****

**KRISHI VIGYAN KENDRA, WAYANAD**

**ANNUAL REPORT- 2021**

**FOR THE PERIOD FROM 01 January, 2021 TO 31 December**



**ICAR-KRISHI VIGYAN KENDRA, WAYANAD**

**Ambalavayal-673593**

**Website:** [**http://kvkwayanad.kau.in**](http://kvkwayanad.kau.in)

**Email id:** [**kvk.Wayanad@icar.gov.in**](mailto:kvk.Wayanad@icar.gov.in)**,** [**kvkwayanad@kau.in**](mailto:kvkwayanad@kau.in)

**Telephone: 04936 -260411, 9496930411.**

**Host organization: Kerala Agricultural University, Thrissur.**



**PART I – GENERALINFORMATION ABOUT THE KVK**

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| KVK Address | Telephone | | E mail | **Web Address** |
| ICAR-KVKWayanad,  Ambalavayal P.O.,  Wayanad 673593, Kerala | 04936 -260411, 9496930411 | Fax | kvk.Wayanad@icar.gov.in, kvkwayanad@kau.in | http://kvkwayanad.kau.in |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Address | Telephone | | E mail | **Web Address** |
| Office | Fax |  |  |
| Registrar,  Kerala Agricultural University HQ  K.A.U. (P.O.)  Vellanikkara  Thrissur, Kerala 680656. | +91-487-2438011  +91-487-2371619 |  | registrar@kau.in | http://www.kau.in |
| Directorate of Extension  Kerala Agricultural University  Mannuthy  Thrissur, Kerala 680 651. | +91-487-2370086 |  | de@kau.in | [http://extension.kau.in](http://extension.kau.in/) |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Telephone / Contact | | |
|  | Residence | Mobile | Email |
| DrSafia N. E | NIL | 7561806901 | safiya.ne@kau.in |

1.4. Year of sanction:1982

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

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Sanctioned post | Name of the incumbent | Designation | M/F | Discipline | Highest Qualification  (for PC, SMS and Prog. Asstt.) | Pay  Scale | Basic pay | Date of joining KVK | Permanent  /Temporary | Category (SC/ST/  OBC/  Others) |
| 1 | Head/Senior Scientist | Dr.Allan  Thomas | Assistant Professor | M | Agricultural Extension | Ph.D. | 79800- 211500 | 107200 | 10/07/2020 | Permanent | General |
| 2 | Scientist/SMS | Dr. N.E. Safia | Assistant Professor | F | Community Science | Ph.D. | 68900-193700 | 79900 | 19/12/2015 | Permanent | OBC |
| 3 | Scientist/SMS | Dr.DeepaSurendran | Assistant Professor | F | Animal Science | M.V.Sc. | 57700-162000 | 64900 | 18/01/2018 | Permanent | OBC |
| 4 | Scientist/SMS | Dr.Indulekha V.P. | Assistant Professor | F | Agronomy | Ph.D. | 57700-162000 | 59400 | 16/03/2019 | Permanent | General |
| 4 | Scientist/SMS | Smt. AshithaM.S | Assistant Professor | F | Horticulture | M.Sc | 57700-162000 | 59400 | 22.02.2021 | Permanent | SC |
| 5 | Scientist/SMS | Dr. Deepa Rani C.V | Assistant Professor | F | Crop Protection | Ph.D | 57700-162000 | 59400 | 30/04/2021 | Permanent | OBC |
| 6 | Scientist/SMS | Vacant-1 | NIL | NIL | Agricultural Engineering |  |  |  |  |  |  |
| 7 | Programme Assistant/ Farm Manager | Mr.K.S. Rajamani | Scientific Officer | M | NIL | B.Sc.  (Agri.) | 55350-101400 | 91000 | 18/12/1996 | Permanent | OBC |
| 8 | Assistant | Mr. Sajeev A | Office Superindent | M | NIL | BA  Dip.in AE | 27800-59400 | 29200 | 10/7/  2018 | Permanent | OBC |
| 9 | Jr. Stenographer | Mrs. Jeena P | Computer Assistant | F | NIL | B.Sc | 20000-45800 | 20550 | 24/1/2019 | Permanent | General |
| 10 | Programme Assistant (Lab Tech.) | In position (Daily wages) |  |  |  |  |  |  |  | Temporary |  |
| 11 | Programme Assistant (Computer) | In position (Daily wages) | - | - | - | - | - | - | - | Temporary | - |
| 12 | Driver – 1 | Mr. C. D. Divas | - | M | NIL | ITI | 22200-48000 | 28500 | 12/05/2011 | Permanent | OBC |
| 13 | Driver – 2 | Mr. Suku P. | - | M | NIL | 8 | 18000-41500 | 31500 | 20/6/16 | Permanent | ST |
| 14 | SS-1 | Mr. Ramachandran C. | Office Attendant Gr.I | M  M | NIL | SSLC | 17500-39500 | 29200 | 22/12/2014 | Permanent | ST |
| 15 | SS-2 | Mr. Binoop P. B. | Office Attendant Gr.II | M | NIL | Plus Two | 16500-35700 | 17500 | 29/10/2019 | Permanent | OBC |
| 16 |  |  |  |  |  |  |  |  |  |  |  |

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

|  |  |  |
| --- | --- | --- |
| S. No. | Item | Area (ha) |
| 1 | Under Buildings | 0.50 |
| 2. | Under Demonstration Units | 1.00 |
| 3. | Under Crops | 13.50 |
| 4. | Orchard/Agro-forestry | 5.00 |
| 5. | Others | 0.00 |

