** Assessment of turmeric Varna variety having an yield potential of 4.2 t/ha [Dry] (Kerala Agricultural University, Thrissur).

4 Source of technology: IISR & KAU.

5 Production system and thematic area: Mono-cropping. Introduction of high yielding improved crop varieties.

6 Performance of the Technology with performance indicators

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

Techniques: Seed yield ratio: – Pratibha variety-1:7, Sobha-1:6, Varna-1:5.5, Local check-1:4 .

8 Final recommendation for micro level situation: Pratibha is highly recommended.

9 Constraints identified and feedback for research: Delay in obtaining quality turmeric rhizomes.

10 Process of farmer’s participation and their reaction: Farmers showed interest in cultivating the selected turmeric high yielding variety – Pratibha in their fields.

**3)**

1 Title of Technology Assessed: **Synchronization of estrus in dairy cows.**

2 Problem Definition: Infertility in dairy cows.

3 Details of technologies selected for assessment: Synchronization of estrus in dairy cows.

4 Source of technology: TANUVAS.

5 Production system and thematic area: Mixed farming.

6 Performance of the Technology with performance indicators: Out of 10 trials, 6 animals were conceived.

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

techniques: Nil.

8 Final recommendation for micro level situation: New scientific breeding technology assessed is very much useful for farmers and make new technology awareness among farmers.

9 Constraints identified and feedback for research: Lack of awareness, negligence and improper managemental practices.

10 Process of farmer’s participation and their reaction: Farmers are thoroughly convinced about the new scientific breeding technology and follow in future also.

**4)**

1 Title of Technology Assessed: **Assessing the performance of Gramasree, Gramalakshmi & Rhodo white under high range conditions.**

2 Problem Definition: Low egg production.

3 Details of technologies selected for assessment: Assessing the performance of Gramasree, Gramalakshmi & Rhodo white under high range conditions.

4 Source of technology: KAU & TANUVAS.

5 Production system and thematic area: Mixed farming and egg production.

6 Performance of the Technology with performance indicators:

**Gramasree: -** 1) Age at sexual maturity – 159 days. 2) Total egg production – 180 to 220 eggs.

**Gramalakshmi: -** 1) Age at sexual maturity – 160 days. 2) Total egg production – 170 to200 eggs.

**Rhodo white: -** 1) Age at sexual maturity – 175 days. 2) Total egg production – 150 to170 eggs.

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

Techniques: Nil.

8 Final recommendation for micro level situation: Introduction and popularization of different variety released by different universities perform well and improves the financial status among farmers.

9 Constraints identified and feedback for research: Lack of awareness.

10 Process of farmer’s participation and their reaction: Farmers are thoroughly convinced about the new variety of poultry with good production potential.

**5)**

1 Title of Technology Assessed: **Assessing the performance of Nandanam variety of quail under High Ranges of Idukki.**

2 Problem Definition: Low egg production.

3 Details of technologies selected for assessment: Assessing the performance of Nandanam variety of quail under High Ranges of Idukki.

4 Source of technology: TANUVAS.

5 Production system and thematic area: Mixed farming and egg production.

6 Performance of the Technology with performance indicators: 1) Age at sexual maturity – 7th Week 2) Total egg production – 200 to220 eggs / bird / year.

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

techniques: Nil.

8 Final recommendation for micro level situation: Introduction and popularization of different variety released by different universities perform well and improves the financial status among farmers.

9 Constraints identified and feedback for research: Lack of awareness.

10 Process of farmer’s participation and their reaction; Farmers are thoroughly convinced about the new variety of quail with good production potential.

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

**Results of On Farm Trial**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop/ enterprise | Farming situation | **Problem definition** | Title of OFT | No. of  trials | Technology refined | Parameters of refined | Data on the parameter | Results of refinement | Feedback from the farmer | Details of refinement done |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Banana | Irrigated | Low yield and untapped yield potential | Nutrient Management of Nendran Banana under the agro-climatic conditions of High Ranges of Idukki | 5 | Nutritional management | Stages of fetilizer application | 1) Vegetative growth.  2) Days for bunch emergence.  3) Yield. | On going | - | - |

**Contd..**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Technology Refined | Source of Technology for Technology Option1 /  Justification for modification of assessed  Technology Option 1 | 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 |
| Technology Option 1  9 to 10 splits of fertilizer application. The quantity of fertilizer applied varies from farmer to farmer. | Farmers practice | Ongoing | - | - | - |
| Technology Option 2 190:115:300 g / plant / year in 6 splits. The recommended practice is not being adopted since the farmers are not convinced about the sufficiency of fertilizers for the crop. | KAU | Ongoing | - | - | - |
| Technology Option 3 NPK @ 240:145:375 g / plant in 9 splits | Farmers Innovation | Ongoing | - | - | - |

4.D.2. Details of each On Farm Trial for refinement to be furnished in the following format separately as per the proforma

below

1. Title of Technology refined: **Nutrient Management of Nendran Banana under the agro-climatic conditions**

**of High Ranges of Idukki.**

2 Problem Definition: Low yield and untapped yield potential.

3 Details of technologies selected for refinement: In the High Ranges of Idukki district, Nendran banana is of 13 months duration. The fertilizer application schedule which is standardized for Nendran banana grown in plains, which is of 10 months duration, is not sufficient in the High Range condition. At least 9 splits of fertilizer application is required since bunch emergence takes place only by the 10th month.

4 Source of technology: Farmers innovation.

5 Production system and thematic area: Improving the productivity of major crops.

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.

**PART V - FRONTLINE DEMONSTRATIONS**

**5.A. Summary of FLDs implemented during 2010-11**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Oilseeds |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Pulses |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Cereals | Paddy belts | Kharif | Rice | Uma | KAU released | Labour  scarcity | Mechanization  In paddy | 5 | 5 | 4 | 9 | 13 | Small holdings |
|  | Paddy belts | Kharif | Rice | Uma | KAU released | Low  productivity | INM | 5 | 5 | 7 | 13 | 20 | - |
|  | Millets |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Vegetables |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Bitter gourd | Mono cropping | 2010-11 | Bitter gourd | Local | - | IPDM | Integrated management of yellowing in bitter gourd | 1 | 1 | 3 | 2 | 5 | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Flowers |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Ornamental |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fruit |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Spices and condiments | Cardamom belts | 2010-11 | Cardamom | Njallani | Farmer developed | Improved Productivity | Integrated crop management | 5 | 5 | 11 | 19 | 30 | - |
| Pepper based cropping system | Perennial crop | Pepper | Local | - | Drudgery reduction | Mechanized White pepper production | - | - | - | 10 | 10 | - |
|  | Commercial |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Medicinal and aromatic |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fodder |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Plantation |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fibre |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Dairy cattle | Mixed farming | Throughout the year | Dairy cattle | Crossbred cattle | - | Milk production | Prophylactic management of mastitis in dairy cows using antiseptic solution in teat cups | 20 | 50 animal | 2 | 18 | 20 | Nil |
|  | Dairy calves | Mixed farming | Throughout the year | Dairy calves | Crossbred dairy calves | - | Growth performance | Management of ecto & endo parasitic infestation in dairy calves | 10 | 10 animal | - | 10 | 10 | Nil |
|  | Poultry |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Rabbitry |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Piggery |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Sheep and goat |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Duckery |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Common carps |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Mussels |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Ornamental fishes |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Oyster mushroom |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Button mushroom |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Vermicompost |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Sericulture |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Apiculture |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Implements |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Others (specify) | Mixed farming | - | Sweet potato | CTCRI | Gouri | Increase in productivity | Demonstration of Gouri variety sweet potato | - | 0.24 | - | 4 | 4 | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**5.A. 1. Soil fertility status of FLDs plots during 2010-11**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Category | Farming  Situation | Season  and  Year | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Season and year | Status of soil | | | Previous crop grown |
| N | P | K |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Oilseeds |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Pulses |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Cereals | Paddy belts | Kharif | Rice | Uma | KAU released | Labour  scarcity | Mechanization  In paddy | Kharif | H | M | H | Rice |
| Paddy belts | Kharif | Rice | Uma | KAU released | Low  productivity | INM | Kharif | H | M | H | Rice |
|  | Millets |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Vegetables | Mono cropping | July and 2010 | Bitter gourd | Local | - | Integrated Pest & Disease Management | Integrated Pest & Disease Management | January and 2011 | M | H | H | Bitter gourd |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Flowers |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Ornamental |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fruit |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Spices and condiments | Cardamom belts | 2010 - 11 | Cardamom | Njallani | Farmer developed | Low  productivity | Integrated crop management | 2010 - 11 | H | M | H | Cardamom |
| Pepper monocropping | 2010 - 11 | Pepper | Panniyur | IISR | Low  productivity | INM | 2010 - 11 | H | M | H | Pepper |
|  | Commercial |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Medicinal and aromatic |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fodder |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Plantation |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fibre |  |  |  |  |  |  |  |  |  |  |  |  |

**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 -  Rice | Small scale mechanization in paddy farming | Uma | KAU | Rice based | 13 | 5 | 32.8 | 30.00 | 31.4 | 28.7 | 9.41 | 32,088 | 43,960 | 11872 | 1.37 | 41,854 | 40,180 | -1674 | 0.96 |
| Integrated Nutrient Management | Uma | KAU | Rice based | 20 | 5 | 29.5 | 28.7 | 29.1 | 28.7 | 1.4 | 35,120 | 40,740 | 5,620 | 1.16 | 41,854 | 40,180 | -1674 | 0.96 |
| Millets |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vegetables | Integrated management of yellowing in bitter gourd | Local | - | Mono-cropping | 5 | 1 | 20 | 10 | 16 | 12 | 30 | 16250 | 20320 | 7997 | 1:1.25 | 22450 | 20320 | -2130 | 1:0.90 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Flowers |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ornamental |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fruit |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Spices and condiments | Mechanized white pepper production | - | - | Mono-cropping | 10 units | - | - | - | - | - | - | 12600 | 28500 | 15900 | 2.26 | - | - | - | - |
| Cardamom | Integrated Crop Management in Cardamom | Njallani | - | Cardamom based cropping systems | 15 units | 5 | 0.96 | 0.88 | 0.92 | 0.81 | 13.6 | 392248 | 1012000 | 619752 | 2.58 | 403081 | 850500 | 447419 | 2.11 |
| Commercial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Medicinal and aromatic |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fodder |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Plantation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fibre |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) | Demonstration of sweet potato | Gouri | CTCRI | Mixed cropping | 4 | 0.24 | - | - | - | - | - | 20000 | 34000 | 14000 | 1.70 | 18000 | 23000 | 5000 | 1.27 |

\* 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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dairy cattle | Prophylactic management of mastitis in dairy cows using antiseptic solution in teat cups | Crossbred | 20 | 50 animal | 13 to 15 L / day | 15 to 18 L / day | 12 to 14 L / day | 15 L | 15% | 4200 | 15000 | 12000 | 3.57 | 3600 | 9000 | 5400 | 2.50 |
| Dairy calves | Management of ecto & endo parasitic infestation in dairy calves | Crossbred | 10 | 10 animal | 15 to 20 Kg | 20 to 25 Kg | 10 to 15 Kg | 12 Kg | - | 6000 | 13000 | 7000 | 2.16 | 1500 | 3200 | 1700 | 2.13 |
| Poultry |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rabbitry |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Piggery |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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. Cotton: Nil

**5.B.6.6 Technical Feedback on the demonstrated technologies on all crops / enterprise**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Crop / Enterprise** | **Name of the technology demonstrated** | **Feed Back** |
| 1. | Paddy | Mechanized paddy farming | Timely completion of cultural practices & reduced labour input. |
| 2. | Paddy | Integrated Nutrient Management in Paddy | Increased productivity. |
| 3. | Cardamom | Integrated Crop Management in Cardamom | Increased productivity & disease resistance. |
| 4. | Bitter gourd | Integrated Management of yellowing in Bitter gourd | Increased yield by 30%. |
| 5. | Pepper | Mechanized White Pepper production | Increased returns. |
| 6. | Sweet Potato | Demonstration of Gouri variety of Sweet potato | Average performance of the variety in this region. |
| 7. | Dairy cattle | Prophylactic management of mastitis in dairy cow using antiseptic solution in teat cups. | Very good result for prevention of mastitis disease. |
| 8. | Dairy cattle | Management of ecto-endo parasitic infestation in dairy calves. | Easy oral administration. |

**5.B.6.7 Farmers’ reactions on specific technologies**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Crop / Enterprise** | **Name of the technology demonstrated** | **Feed Back** |
| 1 | Paddy | Mechanized paddy farming | A novel concept well accepted by farmers of that region which reduces labour input |
| 2 | Paddy | Integrated Nutrient Management in Paddy | Increased productivity |
| 3 | Cardamom | Integrated Crop Management in Cardamom | Increased productivity & disease resistance. |
| 4 | Bitter gourd | Integrated Management of yellowing in Bitter gourd | IPDM. |
| 5 | Pepper | Mechanized White Pepper production | Well accepted by farmers due to its increased returns |
| 6 | Sweet Potato | Demonstration of Gouri variety of Sweet potato | Farmers are less convinced on the performance of the new variety in this region |
| 7 | Dairy cattle | Prophylactic management of mastitis in dairy cow using antiseptic solution in teat cups. | Farmers are convinced on the efficacy of this technology for prevention of mastitis. |
| 8 | Dairy cattle | Management of ecto-endo parasitic infestation in dairy calves. | Farmers have expressed their willingness to adopt the technology. |

**5.B.6.8 Extension and Training activities under FLD**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No.** | **Activity** | **No. of activities organised** | **Number of participants** | **Remarks** |
| 1 | Field days |  |  |  |
| 2 | Farmers Training | 11 | 162 | - |
| 3 | Media coverage |  |  |  |
| 4 | Training for extension functionaries |  |  |  |

**PART VI – DEMONSTRATIONS ON CROP HYBRIDS**

**Demonstration details on crop hybrids:** Nil

**PART VII. TRAINING**

**7.A.. Farmers’ Training 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 | 1 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 5 | 5 |
| Integrated Crop Management | 2 | 18 | 1 | 19 | 8 | 3 | 11 | 26 | 4 | 30 |
| Soil and Water Conservation | 1 | 20 | 0 | 20 | 0 | 0 | 0 | 20 | 0 | 20 |
| Integrated Nutrient Management | 2 | 11 | 2 | 13 | 6 | 1 | 7 | 17 | 3 | 20 |
| 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 | 1 | 0 | 18 | 18 | 0 | 0 | 0 | 0 | 18 | 18 |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **b) Fruits** |  |  |  |  |  |  |  |  |  |  |
| Training and Pruning |  |  |  |  |  |  |  |  |  |  |
| Layout and Management of Orchards |  |  |  |  |  |  |  |  |  |  |
| Cultivation of Fruit |  |  |  |  |  |  |  |  |  |  |
| Management of young plants/orchards |  |  |  |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  |  |  |  |  |  |  |  |  |
| Export potential fruits |  |  |  |  |  |  |  |  |  |  |
| Micro irrigation systems of orchards |  |  |  |  |  |  |  |  |  |  |
| Plant propagation techniques |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **c) Ornamental Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery Management | 1 | 3 | 18 | 21 | 0 | 0 | 0 | 3 | 18 | 21 |
| 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 | 3 | 14 | 6 | 20 | 8 | 2 | 10 | 22 | 8 | 30 |
| 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 | 1 | 41 | 0 | 41 | 0 | 0 | 0 | 41 | 0 | 41 |
| Integrated water management |  |  |  |  |  |  |  |  |  |  |
| Integrated nutrient management |  |  |  |  |  |  |  |  |  |  |
| Production and use of organic inputs | 1 | 32 | 14 | 46 | 0 | 0 | 0 | 32 | 14 | 46 |
| 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 | 1 | 70 | 0 | 70 | 0 | 0 | 0 | 70 | 0 | 70 |
| Poultry Management | 1 | 9 | 14 | 23 | 0 | 0 | 0 | 9 | 14 | 23 |
| Piggery Management |  |  |  |  |  |  |  |  |  |  |
| Rabbit Management |  |  |  |  |  |  |  |  |  |  |
| Animal Nutrition Management | 1 | 3 | 18 | 21 | 0 | 0 | 0 | 3 | 18 | 21 |
| Animal Disease Management | 1 | 30 | 0 | 30 | 0 | 0 | 0 | 30 | 0 | 30 |
| 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 | 1 | 3 | 18 | 21 | 0 | 0 | 0 | 3 | 18 | 21 |
| Minimization of nutrient loss in processing |  |  |  |  |  |  |  |  |  |  |
| Processing and cooking | 2 | 3 | 20 | 23 | 0 | 0 | 0 | 3 | 20 | 23 |
| Gender mainstreaming through SHGs |  |  |  |  |  |  |  |  |  |  |
| Storage loss minimization techniques |  |  |  |  |  |  |  |  |  |  |
| Value addition | 4 | 13 | 33 | 46 | 0 | 0 | 0 | 13 | 33 | 46 |
| Women empowerment |  |  |  |  |  |  |  |  |  |  |
| Location specific drudgery production |  |  |  |  |  |  |  |  |  |  |
| Rural Crafts | 2 | 2 | 4 | 6 | 0 | 0 | 0 | 2 | 4 | 6 |
| Women and child care |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Agril. Engineering** |  |  |  |  |  |  |  |  |  |  |
| Farm machinery and its maintenance |  |  |  |  |  |  |  |  |  |  |
| Installation and maintenance of micro irrigation systems |  |  |  |  |  |  |  |  |  |  |
| Use of Plastics in farming practices |  |  |  |  |  |  |  |  |  |  |
| Production of small tools and implements |  |  |  |  |  |  |  |  |  |  |
| Repair and maintenance of farm machinery and implements |  |  |  |  |  |  |  |  |  |  |
| Small scale processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Post Harvest Technology |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Plant Protection** |  |  |  |  |  |  |  |  |  |  |
| Integrated Pest Management | 1 | 26 | 10 | 36 | 4 | 0 | 4 | 30 | 10 | 40 |
| Integrated Disease Management |  |  |  |  |  |  |  |  |  |  |
| Bio-control of pests and diseases |  |  |  |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Fisheries** |  |  |  |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing |  |  |  |  |  |  |  |  |  |  |
| Composite fish culture |  |  |  |  |  |  |  |  |  |  |
| Hatchery management and culture of freshwater prawn |  |  |  |  |  |  |  |  |  |  |
| Breeding and culture of ornamental fishes |  |  |  |  |  |  |  |  |  |  |
| Portable plastic carp hatchery |  |  |  |  |  |  |  |  |  |  |
| Pen culture of fish and prawn |  |  |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  |  |  |  |  |  |
| Edible oyster farming |  |  |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  |  |  |  |  |  |
| Fish processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Production of Inputs at site** |  |  |  |  |  |  |  |  |  |  |
| Seed Production |  |  |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  |  |  |  |  |  |
| Bio-agents production |  |  |  |  |  |  |  |  |  |  |
| Bio-pesticides production |  |  |  |  |  |  |  |  |  |  |
| Bio-fertilizer production |  |  |  |  |  |  |  |  |  |  |
| Vermi-compost production |  |  |  |  |  |  |  |  |  |  |
| Organic manures production |  |  |  |  |  |  |  |  |  |  |
| Production of fry and fingerlings |  |  |  |  |  |  |  |  |  |  |
| Production of Bee-colonies and wax sheets |  |  |  |  |  |  |  |  |  |  |
| Small tools and implements |  |  |  |  |  |  |  |  |  |  |
| Production of livestock feed and fodder |  |  |  |  |  |  |  |  |  |  |
| Production of Fish feed |  |  |  |  |  |  |  |  |  |  |
| Mushroom production | 6 | 9 | 34 | 43 | 0 | 11 | 11 | 9 | 45 | 54 |
| 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** | **27** | **282** | **206** | **488** | **4** | **11** | **44** | **286** | **217** | **503** |

**7.B.. Farmers’ Training including sponsored training programmes (Off campus)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | |
| **General** | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| **Crop Production** |  |  |  |  |  |  |  |  |  |  |
| Weed Management |  |  |  |  |  |  |  |  |  |  |
| Resource Conservation Technologies |  |  |  |  |  |  |  |  |  |  |
| Cropping Systems |  |  |  |  |  |  |  |  |  |  |
| Crop Diversification |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming | 2 | 50 | 3 | 53 | 5 | 2 | 7 | 55 | 5 | 60 |
| Micro Irrigation/Irrigation |  |  |  |  |  |  |  |  |  |  |
| Seed production |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Integrated Crop Management | 2 | 40 | 0 | 40 | 4 | 0 | 4 | 44 | 0 | 44 |
| Soil and Water Conservation | 1 | 27 | 7 | 34 | 0 | 0 | 0 | 27 | 7 | 34 |
| 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 | 1 | 6 | 6 | 12 | 3 | 4 | 7 | 9 | 10 | 19 |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **b) Fruits** |  |  |  |  |  |  |  |  |  |  |
| Training and Pruning |  |  |  |  |  |  |  |  |  |  |
| Layout and Management of Orchards |  |  |  |  |  |  |  |  |  |  |
| Cultivation of Fruit |  |  |  |  |  |  |  |  |  |  |
| Management of young plants/orchards |  |  |  |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  |  |  |  |  |  |  |  |  |
| Export potential fruits |  |  |  |  |  |  |  |  |  |  |
| Micro irrigation systems of orchards |  |  |  |  |  |  |  |  |  |  |
| Plant propagation techniques |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **c) Ornamental Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery Management |  |  |  |  |  |  |  |  |  |  |
| Management of potted plants |  |  |  |  |  |  |  |  |  |  |
| Export potential of ornamental plants |  |  |  |  |  |  |  |  |  |  |
| Propagation techniques of Ornamental Plants |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **d) Plantation crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **e) Tuber crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **f) Spices** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **g) Medicinal and Aromatic Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Production and management technology |  |  |  |  |  |  |  |  |  |  |
| Post harvest technology and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Soil Health and Fertility Management** |  |  |  |  |  |  |  |  |  |  |
| Soil fertility management | 1 | 17 | 0 | 17 | 0 | 0 | 0 | 17 | 0 | 17 |
| Integrated water management |  |  |  |  |  |  |  |  |  |  |
| Integrated nutrient management | 1 | 50 | 50 | 100 | 0 | 0 | 0 | 50 | 50 | 100 |
| 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 | 1 | 0 | 18 | 18 | 0 | 0 | 0 | 0 | 18 | 18 |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Livestock Production and Management** |  |  |  |  |  |  |  |  |  |  |
| Dairy Management |  |  |  |  |  |  |  |  |  |  |
| Poultry Management | 1 | 20 | 13 | 33 | 10 | 10 | 20 | 30 | 23 | 53 |
| 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 | 4 | 12 | 4 | 16 | 0 | 0 | 0 | 12 | 4 | 16 |
| Processing and cooking | 2 | 9 | 29 | 38 | 4 | 19 | 23 | 13 | 48 | 61 |
| Gender mainstreaming through SHGs |  |  |  |  |  |  |  |  |  |  |
| Storage loss minimization techniques |  |  |  |  |  |  |  |  |  |  |
| Value addition | 4 | 1 | 25 | 26 | 0 | 0 | 0 | 1 | 25 | 26 |
| Women empowerment |  |  |  |  |  |  |  |  |  |  |
| Location specific drudgery production |  |  |  |  |  |  |  |  |  |  |
| Rural Crafts | 5 | 0 | 20 | 20 | 0 | 5 | 5 | 0 | 25 | 25 |
| Women and child care |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Agril. Engineering** |  |  |  |  |  |  |  |  |  |  |
| Farm machinery and its maintenance |  |  |  |  |  |  |  |  |  |  |
| Installation and maintenance of micro irrigation systems |  |  |  |  |  |  |  |  |  |  |
| Use of Plastics in farming practices |  |  |  |  |  |  |  |  |  |  |
| Production of small tools and implements |  |  |  |  |  |  |  |  |  |  |
| Repair and maintenance of farm machinery and implements |  |  |  |  |  |  |  |  |  |  |
| Small scale processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Post Harvest Technology |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Plant Protection** |  |  |  |  |  |  |  |  |  |  |
| Integrated Pest Management | 1 | 0 | 14 | 14 | 0 | 0 | 0 | 0 | 14 | 14 |
| Integrated Disease Management | 1 | 35 | 0 | 35 | 0 | 0 | 0 | 35 | 0 | 35 |
| Bio-control of pests and diseases | 1 | 44 | 0 | 44 | 0 | 0 | 0 | 44 | 0 | 44 |
| 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 | 1 | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 25 |
| 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 | 1 | 7 | 8 | 0 | 3 | 3 | 1 | 10 | 11 |
| Apiculture | 3 | 78 | 8 | 86 | 0 | 0 | 0 | 78 | 8 | 86 |
| 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** | **33** | **415** | **204** | **619** | **26** | **43** | **69** | **441** | **247** | **688** |