**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 | 31/05/1988 | 270 | NIL | NIL | NIL | NIL |
| 2. | Farmers Hostel | ICAR | 31/05/1988 | 265 | NIL | NIL | NIL | NIL |
| 3. | Staff Quarters | ICAR | 30/11/2010 | 195.15 | NIL | NIL | NIL | NIL |
|  | 1 | NIL | NIL | NIL | NIL | NIL | NIL | NIL |
|  | 2 | NIL | NIL | NIL | NIL | NIL | NIL | NIL |
|  | 3 | NIL | NIL | NIL | NIL | NIL | NIL | NIL |
|  | 4 | NIL | NIL | NIL | NIL | NIL | NIL | NIL |
|  | 5 | NIL | NIL | NIL | NIL | NIL | NIL | NIL |
|  | 6 | NIL | NIL | NIL | NIL | NIL | NIL | NIL |
| 4. | Demonstration Units |  |  |  |  |  |  |  |
|  | 1 Bio control lab | RSVY | 27/08/2004 | NIL | NIL | NIL | NIL | NIL |
|  | 2 Soil testing lab | RSVY | 31/05/2007 | 150 | 2400000 | NIL | NIL | NIL |
|  | 3 Plant Propagation unit | RSVY | 25/02/2010 | 300 | 912400 | NIL | NIL | NIL |
|  | 4 Goat breeding unit | RF- RSVY | 30/08/2005 | NIL | NIL | NIL | NIL | NIL |
| 5 | 5 Mushroom unit | RSVY | 12/07/2015 | NIL | NIL | NIL | NIL | NIL |
| 6 | 6 Food processing lab | HADA | 31/3/2017 | 125.46 | 4500000 | NIL | NIL | NIL |
| 7 | 7 Poultry unit | RF | 23/08/2015 | NIL | NIL | NIL | NIL | NIL |
| 8 | 8 Azolla unit | RF | 25/11/2017 | NIL | 5500 | NIL | NIL | NIL |
| 9 | 9 Precision farming | ICAR | 02/12/2017 | NIL | 4800 | NIL | NIL | NIL |
| 10 | 10 Wick irrigation unit | ICAR | 04/12/2017 | NIL | 3600 | NIL | NIL | NIL |
|  | 11 Ornamental fish | RF | 04/04/2015 | NIL | NIL | NIL | NIL | NIL |
|  |  |  |  |  |  |  |  |  |
| 5 | Fencing | NIL | NIL | NIL | NIL | NIL | NIL | NIL |
| 6 | Rain Water harvesting system | NIL | NIL | NIL | NIL | NIL | NIL | NIL |
| 7 | Threshing floor | NIL | NIL | NIL | NIL | NIL | NIL | NIL |
| 8 | Farm godown | NIL | NIL | NIL | NIL | NIL | NIL | NIL |

B) Vehicles

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type of vehicle | Year of purchase | Cost (Rs.) | Total kms. Run | Present status |
| 6 wheeler(Tractor) | 2013 | 5,00,000 | 1919.8 | Running |
| Two Wheeler (Bullet) | 2004 | 12,000 | 51055 | Running |
| Two Wheeler (Scooter) | 2008 | 50,000 | 52490 | Running |
| Four Wheeler (Jeep Bolero) | 2017 | 8,00,000 | 87271 | Running |