**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 | 1 | 12 | | 19 | | 31 | 1 | 1 | 2 | 13 | 20 | 33 |
| Bee-keeping |  |  | |  | |  |  |  |  |  |  |  |
| Sericulture |  |  | |  | |  |  |  |  |  |  |  |
| Repair and maintenance of farm machinery and implements |  |  | |  | |  |  |  |  |  |  |  |
| Value addition | 2 | 40 | | 36 | | 76 | 1 | 1 | 2 | 41 | 37 | 78 |
| Small scale processing |  |  | |  | |  |  |  |  |  |  |  |
| Post Harvest Technology | 1 | 0 | | 25 | | 25 | 0 | 1 | 1 | 0 | 26 | 26 |
| Tailoring and Stitching | 1 | 0 | | 26 | | 26 | 0 | 1 | 1 | 0 | 27 | 27 |
| Rural Crafts | 11 | 9 | | 29 | | 38 | 1 | 10 | 11 | 10 | 39 | 49 |
| Production of quality animal products |  |  | |  | |  |  |  |  |  |  |  |
| Dairying | 3 | 61 | | 43 | | 104 | 0 | 20 | 20 | 61 | 63 | 124 |
| 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** | **19** | **122** | | **178** | | **300** | **3** | **34** | **37** | **125** | **212** | **337** |

**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 | 17 | | 24 | | 41 | 3 | 1 | 4 | 20 | 25 | 45 |
| Small scale processing |  |  | |  | |  |  |  |  |  |  |  |
| Post Harvest Technology | 2 | 0 | | 15 | | 15 | 0 | 0 | 0 | 0 | 15 | 15 |
| Tailoring and Stitching |  |  | |  | |  |  |  |  |  |  |  |
| Rural Crafts |  |  | |  | |  |  |  |  |  |  |  |
| Production of quality animal products |  |  | |  | |  |  |  |  |  |  |  |
| Dairying |  |  | |  | |  |  |  |  |  |  |  |
| Sheep and goat rearing |  |  | |  | |  |  |  |  |  |  |  |
| Quail farming |  |  | |  | |  |  |  |  |  |  |  |
| Piggery |  |  | |  | |  |  |  |  |  |  |  |
| Rabbit farming |  |  | |  | |  |  |  |  |  |  |  |
| Poultry production |  |  | |  | |  |  |  |  |  |  |  |
| Ornamental fisheries |  |  | |  | |  |  |  |  |  |  |  |
| Composite fish culture |  |  | |  | |  |  |  |  |  |  |  |
| Freshwater prawn culture |  |  | |  | |  |  |  |  |  |  |  |
| Shrimp farming |  |  | |  | |  |  |  |  |  |  |  |
| Pearl culture |  |  | |  | |  |  |  |  |  |  |  |
| Cold water fisheries |  |  | |  | |  |  |  |  |  |  |  |
| Fish harvest and processing technology |  |  | |  | |  |  |  |  |  |  |  |
| Fry and fingerling rearing |  |  | |  | |  |  |  |  |  |  |  |
| Any other (pl. specify) |  |  | |  | |  |  |  |  |  |  |  |
| **TOTAL** | **3** | **17** | | **39** | | **56** | **3** | **1** | **4** | **20** | **40** | **60** |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | | | |
| **General** | | | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | | **Total** | | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| Productivity enhancement in field crops |  |  | |  | |  |  |  |  |  |  |  |
| Integrated Pest Management |  |  | |  | |  |  |  |  |  |  |  |
| Integrated Nutrient management |  |  | |  | |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  | |  | |  |  |  |  |  |  |  |
| Protected cultivation technology |  |  | |  | |  |  |  |  |  |  |  |
| Production and use of organic inputs |  |  | |  | |  |  |  |  |  |  |  |
| Care and maintenance of farm machinery and implements |  |  | |  | |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  | |  | |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  | |  | |  |  |  |  |  |  |  |
| Women and Child care |  |  | |  | |  |  |  |  |  |  |  |
| Low cost and nutrient efficient diet designing | 1 | 31 | | 43 | | 74 | 0 | 1 | 1 | 31 | 44 | 75 |
| Group Dynamics and farmers organization |  |  | |  | |  |  |  |  |  |  |  |
| Information networking among farmers |  |  | |  | |  |  |  |  |  |  |  |
| Capacity building for ICT application |  |  | |  | |  |  |  |  |  |  |  |
| Management in farm animals |  |  | |  | |  |  |  |  |  |  |  |
| Livestock feed and fodder production |  |  | |  | |  |  |  |  |  |  |  |
| Household food security |  |  | |  | |  |  |  |  |  |  |  |
| Any other (pl. specify) |  |  | |  | |  |  |  |  |  |  |  |
| **Total** | **1** | **31** | | **43** | | **74** | **0** | **1** | **1** | **31** | **44** | **75** |

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

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

7.G. Sponsored training programmes

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 3 | 72 | 78 | 150 | 4 | 0 | 4 | 76 | 78 | 154 |
| 1.b. | Commercial production of vegetables | 2 | 6 | 24 | 30 | 3 | 4 | 7 | 9 | 28 | 37 |
| **2** | **Production and value addition** |  |  |  |  |  |  |  |  |  |  |
| 2.a. | Fruit Plants | 2 | 0 | 32 | 30 | 0 | 0 | 0 | 0 | 35 | 35 |
| 2.b. | Ornamental plants |  |  |  |  |  |  |  |  |  |  |
| 2.c. | Spices crops | 1 | 35 | 0 | 35 | 0 | 0 | 0 | 35 | 0 | 35 |
| **3.** | **Soil health and fertility management** | 3 | 27 | 32 | 59 | 0 | 0 | 0 | 27 | 32 | 59 |
| **4** | **Production of Inputs at site** |  |  |  |  |  |  |  |  |  |  |
| **5** | **Methods of protective cultivation** | 3 | 36 | 60 | 96 | 4 | 0 | 4 | 40 | 60 | 100 |
| **6** | **Others (Mushroom)** | 1 | 0 | 25 | 25 | 0 | 0 | 0 | 0 | 25 | 25 |
| **7** | **Post harvest technology and value addition** |  |  |  |  |  |  |  |  |  |  |
| 7.a. | Processing and value addition | 3 | 53 | 34 | 87 | 4 | 19 | 23 | 57 | 53 | 110 |
| 7.b. | Others (Apiculture) | 3 | 58 | 68 | 126 | 0 | 0 | 0 | 58 | 68 | 126 |
| **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 | 1 | 41 | 0 | 41 | 0 | 0 | 0 | 41 | 0 | 41 |
| 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 | 2 | 4 | 31 | 35 | 0 | 0 | 0 | 4 | 31 | 35 |
| 11.b. | Economic empowerment of women | 1 | 3 | 18 | 21 | 0 | 0 | 0 | 3 | 18 | 21 |
| 11.c. | Drudgery reduction of women | 2 | 0 | 29 | 29 | 0 | 0 | 0 | 0 | 29 | 29 |
| 11.d. | Others (Value addition) | 1 | 13 | 35 | 48 | 0 | 0 | 0 | 13 | 35 | 48 |
| **12** | **Agricultural Extension** |  |  |  |  |  |  |  |  |  |  |
| 12.a. | Capacity Building and Group Dynamics |  |  |  |  |  |  |  |  |  |  |
| 12.b. | Others (IPM) | 1 | 18 | 0 | 18 | 0 | 0 | 0 | 18 | 0 | 18 |
|  | **Total** | **29** | **336** | **466** | **832** | **15** | **23** | **38** | **381** | **489** | **870** |

**Details of sponsoring agencies involved:**

**1.** Co-operative Bank.

**2.** ATMA.

**3.** Agricultural Department.

**4.** High Range Development Society.

**5.** Union Bank of India (RSETI).

**6.** Spices Board.

**7.** Coffee Board.

**7.H. Details of vocational training programmes carried out by KVKs for rural youth**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S. No.** | **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | |
| **General** | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| **1** | **Crop production and management** |  |  |  |  |  |  |  |  |  |  |
| 1.a. | Commercial floriculture |  |  |  |  |  |  |  |  |  |  |
| 1.b. | Commercial fruit production |  |  |  |  |  |  |  |  |  |  |
| 1.c. | Commercial vegetable production |  |  |  |  |  |  |  |  |  |  |
| 1.d. | Integrated crop management |  |  |  |  |  |  |  |  |  |  |
| 1.e. | Organic farming |  |  |  |  |  |  |  |  |  |  |
| 1.f. | Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **2** | **Post harvest technology and value addition** |  |  |  |  |  |  |  |  |  |  |
| 2.a. | Value addition | 1 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 5 | 5 |
| 2.b. | Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **3.** | **Livestock and fisheries** |  |  |  |  |  |  |  |  |  |  |
| 3.a. | Dairy farming |  |  |  |  |  |  |  |  |  |  |
| 3.b. | Composite fish culture |  |  |  |  |  |  |  |  |  |  |
| 3.c. | Sheep and goat rearing |  |  |  |  |  |  |  |  |  |  |
| 3.d. | Piggery |  |  |  |  |  |  |  |  |  |  |
| 3.e. | Poultry farming |  |  |  |  |  |  |  |  |  |  |
| 3.f. | Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **4.** | **Income generation activities** |  |  |  |  |  |  |  |  |  |  |
| 4.a. | Vermi-composting |  |  |  |  |  |  |  |  |  |  |
| 4.b. | Production of bio-agents, bio-pesticides,  bio-fertilizers etc. |  |  |  |  |  |  |  |  |  |  |
| 4.c. | Repair and maintenance of farm machinery  and implements |  |  |  |  |  |  |  |  |  |  |
| 4.d. | Rural Crafts |  |  |  |  |  |  |  |  |  |  |
| 4.e. | Seed production |  |  |  |  |  |  |  |  |  |  |
| 4.f. | Sericulture |  |  |  |  |  |  |  |  |  |  |
| 4.g. | Mushroom cultivation | 1 | 0 | 7 | 7 | 0 | 3 | 3 | 0 | 10 | 10 |
| 4.h. | Nursery, grafting etc. | 1 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 5 | 5 |
| 4.i. | Tailoring, stitching, embroidery, dying etc. |  |  |  |  |  |  |  |  |  |  |
| 4.j. | Agril. para-workers, para-vet training |  |  |  |  |  |  |  |  |  |  |
| 4.k. | Others (Fabric and bouquet making) | 2 | 0 | 35 | 35 | 0 | 15 | 15 | 0 | 50 | 50 |
| **5** | **Agricultural Extension** |  |  |  |  |  |  |  |  |  |  |
| 5.a. | Capacity building and group dynamics |  |  |  |  |  |  |  |  |  |  |
| 5.b. | Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
|  | **Grand Total** | **5** | **0** | **52** | **52** | **0** | **18** | **18** | **0** | **70** | **70** |

**PART VIII – EXTENSION ACTIVITIES**

**Extension Programmes (including activities of 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 | 14 | 48 | 13 | 61 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kisan Mela |  |  |  |  |  |  |  |  |  |  |
| Kisan Ghosthi |  |  |  |  |  |  |  |  |  |  |
| Exhibition |  |  |  |  |  |  |  |  |  |  |
| Film Show |  |  |  |  |  |  |  |  |  |  |
| Method Demonstrations |  |  |  |  |  |  |  |  |  |  |
| Farmers Seminar |  |  |  |  |  |  |  |  |  |  |
| Workshop |  |  |  |  |  |  |  |  |  |  |
| Group meetings |  |  |  |  |  |  |  |  |  |  |
| Lectures delivered as resource persons |  |  |  |  |  |  |  |  |  |  |
| Newspaper coverage |  |  |  |  |  |  |  |  |  |  |
| Radio talks |  |  |  |  |  |  |  |  |  |  |
| TV talks |  |  |  |  |  |  |  |  |  |  |
| Popular articles |  |  |  |  |  |  |  |  |  |  |
| Extension Literature |  |  |  |  |  |  |  |  |  |  |
| Advisory Services | 73 | 47 | 32 | 82 | 0 | 0 | 0 | 10 | 10 | 20 |
| Scientific visit to farmers field | 18 | 0 | 0 | 82 | 0 | 0 | 0 | 0 | 0 | 0 |
| Farmers visit to KVK | 95 | 326 | 409 | 735 | 0 | 0 | 0 | 31 | 25 | 56 |
| Diagnostic visits | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Exposure visits |  |  |  |  |  |  |  |  |  |  |
| Ex-trainees Sammelan |  |  |  |  |  |  |  |  |  |  |
| Soil health Camp |  |  |  |  |  |  |  |  |  |  |
| Animal Health Camp |  |  |  |  |  |  |  |  |  |  |
| Agri mobile clinic |  |  |  |  |  |  |  |  |  |  |
| Soil test campaigns |  |  |  |  |  |  |  |  |  |  |
| Farm Science Club Conveners meet |  |  |  |  |  |  |  |  |  |  |
| Self Help Group Conveners meetings |  |  |  |  |  |  |  |  |  |  |
| Mahila Mandals Conveners meetings |  |  |  |  |  |  |  |  |  |  |
| Celebration of important days (specify) |  |  |  |  |  |  |  |  |  |  |
| Any Other (Specify) |  |  |  |  |  |  |  |  |  |  |
| **Total** | **201** | **422** | **454** | **961** | **0** | **0** | **0** | **41** | **35** | **76** |

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

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Crop category | **Name of the crop** | **Variety** | **Hybrid** | **Quantity of seed**  **(qtl)** | **Value**  **(Rs)** | **Number of farmers to whom provided** |
| Vegetables | Capsicum | INDAM Mahabharath | F1 | 163 pkts. | 1630 | 105 |
| Carrot | Improved Kuroda | - | 78 pkts. | 1560 | 50 |
| Beetroot | Action | F1 | 77 pkts. | 1540 | 60 |
| Beans | Local | - | 190 pkts. | 1900 | 100 |
| Greens | CO-1 | - | 72 pkts. | 720 | 70 |
| Cowpea | Local | - | 82 pkts. | 820 | 75 |
| Brinjal | INDAM Green Round | F1 | 10 pkts. | 200 | 10 |
| Cabbage | Maharani | F1 | 35 pkts. | 700 | 25 |
| Cauliflower | INDAM-9803 | F1 | 30 pkts. | 600 | 28 |
| Chilly | INDAM-42 | F1 | 15 pkts. | 300 | 10 |
| Spices | Pepper | Panniyoor-1 | - | 31 | 186 | 20 |
| Panniyoor-4 | - | 90 | 540 | 60 |
| Panniyoor-6 | - | 55 | 330 | 40 |
| Panniyoor-7 | - | 210 | 1260 | 100 |
| Pournami | - | 105 | 630 | 55 |
| Panchami | - | 122 | 732 | 62 |
| Sreekara | - | 74 | 444 | 50 |
| Subhakara | - | 60 | 360 | 40 |
| Malabar Excel | - | 255 | 1530 | 60 |
| Thevam | - | 52 | 312 | 22 |
| Sakthi | - | 70 | 420 | 35 |
| Chengannoor | - | 220 | 440 | 102 |
| Karimunda | - | 410 | 820 | 110 |
| **Others** | Cardamom dry | - | - | 600g | 600 | 1 |
|  | Vanilla | - | - | 1 pkt. | 50 | 1 |
|  | Stevia powder | - | - | 1 pkt. | 150 | 1 |
|  | Ramacham scrub | - | - | 3 Nos. | 45 | 1 |
|  | Edible mushroom | CO-1 & Florida | - | 42.50 kg | 5231.15 | 21 |
|  | Mushroom bed | CO-1 | - | 4 Nos. | 210 | 4 |
|  | Tomato | Local | - | 50 kg | 500 | 40 |
|  | Cabbage | Maharani | F1 | 60 kg | 1200 | 40 |
|  | Garden Beans | Local | - | 30 kg | 900 | 20 |
|  | Cauliflower | INDAM-9803 | F1 | 3 kg | 60 | 3 |
|  | Cowpea | - | - | 25 kg | 750 | 20 |
|  | Carrot | Improved Kuroda | - | 5 kg | 100 | 10 |
|  | Beetroot | Action | - | 8 kg | 160 | 16 |
|  | Capsicum | INDAM Mahabharath | - | 40 kg | 2400 | 80 |
|  | Orange – Garden fresh | - | - | 5 kg | 100 | 10 |
|  | Jam | - | - | 20 pkts. | 240 | 20 |
|  | Squash | - | - | 4 bottle | 80 | 4 |
|  | Sauce | - | - | 5 pkts. | 50 | 5 |
|  | Dessert wine | - | - | 26 bottle | 1560 | 25 |
|  | Sip up | - | - | 189 Nos. | 407.50 | 164 |
|  | Herbal soap | - | - | 2 Nos. | 130 | 2 |
|  | Banana | Robusta | - | 41 kg | 410 | 20 |
|  | White pepper | - | - | 4 pkts. | 440 | 4 |
|  | Soap kit | - | - | 23 kits. | 1245 | 15 |
|  | Detergent powder kit | - | - | 14 kits | 2800 | 14 |
|  | Cleaning lotion kit | - | - | 1 No. | 150 | 1 |
|  | Soap powder | - | - | 72 kg | 3600 | 50 |
|  | Cleaning lotion | - | - | 351.5 litres | 7225 | 90 |
|  | Liquid soap | - | - | 294.6 litres | 11630.50 | 60 |
| **Total** |  |  |  |  | **60398.15** |  |

# 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** |
| Ornamental plants | Begonia | - | - | 5 | 125 | 5 |
| Croton | - | - | 19 | 190 | 10 |
| Bougainvillea | - | - | 2 | 20 | 2 |
| Jasmine | - | - | 3 | 30 | 3 |
| Strawberry | - | - | 3 | 30 | 1 |
| Dianthus | - | - | 135 | 2025 | 110 |
| Euphorbia | - | - | 22 | 1050 | 20 |
| Balsam | - | - | 45 | 450 | 15 |
| Shoe flower | - | - | 23 | 230 | 10 |
| Chendumulla | - | - | 4 | 240 | 4 |
|  | Anthurium | - | - | 9 | 875 | 2 |
| Petunia | - | - | 2 | 20 | 2 |
| Gomphrena | - | - | 6 | 30 | 2 |
| Peperomia | - | - | 4 | 100 | 2 |
| Poinsettia | - | - | 2 | 50 | 1 |
| Coleus | - | - | 4 | 320 | 2 |
| Azelia | - | - | 2 | 30 | 1 |
| Medicinal and Aromatic | Aloevera | - | - | 108 | 2570 | 102 |
| Spices | Cardamom tillers | PV-2 | - | 20 | 800 | 2 |
| Njallani | - | 10 | 350 | 1 |
| White Bold | - | 3 | 120 | 1 |
| **Total** |  |  |  |  | **9655** |  |

**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 |  |  |  |  |
| Bio-fungicide | Pseudomonas | 351.63 litres | 28260.40 | 102 |
| Trichoderma | 67 litres | 5360.00 | 32 |
| Bio Agents |  |  |  |  |
| Others (specify) | Mushroom spawn | 1327 pkts. | 32820.00 | 515 |
| Earthworms | 40 kg | 12000.00 | 60 |
| **Total** |  |  | **78440.40** |  |

# 9.D. Production of livestock materials: Nil

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

**DROUGHT MITIGATION**

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

**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).**

**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***

* Training need analysis done at village level.
* Interactive sessions during field visits.

***Rural Youth***

* Interactive sessions conducted in the major Higher Secondary Schools in this block.

***In-service personnel***

* Training need analysis done at district level.