**C) Lab equipment & AV aids**

|  |  |  |  |
| --- | --- | --- | --- |
| Name of the equipment | Year of purchase | Cost (Rs.) | Present status |
| Name of the equipment | Year of purchase | Cost (Rs.) | Present status |
| Data Press Boards with letter set, trolley, screen with tripod stand and laser pointer (RF) | 2001 | 18927 | Working |
| Desktop computer systems | 2012 | 135730 | Working |
| Squar E monitor | 2021 | 3800 | working |
| Printer Brother DCP-B753500 | 2021 | 15885 | working |
| Projector ESPON W49 | 2021 | 79608 | working |
| Logitech Webcam C930E | 2021 | 10000 | working |
| Webcam Logitech C505 | 2021 | 3450 | working |
| Projector Screen | 2021 | 17000 | working |
| Ceeling Mount Kit | 2021 | 2100 | working |
| Adnet HDMI cable 15 mtr | 2021 | 900 | working |
| Adnet HDMI cable 15 mtr | 2021 | 900 | working |
| Godry Refrigerator | 2021 | 14800 | working |
| CCTV | 2021 | 154342 | working |
| Computer dell ISP | 2021 | 96900 | working |
| Computer | 2021 | 53000 | working |
| Printer | 2007 | 21800 | Working |
| Offline UPS | 2005 | 6950 | Working |
| Spectrophotometer Model GENE SYS-20 | 2004 | 96570 | Working |
| Portable Mini pH meter model LT-14 | 2004 | 3210 | Working |
| Digital conductivity meter model LT-14 | 2004 | 4800 | Working |
| Electronic balance model GE 7101 | 2005 | 27300 | Working |
| Eutech pH meter with electrode Ph | 2005 | 19260 | Working |
| Multipurpose stirrer with 11/4 20 HP motor | 2005 | 2670 | Working |
| Fermentors | 2013 | 1366200 | Working |
| Laboratory shaker model RRS-06 | 2005 | 15560 | Working |
| Water bath Rotex RRW-12 (355 x 405 x 100 mm) | 2005 | 4400 | Working |
| Laboratory centrifuge model-8E with model AH1 | 2005 | 6544 | Working |
| Flame chamber rotex model | 2005 | 39300 | Working |
| Electronic analytical balance model No. APX 203 | 2005 | 38765 | Working |
| Refrigerator 200 & 500 litre model | 2007 | 62109 | Working |
| Hot plates | 2005 | 3900 | Working |
| Coil stove | 2005 | 1775 | Working |
| Turbo mixer grinder | 2005 | 2295 | Working |
| Labtronics digital conductivity meter | 2004 | 4800 | Working |
| Liquefied Petroleum Gas (LPG) Cylinder connection | 2007 | 2329 | Working |
| pH meter (ELICO) | 2007 | 6525 | Working |
| Digital balance GE812 | 2007 | 29750 | Working |
| Digital weighing balance | 2007 | 11340 | Working |
| Refrigerator | 2012 | 36300 | Working |
| Microwave oven | 2012 | 8500 | Working |
| Pressure cooker | 2012 | 4300 | Working |
| Induction cooker | 2012 | 3000 | Working |
| Sealing machine | 2012 | 900 | Working |
| Digital balance | 2012 | 74199 | Working |
| Laminar Air Flow Cabinet (Horizontal) | 2012 | 60609 | Working |
| Hot air oven | 2012 | 98488 | Working |
| Autoclave | 2012 | 89529 | Working |
| Bottling and packing unit | 2013 | 369150 | Working |
| Lap top computer | 2007 | 47000 | Working |
| LCD Projector | 2011 | 87100 | Working |
| DVD video camera with accessories | 2006 | 65080 | Working |
| Digital camera | 2012 | 40000 | Working |
| Display boards | 2006 | 37880 | Working |
| Camera | 2012 | 13800 | Working |
| 1 KVA offline UPS | 2005 | 6950 | Working |
| UPS system online with battery | 2005 | 99640 | Working |
| Electronic automatic KEL PLUS | 2005 | 57356 | Working |
| Water still â€“ All glass single | 2007 | 12696 | Working |
| Eutech Bench Type Conductivity/TDS/Temp. meter | 2005 | 30615 | Working |
| Laminar air flow | 2007 | 69650 | Working |
| Orbital shaker | 2007 | 73990 | Working |
| Horizontal autoclave | 2008 | 621000 | Working |
| Atomic Absorption Spectro Photometer, AAS | 2009 | 1110901 | Working |
| UPS 5KVA | 2011 | 163942 | Working |
| UPS 2KVA | 2011 | 58460 | Working |
| Single stage distillation unit with metal heater | 2012 | 11340 | Working |
| Projector Screen | 2019 | 3500 | Working |
| Collar mike | 2019 | 2800 | Working |
| UPS Luminous Cruze +3.5kVA 48V | 2019 | 16,000 | Working |
| Chaff -Cutter with 2HP motor | 2019 | 39000 | Working |
| HP Printer LaserJet | 2019 | 15750 | Working |
| Grinder Machine,Motor GO4 | 2020 | 32500 | Working |
| Bajaj mixi | 2014 | 4900 | Working |
| Balance | 2019 | 56000 | Working |
| Distillation Set | 2012 | 29824 | Working |
| Distillation Set | 2012 | 29824 | Working |
| Bunsen Burner with Regulator | 2012 | 2205 | Working |
| Balance | 2013 | 5145 | Working |
| Hot plate | 2014 | 3675 | Working |
| Hot plate | 2014 | 7875 | Working |
| UPS Battery | 2014 | 106500 | Working |
| PH meter | 2014 | 4809 | Working |
| Spectrometer | 2014 | 27500 | Working |
| EC TDS Analyzer | 2014 | 23000 | Working |
| PH meter | 2014 | 23200 | Working |
| Digital Nephelometer | 2014 | 15900 | Working |
| Water Quality Analyzer | 2014 | 62900 | Working |
| Computer with Printer | 2014 | 33900 | Working |
| Shaker with Digital distillation System | 2015 | 35175 | Working |
| Automatic Double water distillation system | 2015 | 1499881 | Working |
| Titration System | 2015 | 68580 | Working |
| Soil testing kit | 2017 | 86000 | Working |
| Bottle top dispenser | 2020 | 19434 | Working |
| Vacuum packing Machine With Nitrogen gas | 2016 | 229621 | Working |
| Coconut Scraper | 2017 | 2600 | Working |
| Boiler | 2017 | 91050 | Working |
| Ginger Peeler | 2017 | 37600 | Working |
| Steam jacket Kettle | 2017 | 54400 | Working |
| Pulverizer | 2017 | 54400 | Working |
| Tray drier | 2017 | 155140 | Working |
| Fruit Pulper | 2017 | 138500 | Working |
| Uruli Roster | 2017 | 125000 | Working |
| Hand Sealer | 2017 | 1711.50 | Working |
| Fruit Mill | 2017 | 105020 | Working |
| Hot air Gun | 2017 | 1839 | Working |
| Hydraulic Press | 2017 | 47200 | Working |
| Incubation Sealer | 2017 | 9975 | Working |
| Banana slicer | 2017 | 64900 | Working |
| Continuous band Sealer | 2017 | 18454 | Working |
| Cling film wrapper | 2017 | 7035 | Working |
| Digital Moisture meter | 2017 | 9016 | Working |
| Deep freezer | 2017 | 525000 | Working |
| Solar panel | 2017 | 1000 | Working |
| Lamination Set & Paper | 2018 | 2299 | Working |
| Fan | 2018 | 4980 | Working |
| Gas Stove | 2018 | 4650 | Working |
| Mixi | 2018 | 7500 | Working |
| Mixture Blender | 2018 | 80830 | Working |
| Heavy duty Industrial Mixi | 2018 | 32002 | Working |
| Air condition | 2018 | 34800 | Working |
| Stabilizer | 2018 | 2200 | Working |
| Water Purifier | 2018 | 14632 | Working |
| Vibro swifter | 2018 | 3540 | Working |
| Multi-purpose Head mill | 2018 | 103500 | Working |
| Platform Trolly | 2018 | 17110 | Working |
| Ribbon Blender | 2018 | 129800 | Working |
| Weighing balance | 2018 | 12650 | Working |
| Weighing balance | 2018 | 5000 | Working |
| Weighing balance | 2018 | 3850 | Working |
| Semi-automatic liquid Filling machine | 2018 | 176410 | Working |
| Hydraulic Seva machine | 2018 | 111510 | Working |
| Portable Brix Meter | 2018 | 25000 | Working |
| Atta Kneader | 2018 | 27000 | Working |
| Solar Power system | 2018 | 439040 | Working |
| Pasta making machine | 2018 | 400000 | Working |
| Steel Power Stove | 2018 | 14800 | Working |
| Jackfruit Cutter | 2018 | 14500 | Working |
| Jackfruit Chips cutter machine manual | 2018 | 5900 | Working |
| Jackfruit Chips cutter machine Automatic | 2018 | 35400 | Working |
| Sip up packing machine | 2018 | 192600 | Working |
| Steam And Air Retort | 2018 | 767000 | Working |
| Suchitha Waste management system machine | 2018 | 279330 | Working |
| Hydraulic Areca Plate Semi-Automatic machine | 2018 | 258143 | Working |