**10.G. Field activities**

i. Number of villages adopted: 5

ii. No. of farm families selected: 30

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 : 2005-2006

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 | 671 | 356 | 85 | 30610 |
| Water Samples | 0 | 0 | 0 | 0 |
| Plant samples | 0 | 0 | 0 | 0 |
| Manure samples | 1 | 1 | 1 | 50 |
| Others (specify) | 0 | 0 | 0 | 0 |
| Total | 672 | 357 | 86 | 30660 |

Details of samples analyzed during the 2010-11:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages | Amount realized (Rs.) |
| Soil Samples | 52 | 19 | 15 | 2600 |
| Water Samples | 1 | 1 | 1 | 50 |
| Plant samples | 0 | 0 | 0 | 0 |
| Manure samples | 0 | 0 | 0 | 0 |
| Others (specify) | 0 | 0 | 0 | 0 |
| Total | 53 | 20 | 16 | 2650 |

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

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

**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)** |
| Synchronization of estrus in dairy animals | 20 | 65 | 9000 | 15000 |
| Scientific Mushroom cultivation | 18 | 67 | - | 6000 |

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** |
| Dept. of Agriculture, Govt. of Kerala | Joint diagnostic surveys, joint implementation, participation in meeting, Conducting training programmes etc. In service training of Agricultural Officers and Agri. Assistants, Scientists of KVK serves as resource persons for farmers training programmes organized by Agri. Dept. |
| Dept. of Animal husbandry, Govt. of Kerala | Animal husbandry camps, participation in meeting conducting training programmes etc. |
| Kerala Agricultural University | Collection of planting material of crops for the KVK nursery and supply of planting material on demand, Technical advice towards the planning and implementation of OFTs and FLDs |
| NABARD | Project formulation and submission. |
| Integrated Child Development Scheme (ICDS) | Organizing health, nutrition and childcare programmes participating in farm video programme, Radio talks etc. for extension workers of Social welfare Department. |
| All India Radio | Participating in farm video programmes, Radio talks announcement of training programmes and other activities of KVK. |
| Spices Board | Conducting training programmes in Agriculture and organizing spice clinics, Seminars, demonstration classes and field visits planting material for OFT programme were procured from spices Board Nursery. |
| ICRI, Myladumpara | Training programmes, Training materials, field visits, and technical consultation |
| Grama Panchayath of the District | Joint conduct of extension activities, participation in meetings and conducting training programmes. Women Cell of KVK imparted training programmes for SHG groups in collaboration with District Grama Panchayath. Technical staffs are members of various working groups to evaluate 11th Five Year Plan. |
| Block Development Office, Nedumkandam, Devikulam | Training to Farmers and farmwomen. |
| Kerala Agri. University Regional Research Station | Technical Support for the implementation of various programme |
| National Literacy mission | Organizing farm information centres through Jana Vidhya Kendras |
| Planning Board | Conduct of OFT and FLD on Paddy. |
| Directorate of extension Govt. of India | Implementation of Central Sector Scheme of Agricultural extension through Voluntary organization |
| Cardamom Research Station, Pampadumpara | Technical consultancy supply of recently released Cardamom variety PV1 and PV2 to Germplasm collection of KVK and Field visit. |
| Principal Agricultural Office Idukki | Programme Coordinator of KVK as a member of District Nodal Agency of NWDPRA under the Principal Agricultural Office, Idukki |
| Dairy Development Department | Procurement of planting materials for Frontline Demonstration programme. |
| Grama Panchayath, Santhanpara | Training Organizer is the vice-Chairman of working Group on Agriculture as a part of Kerala Development programme conduct of trainings etc. |
| Society for Orientation and Rural Development | Conduct of Seminar in different parts of Idukki district |
| Kudumbasree | Trainings to Kudumbasree Members |
| Vocational Higher Secondary Education, Directorate | OJT to V.H.S.E. 2nd year students and orientation courses to 1st year students. |
| ATMA | Management Committee and governing board meeting. Preparation and conduct of OFT and FLD. |
| High Range Development Society | Trainings. |
| Union Bank of India (Union RSETI) | Trainings |
| Akshaya Charitable Society | Trainings |
| Directorate of Extension, Ministry of Agriculture, Govt. of India | Implementing agency for Central Sector Scheme on Agricultural extension. |
| Schools | Trainings. |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of the scheme** | **Date/ Month of initiation** | **Funding agency** | **Amount (Rs.)** |
| Training on Organic farming | February 2011 | Department of Agriculture | 77000.00 |

**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?

**Coordination activities between KVK and ATMA during 2010-11**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Programme** | **Particulars** | **No. of programmes attended by KVK staff** | **No. of programmes Organized by KVK** | **Other remarks (if any)** |
| **01** | **Meetings** | Working committee meeting | 7 | - | - |
| **02** | **Research projects** |  |  |  |  |
|  |  |  |  |  |  |
| **03** | **Training programmes** |  |  |  |  |
|  |  |  |  |  |  |
| **04** | **Demonstrations** |  |  |  |  |
|  |  |  |  |  |  |
| **05** | **Extension Programmes** |  |  |  |  |
|  | Kisan Mela |  |  |  |  |
|  | Technology Week |  |  |  |  |
|  | Exposure visit | Visit to TNAU & Nilgris KVK | 2 | - | - |
|  | 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 |  |  |  |  |
|  | Selection of Best Farmer entrepreneur in the district | Assessment & selection | 1 | - | - |

**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 unit | 2002 | 10 m2 | Oyster mushroom var. CO1 | Mushroom | 57.55 Kg | 1,000.00 | 5,755.00 | - |
| 2 | Spawn production unit | 2009 | 10 m2 | Var.CO1, CO2, Florida | Spawn | 2340 pkts. | 10,132.20 | 46,950.00 | Funded by SHM |
| 3 | Mist chamber | 2009 | 96 m2 | Sreekara  Subhakara  Panchami  Pournami | Pepper vines | 6486 | 7,000.00 | 15,639.00 | Funded by SHM |
| 4 | Rain shelter | 2009 | 50 m2 | - | Ornamental plants | 294 | 2,500.00 | 6,993.50 | Funded by SHM |
| 5 | Terrace Vegetable cultivation | 2010 | 170 m2 | Local | Tomato | 331 kg | 3274.70 | 6070.00 | Revolving fund |
| Maharani | Cabbage |
| Local | Garden Beans |
| INDAM-9803 | Cauliflower |
| - | Cowpea |
| Improved Kuroda | Carrot |
| Action | Beetroot |
| INDAM Mahabharath | Capsicum |

**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 | 351.63 litres | 15823.35 | 28260.40 |  |
| 2. | Trichoderma | 67 litres | 2345.00 | 5360.00 |  |
| 3. | Earthworms | 40 kg | 5000.00 | 12000.00 |  |

**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 | Japanese quail | *Nandanam* | Meat & egg | - | - | - | Production not yet started |

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

**13. Database management**

|  |  |  |
| --- | --- | --- |
| **S. No** | **Database target** | **Database created** |
| **1.** | **In progress (financial year 2011-12)** |  |

**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** |
| With Host Institute | State Bank of Travancore | Rajakumari | 2018 | Chairman | 57060837003 | - | SBTR0000453 |
| With KVK | State Bank of Travancore | Rajakumari | 2018 | Chairman & Programme Coordinator | 57060836995 | - | SBTR0000453 |
| District Cooperative Bank | Santhanpara | - | KVK Revolving Fund | 3754 | - | - |

**14.B. Utilization of funds under FLD on Cotton *(Rs. in Lakh)*:** Nil

**14.C. Utilization of KVK funds during the year 2010-11 (Rs. in lakh)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.**  **No.** | **Particulars** | **Sanctioned** | **Released** | **Expenditure** |
| **A. Recurring Contingencies** | | | | |
| 1 | **Pay & Allowances** | 86.69 | 86.69 | 76.58 |
| 2 | **Traveling allowances** | 1.25 | 1.25 | 1.25 |
| 3 | **Contingencies** | | | |
| *A* | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 2.40 | 2.40 | 2.40 |
| *B* | POL, repair of vehicles, tractor and equipments | 1.40 | 1.40 | 1.40 |
| *C* | Meals/refreshment for trainees (ceiling up to Rs.40/day/trainee be maintained) | 0.85 | 0.85 | 0.85 |
| *D* | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | 0.45 | 0.45 | 0.45 |
| *E* | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | 1.75 | 1.75 | 1.75 |
| *F* | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | 0.80 | 0.80 | 0.80 |
| *G* | Training of extension functionaries | 0.25 | 0.25 | 0.25 |
| *H* | Maintenance of buildings | 0.50 | 0.50 | 0.50 |
| *I* | Establishment of Soil, Plant & Water Testing Laboratory | 0.00 | 0.00 | 0.00 |
| *J* | Library | 0.05 | 0.05 | 0.05 |
| *K* | Farmers Field School | 0.25 | 0.25 | 0.25 |
| *L* | Extension activities | 0.30 | 0.30 | 0.30 |
| **TOTAL (A)** | | **96.94** | **96.94** | **86.83** |
| **B. Non-Recurring Contingencies** | | | | |
| 1 | **Works** | 0.00 | 0.00 | 0.00 |
| 2 | **Equipments including SWTL & Furniture** | 3.70 | 3.70 | 3.70 |
| 3 | **Vehicle** (Four wheeler/Two wheeler, please specify) | 0.00 | 0.00 | 0.00 |
| 4 | **Library** (Purchase of assets like books & journals) | 0.10 | 0.10 | 0.10 |
| **TOTAL (B)** | | **3.80** | **3.80** | **3.80** |
| **C. REVOLVING FUND** | | **-** | **-** | **-** |
| **GRAND TOTAL (A+B+C)** | | **100.74** | **100.74** | **90.63** |

**14.D. 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 2008 to March 2009 | 68,826.00 | 7,80,337.00 | 3,84,964.00 | 4,57,150.00 |
| April 2009 to March 2010 | 4,57,150.00 | 6,36,699.00 | 5,49,636.00 | 5,44,498.00 |
| April 2010 to March 2011 | 5,44,498.00 | 3,74,483.00 | 6,13,997.00 | 3,04,982.00 |

**15. Details of HRD activities attended by KVK staff during 2010-11**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of the staff** | **Designation** | Title of the training programme | Institute where attended | Dates |
| Dr. S. Jayababu | Programme Coordinator i/c. | National Consultation Workshop | PDBC, Bangalore | 29th & 30th October 2010 |
| Jayisy Joseph  &  Biju Narayanan | Programme Assistant (Home Science)  Programme Assistant (Computer) | National Workshop on Public Private Partnership for enhancing Agricultural Extension Services | Horticultural College, KAU, Thrissur | 10th November 2010 |
| Dr. S. Jayababu | Programme Coordinator i/c. | IFS Training | KVK, Kattupakkam, TANUVAS | 9th -13th November 2010 |
| Dr. S. Jayababu | Programme Coordinator i/c. | Orientation training | CTCRI, Trivandrum | 14th & 15th December 2010 |
| Dr. Benjamin Mathew | Subject Matter Specialist (Agri. Extension) | Training on Precision farming | KVK Malappuram, Tavanur | 1st February 2011 |
| Sudhakar | Subject Matter Specialist (Plant Protection) | Executive Intervention Interaction | KAU, Thrissur | 25th & 26th March 2011 |

**16. Please include any other important and relevant information which has not been reflected above:** Nil**.**

**SUMMARY FOR 2010-11**

# I. TECHNOLOGY ASSESSMENT

**Summary of technologies assessed under various crops**

|  |  |  |  |
| --- | --- | --- | --- |
| **Thematic areas** | **Crop** | **Name of the technology assessed** | **No. of trials** |
| Integrated Nutrient Management | Pepper | Efficacy of consortium bio-fertilizers in improving productivity of black pepper | 5 |
|  |  |  |  |
| Varietal Evaluation | Turmeric | Assessing the suitability of turmeric varieties Pratibha, Sobha & Varna under High Range conditions | 4 |
| Integrated Pest Management |  |  |  |
|  |  |  |
| Integrated Crop Management |  |  |  |
|  |  |  |
| Integrated Disease Management |  |  |  |
|  |  |  |
| Small Scale Income Generation Enterprises |  |  |  |
|  |  |  |
| Weed Management |  |  |  |
|  |  |  |
| Resource Conservation Technology |  |  |  |
|  |  |  |
| Farm Machineries |  |  |  |
|  |  |  |
| Integrated Farming System |  |  |  |
|  |  |  |
| Seed / Plant production |  |  |  |
|  |  |  |
| Value addition |  |  |  |
|  |  |  |
| Drudgery Reduction |  |  |  |
|  |  |  |
| Storage Technique |  |  |  |
|  |  |  |
| Others (Pl. specify) |  |  |  |
|  |  |  |
| **Total** | | | **9** |