**D) Farm equipment and implements**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name of the equipment/implement | Year of purchase | Quantity (No.) | Cost (Rs.) | Present status |
| SRP 60 VMND Aspec High tech Sprayer | 2021 | 1 | 2678 | working |
|  |  |  |  |  |
|  |  |  |  |  |

**1.8. Details of SAC meeting organized**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date | Number of  Participants | Salient Recommendations | Action taken | Remarks, if any |
| **05-02-2021** | **36** |  |  |  |
| 1. |  | 1. On Farm testing and Frontline Demonstration should include crops suited for intercropping in young coffee plantation in consultation and with the support of Coffee Board. 2. KVK should undertake an extension survey of coffee farmers for understanding their socio-economic and technological profile, and also to delineate the problems faced by coffee growers especially the small and marginal farmers. | a) Implemented in 2021-22  FLD: Assessment on intercropping of different crops in young coffee plantation [intercrops with different combination of crops. 5 trials]  b) To be implemented in association with coffee board. | \*Resource limitation especially manpower, Vehicle |
| 2. |  | New IFS models and technologies are needed for Wayanad and KVK should intervene for promoting IFS in small and marginal farmsteads. | Implemented in farmer homesteads and in KVK and survey for beneficiary selection done. |  |
| 3. |  | Drought prone areas near the Karnataka border needinterventions/technologies suiting the agro-ecological unit based cropping system of the area. Recommendations for the same have to be formulated by the research system. This suggestion ought to be made to the research system as feedback of this SAC | Discussion to include Pulpally / MullankollyPanchayath in upcoming NICRA project.  FLD on millet implemented in drought prone area of Pulpally |  |
| 4. |  | 1. Wherever possible, collaboration of institutes for technology dissemination should be explored. 2. Biocontrol outlets with KVK products need to be made available in different parts of Wayanad. 3. Campaign for bud rot management in coconut and Arecanut should be taken up and research system should come up with a standard protocol to address this issue. 4. Introduction of new high yielding varieties of scented rice from different parts of India needs to be popularized in Wayanad through FLDs and continue developing a germplasm collection in the campus. | 1. KudumbasreeThirunelly,Coffeeboard,CIFT,Samethi, Nestle tea farmers ,District jail Mananthavady ,Fisheries, Animal Husbandry and Agriculture Departments, ATMA,Energy management Centre,NGOs.   b) Through ecoshops working under Krishi Bhavan we are marketing our biocontrol products.  c) FLD-on Integrated management of bud rot in coconut implemented;  5 trials  d) Effortsbeing done alone to collect seeds of Scented rice for the next season. | FLD on Arecanut not  approved in action plan.  Difficult to procure seeds  due to Covid -19  restriction for the area. |
| 5. |  | 1. VFPCK is planning to conduct program for promotion of large-scale cultivation of Garlic in Wayanad. Technical support for the cultivation aspect is to be provided from KVK. 2. Research on technologies for reducing blackening of banana peel on storage needs to be taken up by KAU. This recommendation need to be passed on to the research system as feedback for action. 3. More OFTs and FLDs should be included for promoting cool season fruit and vegetable production. Crop based climate smart technologies should be included in future demonstrations. 4. Demonstration of millets in tribal areas should be conducted in Wayanad 5. Demonstration on Coleus tuber cleaning machine should be undertaken with the support of KCAET Tavanur. | 1. Capacity building of value addition of garlic done.   b) This problem was presented as researchable issue and request sent to Director of Research, KAU and presented during 26th ZREAC conducted at RARS on 28.12.2021  c)Implemented FLD- Popularization of broccoli (Pusa Broccoli KS-1:10 demos), Onion (ArkaKalyan :3 demos), Carrot (PusaNavjothi : 3 demos), NEP Cauliflower (PusaMeghna: 10 demos) and cool season vegetable as part of Nutrigarden  d) Implemented - FLD-Demonstration of millet variety ATL-1 in summer rice fallows.  As a part of village adoption conducted at Thirunelli, millet seeds were given to farmers  e) Implemented -FLD-Demonstration of coleus skin peeler with 5 demos |  |
| 6. |  | 1. Focus to be given for introduction of more fruit trees in Wayanad forest areas for reducing wild animal attack on cultivated crops. Training programmes can be organized as a part of imparting knowledge and awareness on fruit tree crops suited for Wayanad region. 2. Calf care programmes should be initiated and more OFT/FLDs should be proposed. 3. Technologies for production of silage from Hybrid Napier should be demonstrated for furthering its adoption especially for small and marginal farmers. | 1. To be implemented in 2021-22 year itself.  2. Implemented FLD- Demonstration of integrated control methods to prevent  wild animal attacks on crops (5 demos)  Training programmes conducted  FLD on Scientific management practices in Calf care not approved. Capacity building programmes conducted  c).OFT on Assessment of silage feeding for the improvement of production parameters in cattle and EDP on Preparation of silage in drums not approved. Capacity building programmes conducted |  |
| 7. |  | 1. Demonstration should be conducted using drought resistant fodder varieties and fodder cowpea. 2. Training programmes on value addition in various milk products for small scale farmers needs to be promoted as Wayanad has excess of milk production | a) FLD on Demonstration of drought resistant fodder crops inhomesteads (10 demos) to be implemented. Seeds of Guinea grass, Fodder Sorghum, and *Stylosanthes*were procured.  b) Training given as part of ODOP programme and on Milk Day  Implemented EDP on value added products from milk. |  |
| 8. |  | 1. Collaborative training programmes for Farmer Producers Organizations with NABARD should be initiated. 2. Training for farmers on management practices for pepper cultivation should be conducted 3. Mass awareness programmes for watershed development programmes should be initiated along with other similar development departments. 4. Demonstration units on sprinkler and drip irrigation should be realized at KVK as model for the benefit of farming community 5. Training programmes need to be organized on efficient irrigation techniques for different cropping systems. | a. Made visits to different FPOs along with NABARD DDM.  b. Conducted training as part of Technology week, Soil Day  c. Awareness trainings were given as part of World soil day, Water Day  d. Installed demonstration unit of drip irrigation system in rapid multiplication unit of pepper in KVK  e. As part of NICRA project will be implemented in Padichira, MullankollyGramaPanchayath. |  |
| 9. |  | Training on AH by coordinating with KVASU and AHD should be made in advance for ensuring efficient participation | Five programmes were conducted including farmer-scientist interaction, Animal health clinic in association with KVASU. |  |
| 10. |  | 1. FLD on Gladiolus in Coffee gardens should be conducted 2. Biocontrol outlets with KVK products need to be made available to different parts of Wayanad. | a) OFT was conducted using marigold as intercrop in young coffee plantations – 5 demos as suggested by ATARI  b) It is already available in Ecoshops of KrishiBhavans in different parts of Wayanad | Collection of corms was  not possible in time due to  Covid -19 |
| 11. |  | Package of practices (location specific) for encouraging farming among tribal communities are to be formulated by the research system of KAU. | To improve the standard of living of tribals, goats, hens with cages were supplied to tribal community. Millet, pulses and vegetable seeds distributed for nutritional security. |  |
| 12. |  | Training on nutritional garden should be given to more Kudumbasree members and tribal farmers | 1.Implemented in Tribal–Village adoption Thirunelly.  2.As part of Agri- nutrigardenprogramme, offline and online trainings were given.  3.As part of Agrinutrigardenprogramme of Kudumbasree, vegetable seedlings will be supplied to 20650 farm families in 413 wards in Wayanad district |  |
| 13. |  | 1. Training on income generating start-ups should be explored 2. Training for tribal farmers and women entrepreneurs on exotic fruit and vegetable cultivation should be initiated | 1. Training programme were conducted for Kudumbasree members and tribals on the following topics: Nursery management, Apiculture, Value addition for horticultural crops, fish and milk, Organic farming, Livestock manure and its use in organic farming, fodder cultivation. EDP in livestock sectors and fisheries sector, poultry rearing. 2. Training programme were conducted for tribal women |  |

**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. | Irrigated: Coffee based farming system, coffee + pepper + coconut, rice +pulses+vegetables, rice+banana, rice+tuber crops, rice+fish, tea, mushroom production, bamboo processing, scented rice, spice processing, |
| 2. | Rainfed: Vegetables, banana, polyhouse cultivation, low land rice, fish culture |
| 3. | Integrated farming system |

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

|  |  |  |
| --- | --- | --- |
| S. No | Agro-climatic Zone | Characteristics |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| S. No | Agro ecological situation | Characteristics |
|  |  |  |

2.3 Soil type/s

|  |  |  |  |
| --- | --- | --- | --- |
| S. No | Soil type | Characteristics | Area in ha |
|  |  |  |  |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S. No | Crop | Area (ha) | Production (Metric tons) | Productivity (kg /ha) |
| 1. | Coffee | 67705 | 54676 | 808 |
| 2 | Black Pepper | 10307 | 3694 | 358 |
| 3 | Paddy | 7326 | 19513 | 2669 |
| 4 | Nendran banana | 13734 | 133596.792 | 9727 |
| 5 | Jack fruit | 7086 | 15 million nuts | 2117 million nuts |
| 6 | Arecanut | 12258 | 5328 | 435 |
| 7 | Tea | 7558 | 11860 | 1569 |
| 8 | Rubber | 10770 | 6200 | 576 |
| 9 | Cardamom | 4103 | 198 | 48 |
| 10 | Ginger | 1111 | 4794 | 4315 |

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

2.5. Weather data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Month | Rainfall (mm) | Temperature 0 C | | Relative Humidity (%) | |
| Maximum | Minimum | RH1(%) | RH2(%) |
| January | 65.9 | 26.6 | 17 | 91 | 61 |
| February | 27 | 28.6 | 16.6 | 88 | 42 |
| March | 34.3 | 30.6 | 18.7 | 92 | 46 |
| April | 112.7 | 29.5 | 18.7 | 92 | 64 |
| May | 215 | 27.4 | 17.2 | 93 | 77 |
| June | 224.2 | 26.1 | 16.2 | 90 | 78 |
| July | 504.9 | 24.9 | 15.7 | 93 | 87 |
| August | 225.5 | 25.1 | 16.2 | 96 | 88 |
| September | 140.1 | 25.9 | 15.9 | 96 | 78 |
| October | 325.1 | 26.2 | 16.5 | 96 | 80 |
| November | 187.4 | 24.7 | 17.1 | 95 | 85 |
| December | 10.9 | 26.5 | 15.8 | 94 | 65 |

\* Department of Agricultural Meteorology, Regional Agricultural Research Station, Ambalavayal, Wayanad

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Category** | **Population (2019 census)** | **Production**  **(2020-2021)** | **Productivity (2020-2021)** |
| **Cattle** | **79,753** | **90,251,532 litres milk** | **10 litres/day** |
| *Crossbred* | 77,046 | **-** | **-** |
| *Indigenous* | 2,707 | **-** | **-** |
| **Buffalo** | **4,353** | **-** | **-** |
| **Sheep** | **238** | **-** | **-** |
| Crossbred | 37 | **--** | **-** |
| *Indigenous* | 201 | **-** | **-** |
| **Goats** | **45,365** | **-** | **-** |
| **Pigs** | **9,147** | **-** |  |
| *Crossbred* | 9,013 | **-** | **-** |
| *Indigenous* | 134 | **-** | **-** |
| **Rabbits** | **92,693** | **-** | **-** |
|  |  | --6666 |  |
| **Poultry** | **8,89,250** | **633.123 lakh eggs** | - |
| Hens | 862560 | **-** | **-** |
| *Desi* | - | **-** | **-** |
| *Improved* | - | **-** | **-** |
| Ducks | 12425 | **--** | **-** |
| Turkey and others | 14261 | **-** | **-** |