**Summary of technologies assessed under livestock**

|  |  |  |  |
| --- | --- | --- | --- |
| **Thematic areas** | **Name of the livestock enterprise** | **Name of the technology assessed** | **No. of trials** |
| Disease Management | Dairy cattle | Synchronization of estrus in dairy cows | 10 |
| Evaluation of Breeds | Poultry | Assessing the performance of Gramasree, Gramalakshmi & Rhodo White under high range conditions | 10 |
| Feed and Fodder management |  |  |  |
| Nutrition Management |  |  |  |
| Production and Management | Quail | Assessing the performance of Nandanam variety of quail under high ranges of Idukki | 5 |
| Others (Pl. specify) |  |  |  |
| **Total** | | | **25** |

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

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

# II. TECHNOLOGY REFINEMENT

**Summary of technologies refined under various crops**

|  |  |  |  |
| --- | --- | --- | --- |
| **Thematic areas** | **Crop** | **Name of the technology refined** | **No. of trials** |
| Integrated Nutrient Management | Banana | Nutrient Management of Nendran Banana under the agro-climatic conditions of High Ranges of Idukki | 5 |
| Varietal Evaluation |  |  |  |
| Integrated Pest Management |  |  |  |
|  |  |  |
| Integrated Crop Management |  |  |  |
|  |  |  |
| Integrated Disease Management |  |  |  |
|  |  |  |
| Small Scale Income Generation Enterprises |  |  |  |
|  |  |  |
| Weed Management |  |  |  |
|  |  |  |
| Resource Conservation Technology |  |  |  |
|  |  |  |
| Farm Machineries |  |  |  |
|  |  |  |
| Integrated Farming System |  |  |  |
|  |  |  |
| Seed / Plant production |  |  |  |
|  |  |  |
| Value addition |  |  |  |
|  |  |  |
| Drudgery Reduction |  |  |  |
|  |  |  |
| Storage Technique |  |  |  |
|  |  |  |
| Others (Pl. specify) |  |  |  |
|  |  |  |
| **Total** | | | **5** |

**Summary of technologies assessed under refinement of various livestock:** Nil

**Summary of technologies refined under various enterprises:** Nil

**Summary of technologies refined under home science:** Nil

**III. FRONTLINE DEMONSTRATION**

Cotton: Nil

**Other 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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Paddy | Farm mechanization | Mechanized paddy farming | - | 13 | 5 | 31.4 | 28.7 | 9.4 | - | - | 32,088 | 43,960 | 11872 | 1.37 | 41,854 | 40,180 | - 1674 | 0.96 |
| INM | Integrated Nutrient Management in Paddy | - | 20 | 5 | 29.5 | 28.7 | 1.4 | - | - | 35,120 | 40,740 | 5,620 | 1.16 | 41,854 | 40,180 | -1674 | 0.96 |
| Millets |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Oilseeds |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pulses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Vegetables** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bitter gourd | IPM | Integrated Management of yellowing in bitter gourd | - | 5 | 1 | 20 t/ha | 14 t/ha | 30 | H | A | 16250 | 20320 | 7997 | 1:1.25 | 22450 | 20320 | -2130 | 1:0.90 |
| **Flowers** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Ornamental** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Fruit** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Spices and condiments** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pepper** | Value addition | Mechanized white pepper production | 1 | 1 | 9 | 10 units | - | - | - | - | 12600 | 28500 | 15900 | 2.26 | - | - | - | - |
| **Cardamom** | Crop management | Integrated crop management |  | 30 | 5 | 0.92 | 0.81 | 13.6 | - | - | 392248 | 1012000 | 619752 | 2.58 | 403081 | 850500 | 447419 | 2.11 |
| **Commercial** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Medicinal and aromatic** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Fodder** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Plantation** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Fibre** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Others (pl. specify)** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Sweet potato** | Popularization of improved variety | Demonstration of Gouri variety of sweet potato | 1 | 3 | 0.24 | 2000 | 1352 | 32.40 | - | - | 20000 | 34000 | 14000 | 1.70 | 18000 | 23000 | 5000 | 1.27 |
|  | **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 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dairy cattle | Disease management | | Prophylactic management of mastitis in dairy cows using antiseptic solution in teat cups | - | 20 | 50 animal | Incidence of disease | - | - | Feed intake | - | 4200 | 15000 | 12000 | 3.57 | 3600 | 9000 | 5400 | 2.50 |
| Dairy calves | Disease management | | Management of ecto & endo parasitic infestation in dairy calves | - | 10 | 10 animal | Parasite infestation before and after application | - | - | Weight gain | - | 6000 | 13000 | 7000 | 2.16 | 1500 | 3200 | 1700 | 2.13 |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Poultry |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Rabbitry** |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Piggery** |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **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

**Farmers’ Training 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 | 1 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 5 | 5 |
| Integrated Crop Management |  |  |  |  |  |  |  |  |  |  |
| Soil and Water Conservation | 1 | 20 | 0 | 20 | 0 | 0 | 0 | 20 | 0 | 20 |
| Integrated Nutrient Management | 1 | 18 | 0 | 18 | 0 | 0 | 0 | 18 | 0 | 18 |
| 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 | 1 | 0 | 18 | 18 | 0 | 0 | 0 | 0 | 18 | 18 |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **b) Fruits** |  |  |  |  |  |  |  |  |  |  |
| Training and Pruning |  |  |  |  |  |  |  |  |  |  |
| Layout and Management of Orchards |  |  |  |  |  |  |  |  |  |  |
| Cultivation of Fruit |  |  |  |  |  |  |  |  |  |  |
| Management of young plants/orchards |  |  |  |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  |  |  |  |  |  |  |  |  |
| Export potential fruits |  |  |  |  |  |  |  |  |  |  |
| Micro irrigation systems of orchards |  |  |  |  |  |  |  |  |  |  |
| Plant propagation techniques |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **c) Ornamental Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery Management | 1 | 3 | 18 | 21 | 0 | 0 | 0 | 3 | 18 | 21 |
| 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 | 1 | 41 | 0 | 41 | 0 | 0 | 0 | 41 | 0 | 41 |
| Integrated water management |  |  |  |  |  |  |  |  |  |  |
| Integrated nutrient management |  |  |  |  |  |  |  |  |  |  |
| Production and use of organic inputs | 1 | 32 | 14 | 46 | 0 | 0 | 0 | 32 | 14 | 46 |
| 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 | 1 | 70 | 0 | 70 | 0 | 0 | 0 | 70 | 0 | 70 |
| Poultry Management | 1 | 9 | 14 | 23 | 0 | 0 | 0 | 9 | 14 | 23 |
| Piggery Management |  |  |  |  |  |  |  |  |  |  |
| Rabbit Management |  |  |  |  |  |  |  |  |  |  |
| Animal Nutrition Management | 1 | 3 | 18 | 21 | 0 | 0 | 0 | 3 | 18 | 21 |
| Animal Disease Management | 1 | 30 | 0 | 30 | 0 | 0 | 0 | 30 | 0 | 30 |
| 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 | 1 | 3 | 18 | 21 | 0 | 0 | 0 | 3 | 18 | 21 |
| Designing and development for high nutrient efficiency diet |  |  |  |  |  |  |  |  |  |  |
| Minimization of nutrient loss in processing |  |  |  |  |  |  |  |  |  |  |
| Processing and cooking | 2 | 3 | 20 | 23 | 0 | 0 | 0 | 3 | 20 | 23 |
| Gender mainstreaming through SHGs |  |  |  |  |  |  |  |  |  |  |
| Storage loss minimization techniques |  |  |  |  |  |  |  |  |  |  |
| Value addition | 4 | 13 | 33 | 46 | 0 | 0 | 0 | 13 | 33 | 46 |
| Women empowerment |  |  |  |  |  |  |  |  |  |  |
| Location specific drudgery production |  |  |  |  |  |  |  |  |  |  |
| Rural Crafts | 2 | 2 | 4 | 6 | 0 | 0 | 0 | 2 | 4 | 6 |
| Women and child care |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Agril. Engineering** |  |  |  |  |  |  |  |  |  |  |
| Farm machinery and its maintenance |  |  |  |  |  |  |  |  |  |  |
| Installation and maintenance of micro irrigation systems |  |  |  |  |  |  |  |  |  |  |
| Use of Plastics in farming practices |  |  |  |  |  |  |  |  |  |  |
| Production of small tools and implements |  |  |  |  |  |  |  |  |  |  |
| Repair and maintenance of farm machinery and implements |  |  |  |  |  |  |  |  |  |  |
| Small scale processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Post Harvest Technology |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Plant Protection** |  |  |  |  |  |  |  |  |  |  |
| Integrated Pest Management | 1 | 26 | 10 | 36 | 4 | 0 | 4 | 30 | 10 | 40 |
| Integrated Disease Management |  |  |  |  |  |  |  |  |  |  |
| Bio-control of pests and diseases |  |  |  |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Fisheries** |  |  |  |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing |  |  |  |  |  |  |  |  |  |  |
| Composite fish culture |  |  |  |  |  |  |  |  |  |  |
| Hatchery management and culture of freshwater prawn |  |  |  |  |  |  |  |  |  |  |
| Breeding and culture of ornamental fishes |  |  |  |  |  |  |  |  |  |  |
| Portable plastic carp hatchery |  |  |  |  |  |  |  |  |  |  |
| Pen culture of fish and prawn |  |  |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  |  |  |  |  |  |
| Edible oyster farming |  |  |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  |  |  |  |  |  |
| Fish processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Production of Inputs at site** |  |  |  |  |  |  |  |  |  |  |
| Seed Production |  |  |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  |  |  |  |  |  |
| Bio-agents production |  |  |  |  |  |  |  |  |  |  |
| Bio-pesticides production |  |  |  |  |  |  |  |  |  |  |
| Bio-fertilizer production |  |  |  |  |  |  |  |  |  |  |
| Vermi-compost production |  |  |  |  |  |  |  |  |  |  |
| Organic manures production |  |  |  |  |  |  |  |  |  |  |
| Production of fry and fingerlings |  |  |  |  |  |  |  |  |  |  |
| Production of Bee-colonies and wax sheets |  |  |  |  |  |  |  |  |  |  |
| Small tools and implements |  |  |  |  |  |  |  |  |  |  |
| Production of livestock feed and fodder |  |  |  |  |  |  |  |  |  |  |
| Production of Fish feed |  |  |  |  |  |  |  |  |  |  |
| Mushroom production | 6 | 9 | 34 | 43 | 0 | 11 | 11 | 9 | 45 | 54 |
| 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** | **27** | **282** | **206** | **488** | **4** | **11** | **44** | **288** | **217** | **503** |