Source: Livestock Census, 2019 and AH and Dairy Department, Wayanad

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

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

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

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 | SulthanBathery | SulthanBathery | Cheeral |  | Onion-Assessment of onion varieties in Wayanad | 1.In spite of agro-climatic advantage, there is no organized onion cultivation in Wayanad.  2.Non-availability of onion and price fluctuation during certain periods | Variety evaluation |
| 2 | SulthanBathery | SulthanBathery | Cheeral |  | Rice-Assessment of high yielding rice varieties for  Nancha season in Wayanad | 1)Non availability of high yielding long duration rice  2)Varieties for the first crop season suited for Wayanad | Variety evaluation |
| 3 | SulthanBathery | SulthanBathery | Noolpuzha |  | Yam, Marigold-Assessment ofdifferent intercrops in young coffee plantation | No income for farmers in the initial stages of coffee and lack of popularisation of tubers in Wayanad**.** | Crop diversification |
| 4 | Vythiri | Kalpetta | Kalpetta |  | Demonstration of agricultural technologies for urban homesteads in Wayanad | Lack of space and knowledge on spatial planning of crops for urban homesteads with limited area | Crop diversification |
| 5 | Kalpetta | Kalpetta | Padinjarathara |  | Rice-Demonstration of drone technology in rice | High labour cost, non-uniform spraying ,poor nutrient uptake (especially K) and laborious intensive labour requirement | INM ,labour reduction |
| 6 | SulthanBathery | Panamaram | Pulpally |  | Carrot-Demonstration of ridges and furrow method of planting in carrot cultivation | 1)Farmers resort to different methods of planting which has not been evaluated  2)In spite of agro-climatic advantage, carrotcultivation is not popularinWayanad | Crop production |
| 7 | Sulthanbathery | Sulthanbathery | Cheeral |  | Broccoli-Popularisation of broccoli (Pusa Broccoli KS-1) in Wayanad district | Lack of awareness on the scope of broccoli | Variety evaluation |
| 8 | Kalpetta | Kalpetta | Padinjarathara |  | Demonstration of inter cropping of cluster bean (Suruchi) with banana | Less profit due to non-optimum utilization of time and space | Crop diversification |
| 9 | Sulthanbathery | Sulthanbathery | Vaduvanchal |  | Demonstration of water melon SwarnaandShonima (seedless watermelon) | Lack of seedless water melon, Low marketacceptability and Low shelf life of the cultivated varieties | Variety evaluation |
| 10 | Sulthanbathery | Sulthanbathery | Noolpuzha |  | Demonstration of different premix herbicide (Vivaya)formulations for broad spectrum weed control in rice | High incidence of weeds resulting in severe yield reduction | IPM |
| 11 | Panamaram | Panamaram | Cheekadi |  | Demonstration of finger millet variety ATL-1 in summer rice fallows | Water shortage, high temperature and low farm income | Variety evaluation |
| 12 | Sulthanbathery | Sulthanbathery | Vaduvanchal |  | Demonstration of drought resistant fodder crops in homesteads | Lack of drought resistant fodder crops | Variety evaluation |
| 13 | Sulthanbathery | Sulthanbathery | Noolpuzha |  | Integrated management of bud rot in coconut | Expensive and less effective management practices | IDM |
| 14 | Kalpetta | Kalpetta | Padinjarathara |  | Integrated Pest Management in Banana for the management of Pseudostem weevil | Substantial yield loss | IPM |
| 15 |  |  |  |  | Demonstration of coleus skin peeler | Lack of labour-saving equipment in removing skin to improve marketability of Chinese potato (laborious, labour intensive, high cost of labour, time consuming, and contact issues) | Drudgery reduction |
| 16 | Sulthanbathery | Sulthanbathery | Vaduvanchal |  | Demonstration of fodder oats and fodder cowpea for improving the nutrient composition of the ration | Low carbohydrate and protein content in ration leading to decrease in milk production | Scientific nutrition management |
| 17 | Sulthanbathery | Sulthanbathery | Nenmeni |  | Demonstration of integrated farming system for enhancing income | Lack of IFS units in farmers’ field and low income from homesteads | Small scale income generating enterprices |
| 18 | Sulthanbathery | Sulthanbathery | Purakkadi |  | Demonstration of integrated control methods to prevent wild animal attack on crops | Loss of crop due to wild animal attack | IPM |
|  |  |  |  |  |  |  |  |

2.9 **Priority thrust areas**

|  |  |
| --- | --- |
| S. No | Thrust area |
| 1 | Spatial and temporal approach for improving production and productivity of crops |
| Sustainable soil health management |
| Climate smart crop rotation and intercropping practices |
| Promotion of soil and water conservation practices |
| 2 | Value addition and product diversification of fruits, vegetables and other agriculture and allied enterprises |
| 3 | Introduction of profitable high value crops of climatic advantage in Wayanad |
| 4 | Promotion of organic sources of nutrients and bio control agents |
| 5 | AH- Scientific disease management, Scientific feeding  management and Scientific breeding management |
| 6 | EDP and Skill development programmes for additional income generation and generating self employment for youth, farmer collectives and farm families. |