**Farmers’ Training including sponsored training programmes (Off campus)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | |
| **General** | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| **Crop Production** |  |  |  |  |  |  |  |  |  |  |
| Weed Management |  |  |  |  |  |  |  |  |  |  |
| Resource Conservation Technologies |  |  |  |  |  |  |  |  |  |  |
| Cropping Systems |  |  |  |  |  |  |  |  |  |  |
| Crop Diversification |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming | 2 | 50 | 3 | 53 | 5 | 2 | 7 | 55 | 5 | 60 |
| Micro Irrigation/Irrigation |  |  |  |  |  |  |  |  |  |  |
| Seed production |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Integrated Crop Management | 2 | 40 | 0 | 40 | 4 | 0 | 4 | 44 | 0 | 44 |
| Soil and Water Conservation | 1 | 27 | 7 | 34 | 0 | 0 | 0 | 27 | 7 | 34 |
| 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 | 1 | 6 | 6 | 12 | 3 | 4 | 7 | 9 | 10 | 19 |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **b) Fruits** |  |  |  |  |  |  |  |  |  |  |
| Training and Pruning |  |  |  |  |  |  |  |  |  |  |
| Layout and Management of Orchards |  |  |  |  |  |  |  |  |  |  |
| Cultivation of Fruit |  |  |  |  |  |  |  |  |  |  |
| Management of young plants/orchards |  |  |  |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  |  |  |  |  |  |  |  |  |
| Export potential fruits |  |  |  |  |  |  |  |  |  |  |
| Micro irrigation systems of orchards |  |  |  |  |  |  |  |  |  |  |
| Plant propagation techniques |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **c) Ornamental Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery Management |  |  |  |  |  |  |  |  |  |  |
| Management of potted plants |  |  |  |  |  |  |  |  |  |  |
| Export potential of ornamental plants |  |  |  |  |  |  |  |  |  |  |
| Propagation techniques of Ornamental Plants |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **d) Plantation crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **e) Tuber crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **f) Spices** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **g) Medicinal and Aromatic Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Production and management technology |  |  |  |  |  |  |  |  |  |  |
| Post harvest technology and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Soil Health and Fertility Management** |  |  |  |  |  |  |  |  |  |  |
| Soil fertility management | 1 | 17 | 0 | 17 | 0 | 0 | 0 | 17 | 0 | 17 |
| Integrated water management |  |  |  |  |  |  |  |  |  |  |
| Integrated nutrient management | 1 | 50 | 50 | 100 | 0 | 0 | 0 | 50 | 50 | 100 |
| 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 | 1 | 0 | 18 | 18 | 0 | 0 | 0 | 0 | 18 | 18 |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Livestock Production and Management** |  |  |  |  |  |  |  |  |  |  |
| Dairy Management |  |  |  |  |  |  |  |  |  |  |
| Poultry Management | 1 | 20 | 13 | 33 | 10 | 10 | 20 | 30 | 23 | 53 |
| 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 | 4 | 12 | 4 | 16 | 0 | 0 | 0 | 12 | 4 | 16 |
| Processing and cooking | 2 | 9 | 29 | 38 | 4 | 19 | 23 | 13 | 48 | 61 |
| Gender mainstreaming through SHGs |  |  |  |  |  |  |  |  |  |  |
| Storage loss minimization techniques |  |  |  |  |  |  |  |  |  |  |
| Value addition | 4 | 1 | 25 | 26 | 0 | 0 | 0 | 1 | 25 | 26 |
| Women empowerment |  |  |  |  |  |  |  |  |  |  |
| Location specific drudgery production |  |  |  |  |  |  |  |  |  |  |
| Rural Crafts | 5 | 0 | 20 | 20 | 0 | 5 | 5 | 0 | 25 | 25 |
| Women and child care |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Agril. Engineering** |  |  |  |  |  |  |  |  |  |  |
| Farm machinery and its maintenance |  |  |  |  |  |  |  |  |  |  |
| Installation and maintenance of micro irrigation systems |  |  |  |  |  |  |  |  |  |  |
| Use of Plastics in farming practices |  |  |  |  |  |  |  |  |  |  |
| Production of small tools and implements |  |  |  |  |  |  |  |  |  |  |
| Repair and maintenance of farm machinery and implements |  |  |  |  |  |  |  |  |  |  |
| Small scale processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Post Harvest Technology |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Plant Protection** |  |  |  |  |  |  |  |  |  |  |
| Integrated Pest Management | 1 | 0 | 14 | 14 | 0 | 0 | 0 | 0 | 14 | 14 |
| Integrated Disease Management | 1 | 35 | 0 | 35 | 0 | 0 | 0 | 35 | 0 | 35 |
| Bio-control of pests and diseases | 1 | 44 | 0 | 44 | 0 | 0 | 0 | 44 | 0 | 44 |
| 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 | 1 | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 25 |
| 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 | 1 | 7 | 8 | 0 | 3 | 3 | 1 | 10 | 11 |
| Apiculture | 3 | 78 | 8 | 86 | 0 | 0 | 0 | 78 | 8 | 86 |
| 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** | **33** | **415** | **204** | **619** | **26** | **43** | **69** | **441** | **247** | **688** |

**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 | 1 | 12 | | 19 | | 31 | | 1 | | 1 | | 2 | | 13 | | 20 | | 33 |
| Bee-keeping |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Sericulture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Repair and maintenance of farm machinery and implements |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Value addition | 2 | 40 | | 36 | | 76 | | 1 | | 1 | | 2 | | 41 | | 37 | | 78 |
| Small scale processing |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Post Harvest Technology | 1 | 0 | | 25 | | 25 | 0 | | 1 | | 1 | | 0 | | 26 | | 26 | |
| Tailoring and Stitching | 1 | 0 | | 26 | | 26 | 0 | | 1 | | 1 | | 0 | | 27 | | 27 | |
| Rural Crafts | 11 | 9 | | 29 | | 38 | 1 | | 10 | | 11 | | 10 | | 39 | | 49 | |
| Production of quality animal products |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Dairying | 3 | 61 | | 43 | | 104 | | 0 | | 20 | | 20 | | 61 | | 63 | | 124 |
| 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** | **19** | **122** | | **178** | | **300** | **3** | | **34** | | **37** | | **125** | | **212** | | **337** | |

**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 | 17 | | 24 | | 41 | | 3 | | 1 | | 4 | | 20 | | 25 | | 45 |
| Small scale processing |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Post Harvest Technology | 2 | 0 | | 15 | | 15 | 0 | | 0 | | 0 | | 0 | | 15 | | 15 | |
| Tailoring and Stitching |  |  | |  | |  |  | |  | |  | |  | |  | |  | |
| Rural Crafts |  |  | |  | |  |  | |  | |  | |  | |  | |  | |
| Production of quality animal products |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Dairying |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Sheep and goat rearing |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Quail farming |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Piggery |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Rabbit farming |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Poultry production |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Ornamental fisheries |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Composite fish culture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Freshwater prawn culture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Shrimp farming |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Pearl culture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Cold water fisheries |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Fish harvest and processing technology |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Fry and fingerling rearing |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Any other (pl. specify) |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| **TOTAL** | **3** | **17** | | **39** | | **56** | **3** | | **1** | | **4** | | **20** | | **40** | | **60** | |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | | | |
| **General** | | | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | | **Total** | | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| Productivity enhancement in field crops |  |  | |  | |  |  |  |  |  |  |  |
| Integrated Pest Management |  |  | |  | |  |  |  |  |  |  |  |
| Integrated Nutrient management |  |  | |  | |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  | |  | |  |  |  |  |  |  |  |
| Protected cultivation technology |  |  | |  | |  |  |  |  |  |  |  |
| Production and use of organic inputs |  |  | |  | |  |  |  |  |  |  |  |
| Care and maintenance of farm machinery and implements |  |  | |  | |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  | |  | |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  | |  | |  |  |  |  |  |  |  |
| Women and Child care |  |  | |  | |  |  |  |  |  |  |  |
| Low cost and nutrient efficient diet designing | 1 | 31 | | 43 | | 74 | 0 | 1 | 1 | 31 | 44 | 75 |
| Group Dynamics and farmers organization |  |  | |  | |  |  |  |  |  |  |  |
| Information networking among farmers |  |  | |  | |  |  |  |  |  |  |  |
| Capacity building for ICT application |  |  | |  | |  |  |  |  |  |  |  |
| Management in farm animals |  |  | |  | |  |  |  |  |  |  |  |
| Livestock feed and fodder production |  |  | |  | |  |  |  |  |  |  |  |
| Household food security |  |  | |  | |  |  |  |  |  |  |  |
| Any other (pl. specify) |  |  | |  | |  |  |  |  |  |  |  |
| **Total** | **1** | **31** | | **43** | | **74** | **0** | **1** | **1** | **31** | **44** | **75** |

**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 | 3 | 72 | 78 | 150 | 4 | 0 | 4 | 76 | 78 | 154 |
| 1.b. | Commercial production of vegetables | 2 | 6 | 24 | 30 | 3 | 4 | 7 | 9 | 28 | 37 |
| **2** | **Production and value addition** |  |  |  |  |  |  |  |  |  |  |
| 2.a. | Fruit Plants | 2 | 0 | 32 | 30 | 0 | 0 | 0 | 0 | 35 | 35 |
| 2.b. | Ornamental plants |  |  |  |  |  |  |  |  |  |  |
| 2.c. | Spices crops | 1 | 35 | 0 | 35 | 0 | 0 | 0 | 35 | 0 | 35 |
| **3.** | **Soil health and fertility management** | 3 | 27 | 32 | 59 | 0 | 0 | 0 | 27 | 32 | 59 |
| **4** | **Production of Inputs at site** |  |  |  |  |  |  |  |  |  |  |
| **5** | **Methods of protective cultivation** | 3 | 36 | 60 | 96 | 4 | 0 | 4 | 40 | 60 | 100 |
| **6** | **Others (pl. specify)** | 1 | 0 | 25 | 25 | 0 | 0 | 0 | 0 | 25 | 25 |
| **7** | **Post harvest technology and value addition** |  |  |  |  |  |  |  |  |  |  |
| 7.a. | Processing and value addition | 3 | 53 | 34 | 87 | 4 | 19 | 23 | 57 | 53 | 110 |
| 7.b. | Others (pl. specify) | 3 | 58 | 68 | 126 | 0 | 0 | 0 | 58 | 68 | 126 |
| **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 | 1 | 41 | 0 | 41 | 0 | 0 | 0 | 41 | 0 | 41 |
| 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 | 2 | 4 | 31 | 35 | 0 | 0 | 0 | 4 | 31 | 35 |
| 11.b. | Economic empowerment of women | 1 | 3 | 18 | 21 | 0 | 0 | 0 | 3 | 18 | 21 |
| 11.c. | Drudgery reduction of women | 2 | 0 | 29 | 29 | 0 | 0 | 0 | 0 | 29 | 29 |
| 11.d. | Others (pl. specify) | 1 | 13 | 35 | 48 | 0 | 0 | 0 | 13 | 35 | 48 |
| **12** | **Agricultural Extension** |  |  |  |  |  |  |  |  |  |  |
| 12.a. | Capacity Building and Group Dynamics |  |  |  |  |  |  |  |  |  |  |
| 12.b. | Others (pl. specify) | 1 | 18 | 0 | 18 | 0 | 0 | 0 | 18 | 0 | 18 |
|  | **Total** | **29** | **336** | **466** | **832** | **15** | **23** | **38** | **381** | **489** | **870** |

**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) |  |  |  |  |  |  |  |  |  |  |
| **2** | **Post harvest technology and value addition** |  |  |  |  |  |  |  |  |  |  |
| 2.a. | Value addition | 1 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 5 | 5 |
| 2.b. | Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **3.** | **Livestock and fisheries** |  |  |  |  |  |  |  |  |  |  |
| 3.a. | Dairy farming |  |  |  |  |  |  |  |  |  |  |
| 3.b. | Composite fish culture |  |  |  |  |  |  |  |  |  |  |
| 3.c. | Sheep and goat rearing |  |  |  |  |  |  |  |  |  |  |
| 3.d. | Piggery |  |  |  |  |  |  |  |  |  |  |
| 3.e. | Poultry farming |  |  |  |  |  |  |  |  |  |  |
| 3.f. | Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **4.** | **Income generation activities** |  |  |  |  |  |  |  |  |  |  |
| 4.a. | Vermi-composting |  |  |  |  |  |  |  |  |  |  |
| 4.b. | Production of bio-agents, bio-pesticides,  bio-fertilizers etc. |  |  |  |  |  |  |  |  |  |  |
| 4.c. | Repair and maintenance of farm machinery  and implements |  |  |  |  |  |  |  |  |  |  |
| 4.d. | Rural Crafts |  |  |  |  |  |  |  |  |  |  |
| 4.e. | Seed production |  |  |  |  |  |  |  |  |  |  |
| 4.f. | Sericulture |  |  |  |  |  |  |  |  |  |  |
| 4.g. | Mushroom cultivation | 1 | 0 | 7 | 7 | 0 | 3 | 3 | 0 | 10 | 10 |
| 4.h. | Nursery, grafting etc. | 1 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 5 | 5 |
| 4.i. | Tailoring, stitching, embroidery, dying etc. |  |  |  |  |  |  |  |  |  |  |
| 4.j. | Agril. para-workers, para-vet training |  |  |  |  |  |  |  |  |  |  |
| 4.k. | Others (Fabric and bouquet) | 2 | 0 | 35 | 35 | 0 | 15 | 15 | 0 | 50 | 50 |
| **5** | **Agricultural Extension** |  |  |  |  |  |  |  |  |  |  |
| 5.a. | Capacity building and group dynamics |  |  |  |  |  |  |  |  |  |  |
| 5.b. | Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
|  | **Grand Total** | **5** | **0** | **52** | **52** | **0** | **18** | **18** | **0** | **70** | **70** |

V. Extension Programmes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activities** | **No. of programmes** | **No. of farmers** | **No. of Extension Personnel** | **TOTAL** |
| Advisory Services | 86 | 93 | 22 | 115 |
| Diagnostic visits | 1 | 1 | 0 | 1 |
| Field Day | 14 | 61 | 0 | 61 |
| Group discussions |  |  |  |  |
| Kisan Ghosthi |  |  |  |  |
| Film Show |  |  |  |  |
| Self -help groups |  |  |  |  |
| Kisan Mela |  |  |  |  |
| Exhibition |  |  |  |  |
| Scientists' visit to farmers field | 18 | 82 | 0 | 82 |
| Plant/animal health camps |  |  |  |  |
| Farm Science Club |  |  |  |  |
| Ex-trainees Sammelan |  |  |  |  |
| Farmers' seminar/workshop | 95 | 735 | 56 | 791 |
| Method Demonstrations |  |  |  |  |
| Celebration of important days |  |  |  |  |
| Special day celebration |  |  |  |  |
| Exposure visits |  |  |  |  |
| Others (pl. specify) |  |  |  |  |
| **Total** | **201** | **961** | **76** | **1037** |

Details of other extension programmes: Nil

**PRODUCTION OF SEED/PLANTING MATERIAL**

**Production of seeds by the KVKs**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Crop category | **Name of the crop** | **Name of the variety**  **(if hybrid pl. specify)** | **Quantity of seed**  **(q)** | **Value**  **(Rs)** | **Number of farmers** |
| Cereals |  |  |  |  |  |
| Oilseeds |  |  |  |  |  |
| Pulses |  |  |  |  |  |
| Commercial crops |  |  |  |  |  |
| Vegetables | Capsicum | INDAM Mahabharath | 163 pkts. | 1630 | 105 |
| Carrot | Improved Kuroda | 78 pkts. | 1560 | 50 |
| Beetroot | Action | 77 pkts. | 1540 | 60 |
| Beans | Local | 190 pkts. | 1900 | 100 |
| Greens | CO-1 | 72 pkts. | 720 | 70 |
| Cowpea | Local | 82 pkts. | 820 | 75 |
| Brinjal | INDAM Green Round | 10 pkts. | 200 | 10 |
| Cabbage | Maharani | 35 pkts. | 700 | 25 |
| Cauliflower | INDAM-9803 | 30 pkts. | 600 | 28 |
| Chilly | INDAM-42 | 15 pkts. | 300 | 10 |
| Flower crops |  |  |  |  |  |
| Spices | Pepper | Panniyoor-1 | 31 | 186 | 20 |
| Panniyoor-4 | 90 | 540 | 60 |
| Panniyoor-6 | 55 | 330 | 40 |
| Panniyoor-7 | 210 | 1260 | 100 |
| Pournami | 105 | 630 | 55 |
| Panchami | 122 | 732 | 62 |
| Sreekara | 74 | 444 | 50 |
| Subhakara | 60 | 360 | 40 |
| Malabar Excel | 255 | 1530 | 60 |
| Thevam | 52 | 312 | 22 |
| Sakthi | 70 | 420 | 35 |
| Chengannoor | 220 | 440 | 102 |
| Karimunda | 410 | 820 | 110 |
| Fodder crop seeds |  |  |  |  |  |
| Fiber crops |  |  |  |  |  |
| Forest Species |  |  |  |  |  |
| Others | Cardamom dry | - | 600g | 600 | 1 |
| Vanilla | - | 1 pkt. | 50 | 1 |
| Stevia powder | - | 1 pkt. | 150 | 1 |
| Ramacham scrub | - | 3 Nos. | 45 | 1 |
| Edible mushroom | CO-1 & Florida | 42.50 kg | 5231.15 | 21 |
| Mushroom bed | CO-1 | 4 Nos. | 210 | 4 |
| Tomato | Local | 50 kg | 500 | 40 |
| Cabbage | Maharani | 60 kg | 1200 | 40 |
| Garden Beans | Local | 30 kg | 900 | 20 |
| Cauliflower | INDAM-9803 | 3 kg | 60 | 3 |
| Cowpea | - | 25 kg | 750 | 20 |
| Carrot | Improved Kuroda | 5 kg | 100 | 10 |
| Beetroot | Action | 8 kg | 160 | 16 |
| Capsicum | INDAM Mahabharath | 40 kg | 2400 | 80 |
| Orange – Garden fresh | - | 5 kg | 100 | 10 |
| Jam | - | 20 pkts. | 240 | 20 |
| Squash | - | 4 bottle | 80 | 4 |
| Sauce | - | 5 pkts. | 50 | 5 |
| Dessert wine | - | 26 bottle | 1560 | 25 |
| Sip up | - | 189 Nos. | 407.50 | 164 |
| Herbal soap | - | 2 Nos. | 130 | 2 |
| Banana | Robusta | 41 kg | 410 | 20 |
| White pepper | - | 4 pkts. | 440 | 4 |
| Soap kit | - | 23 kits. | 1245 | 15 |
| Detergent powder kit | - | 14 kits | 2800 | 14 |
| Cleaning lotion kit | - | 1 No. | 150 | 1 |
| Soap powder | - | 72 kg | 3600 | 50 |
| Cleaning lotion | - | 351.5 litres | 7225 | 90 |
| Liquid soap | - | 294.6 litres | 11630.50 | 60 |
| **Total** |  |  |  | **60398.15** |  |

# Production of planting materials by the KVKs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Crop category** | **Name of the crop** | **Name of the variety**  **(if hybrid pl. specify)** | **Number** | **Value (Rs.)** | **Number of farmers** |
| Commercial |  |  |  |  |  |
| Vegetable seedlings |  |  |  |  |  |
| Fruits |  |  |  |  |  |
| Ornamental plants | Begonia | - | 5 | 125 | 5 |
| Croton | - | 19 | 190 | 10 |
| Bougainvillea | - | 2 | 20 | 2 |
| Jasmine | - | 3 | 30 | 3 |
| Strawberry | - | 3 | 30 | 1 |
| Dianthus | - | 135 | 2025 | 110 |
| Euphorbia | - | 22 | 1050 | 20 |
| Balsam | - | 45 | 450 | 15 |
| Shoe flower | - | 23 | 230 | 10 |
| Chendumulla | - | 4 | 240 | 4 |
| Anthurium | - | 9 | 875 | 2 |
| Petunia | - | 2 | 20 | 2 |
| Gomphrena | - | 6 | 30 | 2 |
| Peperomia | - | 4 | 100 | 2 |
| Poinsettia | - | 2 | 50 | 1 |
| Coleus | - | 4 | 320 | 2 |
| Azelia | - | 2 | 30 | 1 |
| Medicinal and Aromatic | Aloevera | - | 108 | 2570 | 102 |
| Plantation |  |  |  |  |  |
| Spices | Cardamom tillers | PV-2 | 20 | 800 | 2 |
| Njallani | 10 | 350 | 1 |
| White Bold | 3 | 120 | 1 |
| Tuber |  |  |  |  |  |
| Fodder crop saplings |  |  |  |  |  |
| Forest Species |  |  |  |  |  |
| Others |  |  |  |  |  |
| **Total** |  |  |  | **9655.00** |  |

**Production of Bio-Products**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Bio Products** | **Name of the bio-product** | **Quantity**  **Kg** | **Value (Rs.)** | **No. of Farmers** |
| Bio Fertilizers |  |  |  |  |
| Bio-pesticide |  |  |  |  |
| Bio-fungicide | Pseudomonas | 351.63 litres | 28260.40 | 102 |
| Trichoderma | 67 litres | 5360.00 | 32 |
| Bio Agents |  |  |  |  |
| Others | Mushroom spawn | 1327 pkts. | 32820.00 | 515 |
| Earthworms | 40 kg | 12000.00 | 60 |
| **Total** |  |  | **78440.40** |  |

# 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 |  |  |  |  |
| Duals (broiler and layer) |  |  |  |  |
| Japanese Quail |  |  |  |  |
| Turkey |  |  |  |  |
| Emu |  |  |  |  |
| Ducks |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |
| **Piggery** |  |  |  |  |
| Piglet |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |
| **Fisheries** |  |  |  |  |
| Fingerlings |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |
| **Total** |  |  |  |  |

**VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS 2010-11**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Samples | **No. of Samples** | **No. of Farmers** | **No. of Villages** | **Amount realized (Rs.)** |
| Soil | 52 | 19 | 15 | 2600 |
| Water | 1 | 1 | 1 | 50 |
| Plant | 0 | 0 | 0 | 0 |
| Manure | 0 | 0 | 0 | 0 |
| Others (pl. specify) | 0 | 0 | 0 | 0 |
| **Total** | **53** | **20** | **16** | **2650** |

VIII. SCIENTIFIC ADVISORY COMMITTEE

|  |
| --- |
| **Number of SACs conducted** |
| Nil. |

**IX. NEWSLETTER**

|  |
| --- |
| **Number of issues of newsletter published** |
| Nil. |

**X. RESEARCH PAPER PUBLISHED**

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

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

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