**PART III - TECHNICAL ACHIEVEMENTS**

**3.A. Target and Achievements of mandatory activities**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **OFT** | | | | **FLD** | | | |
| **1** | | | | **2** | | | |
| **OFTs (No.)** | | **Farmers (No.)** | | **FLDs (No.)** | | **Farmers (No.)** | |
| **Target** | **Achievement** | **Target** | **Achievement** | **Target** | **Achievement** | **Target** | **Achievement** |
| 3 | 3 | 13 | 13 | 15 | 15 | 100 | 100 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Training (Farmers/farm women)** | | | | **Training (Rural youth)** | | | |
| **3** | | | | **4** | | | |
| **Courses (No.)** | | **Participants (No.)** | | **Programmes (No.)** | | **Participants (No.)** | |
| **Target** | **Achievement** | **Target** | **Achievement** | **Target** | **Achievement** | **Target** | **Achievement** |
| **30** | **160** | **800** | **5070** | 18 | 56 | 640 | 1309 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Training (Extension personnel)** | | | | **Training (sponsored)** | | | |
| **5** | | | | **6** | | | |
| **Courses (No.)** | | **Participants (No.)** | | **Programmes (No.)** | | **Participants (No.)** | |
| **Target** | **Achievement** | **Target** | **Achievement** | **Target** | **Achievement** | **Target** | **Achievement** |
| **2** | **37** | **70** | **1034** | 10 | 2 | 300 | 74 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Training (Vocational)** | | | | **Extension Programmes** | | | |
| **7** | | | | **8** | | | |
| **Courses (No.)** | | **Participants (No.)** | | **Programmes (No.)** | | **Participants (No.)** | |
| **Target** | **Achievement** | **Target** | **Achievement** | **Target** | **Achievement** | **Target** | **Achievement** |
| **2** |  | **50** |  | 92 | 294 | 25,000 | 26007 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Seed Production (Q)** | | **Planting material (Nos.)** | |
| **9** | | **10** | |
| **Target** | **Achievement** | **Target** | **Achievement** |
|  |  | 5.00 lakh Nos | 1,76,593 Nos. |
|  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Livestock, poultry strains and fingerlings (No.)** | | | | **Bio-products (Kg)** | | | |
| **11** | | | | **12** | | | |
| **Target** | | **Achievement** | | **Target** | | **Achievement** | |
| 5000 Nos. | | 4,239 Nos | | 15,000 kg | | 12,839 kg | |
|  | |  | |  | |  | |
|  | |  | |  | |  | |
| **Soil, water, plant and manure analysis**  **(including mobile kits)** | | | | **Mobile agro advisories provided** | | | |
| **13** | | | | **14** | | | |
| **Samples (No.)** | | **Farmers (No.)** | | **Messages including text, voice (No.)** | | **Farmers (No.)** | |
| **Target** | **Achievement** | **Target** | **Achievement** | **Target** | **Achievement** | **Target** | **Achievement** |
| 1000 Nos | 956 Nos | 1000 Nos | 956 Nos | 1000 | 5304 | 1000 | 5304 |
|  |  |  |  |  |  |  |  |

**3.B1. Abstract of interventions undertaken**

| **S. No** | **Thrust area** | **Crop/**  **Enterprise** | **Identified Problem** | **Interventions** | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Title of OFT if any** | **Title of FLD if any** | **Number of Training (farmers)** | **Number of Training (Youths)** | **Number of Training (extension personnel)** | **Extension activities**  **(No.)** | **Supply of seeds (Qtl.)** | **Supply of planting materials (No.)** | **Supply of livestock (No.)** | **Supply of bio products** | |
| **1** | Variety evaluation | Onion | 1.In spite of agro-climatic advantage, there is no organized onion cultivation in Wayanad.  2.Non-availability of onion and price fluctuation during certain periods | Assessment of onion varieties in Wayanad | **--** | **1** | **1** | **1** | **1** | **0.006** | **Nill** | **-** | **No.**  **1** | **Kg** |
| 2 | Variety evaluation | Rice | 1)Non availability of high yielding long duration rice  2)Varieties for the first crop season suited for Wayanad | Assessment of high yielding rice varieties forNancha season in Wayanad | Demonstration of drone technology in rice | 1 | 1 | 1 | 1 | 3.6 | Nil | - | 1 | 6 |
| 3 | Crop diversification | Yam , marigold | No income for farmers in the initial stages of coffee and lack of popularisation of tubers in Wayanad**.** | Assessment ofdifferent intercrops in young coffee plantation | -- | 1 | 1 | - | 1 | 2000 seedling | Nil | - | Nill | Nill |
| 4 | INM,labour reduction |  | Lack of space and knowledge on spatial planning of crops for urban homesteads with limited area | -- | Demonstration of agricultural technologies for urban homesteads in Wayanad | 1 | 1 | 1 | 1 | Nil | Nil | Nil | Nil | Nil |
| 5 | Crop production | Carrot | 1)Farmers resort to different methods of planting which has not been evaluated  2)In spite of agro-climatic advantage, carrotcultivation is not popularinWayanad | -- | Demonstration of ridges and furrow method of planting in carrot cultivation | 1 | 1 | 1 | 1 | 0.003 | Nil | - | 1 | 6 |
| 7 | Variety evaluation | Broccoli | Lack of awareness on the scope of broccoli | - | Popularisation of broccoli (Pusa Broccoli KS-1) in Wayanad district | 1 | 1 | 1 | 1 | Nil | 10g | - | 1 | 2 |
| 8 | Crop diversification | Cluster bean | Less profit due to non-optimum utilization of time and space | - | Demonstration of inter cropping of cluster bean (Suruchi) with banana | 1 | 1 | 1 | 1 | 0.02 | Nil | - | 1 | 20 |
| 9 | Variety evaluation | Watermelon | Lack of seedless water melon, Low marketacceptability and Low shelf life of the cultivated varieties | - | Demonstration of water melon SwarnaandShonima (seedless watermelon) | 1 | 1 | 1 | 1 | 0.01 | Nil | - | 1 | 20 |
| 10 | IPM | Rice | High incidence of weeds resulting in severe yield reduction | - | Demonstration of different premix herbicide (Vivaya)formulations for broad spectrum weed control in rice | 1 | 1 | 1 | 1 | 3 | Nil | - | Nil | Nil |
| 11 | Variety evaluation | Finger millet | Water shortage, high temperature and low farm income | - | Demonstration of finger millet variety ATL-1 in summer rice fallows | 1 | 1 | 2 | l | 0.3 | Nil | - | Nil | Nil |
| 12 | Variety evaluation | Fodder crops | Lack of drought resistant fodder crops | - | Demonstration of drought resistant fodder crops in homesteads | 1 | 1 | 1 | 1 | 10+10+10=30 | Nil | Nil | Nil | Nil |
| 13 | IDM | Coconut | Expensive and less effective management practices | - | integrated management of bud rot in coconut | 1 | 2 | 1 | 1 | Nil | Nil | Nil | 1 | 5 |
| 14 | IPM | banana | Substantial yield loss | - | Integrated pest management in Banana for the management pseudostem weevil | 1 | 1 | 1 | 1 | Nil | Nil | Nil | 1 | 0.2 |
| 15 | Drudgery reduction | coleus | Lack of labour -saving equipment in removing skin to improve marketability of chineese potato(laborious,labour intensive ,high cost of labour,timeconsuming,and contact issue | - | Demonstration coleus skin peeler | 1 | 1 | 1 | 1 | Nil | 300n nos for 5 cent | Nil | Nil | Nil |
| 16 | Scientific nutrionmanagement . | Fodder oats and fodder cow pea | Low carbohydrate and protein content in ration leading to decrease in milk production | - | Demonstration of fodder oats and fodder cow pea for improving the nutrient composition of the ratyion | 1 | 1 | 1 | 1 | 3x5=15  3x5=15  15+15=30 | Nil | Nil | 2 | 8 |
| 17 | small scale income generating | Integrated farming system | Lack of IFS units in farmers field and low income from homesteads | - | Demonstration of integrated farming system for enhancing income | 1 | 1 | 1 | 1 | Nil | Nil | Kuttanad ducks 5  200 fish fingerlings | Nil |  |
| 18 | IPM | Control methods to prevent wild animal attack | Loss of crop due to wild animal attack |  | Demonstration of integrated control method to prevent wild animal attack on crops . | 1 | 1 | 1 | 2 | Nil | Nil | Nil | 4 | 23.5 |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No** | **Title of Technology** | **Source of technology** | **Crop/enterprise** | **No.ofprogrammes conducted** | | | |
| **OFT** | **FLD** | **Training** | **Others (Specify)** |
| **1** | Assessment of high yielding rice varieties for Nancha season in Wayanad | KAU | Rice | 5 |  | **3** | **-** |
| **2** | Assessment of different intercrops in young coffee plantation Remarks: ATARI experts asked to include more intercrops instead of yams alone as inter crops in coffee gardens | ICAR-CTCRI | Yarm, Marigold | 5 |  | **3** | **Leaflet prepared for marigold cultivation** |
| 3 | Demonstration of onion varieties in Wayanad | 11HR | Onion |  | 3 | **3** | **-** |
| **4** | Demonstration of agricultural technologies for urban homesteads in Wayanad | IFSRS karamana | Vegetable |  | **2** | **3** | **-** |
| **5** | Demonstration of drone technology in rice | KAU | Rice |  | 20  ha- 5 | **3** | **-** |
| **6** | Demonstration of ridges and furrow method of planting in carrot cultivation | TNAU-KAU | Carrot |  | **3** | **3** | **-** |
| **7** | Popularization of broccoli (PusaBrocolli KS-1) in Wayanad district | IARI | Broccoli |  | 10 | **3** | **-** |
| **8** | Demonstration of inter cropping of cluster bean (Suruchi) with banana | KAU | Cluster bean |  | 10 | **3** | **-** |
| **9** | Demonstration of water melon Swarna and Shonima (seedless watermelon) | KAU | Water melon |  | 10 | **3** | **-** |
| **10** | Demonstration of different pre mix herbicide (Vivaya) formulations for broad spectrum weed control in rice | AICRP on Weed management on KAU | Rice |  | 5 | **3** | **-** |
| **11** | Demonstration of finger millet variety ATL-1 in summer rice fallows | TNAU | finger millet |  | 10 | **3** | **-** |
| **12** | Demonstration of drought resistant fodder crops in homestead | TNAU | Fodder sorghum Forage grass forage grass |  | 10 | **3** | **-** |
| **13** | Integrated management of bud rot in coconut | ICAR-CPCRI- KAU | Coconut |  | **5** | **3** | **-** |
| **14** | Integrated Pest Management in Banana for the management of pseudo stem weevil | KAU-AICRP | Banana |  | **10** | **3** | **-** |
| **15** | Demonstration of coleus skin peeler | KCAET Tavannoor | Coleus |  | 5 | **3** | **-** |
| **16** | Demonstration of fodder oats and fodder cowpea for improving the nutrient composition of the ration | PAU-TNAU | Fodder oats Fodder cow pea |  | 5 | **3** | **-** |
| **17** | Demonstration of integrated farming system for enhancing income | KAU | IFS – Poultry- fish- vegetable- composting |  | 5 | **3** | **Leaflet prepared on composting inoculums use** |
| **18** | Demonstration of integrated control methods to prevent wild animal attacks on crops | KAU-NIPHM-PJSTAU-ITK | Borep, Ricinoleic acid, Biofencing, Bioacoustic device, Farmers innovation |  | 5 | **3** | **Leaflet prepared on Borep use** |

**3.B2 contd..**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No. of farmers covered** | | | | | | | | | | | | | | | |
| **OFT** | | | | **FLD** | | | | **Training** | | | | **Others (Specify)** | | | |
| **General** | | **SC/ST** | | **General** | | **SC/ST** | | **General** | | **SC/ST** | | **General** | | **SC/ST** | |
| **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** |
| **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | **19** | **20** | **21** | **22** | **23** | **24** |
| **9** | **1** | **-** | **-** | **61** | **42** | **-** | **-** | **113** | **67** | **4** | **2** | **17** | **38** | **-** | **-** |

**PART IV - On Farm Trial**

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

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thematic areas | Cereals | Oilseeds | Pulses | Commercial Crops | Vegetables | Fruits | Flower | Plantation crops | Tuber Crops | TOTAL |
| Integrated Nutrient Management | - | - | - | - | - | - | - | - | - | - |
| Varietal Evaluation | 1 | - | - | - | - | - | - | - | 1 | 2 |
| Integrated Pest Management | - | - | - | - | - | - | - | - | - | - |
| Integrated Crop Management | - | - | - | - | - | - | - | - | - | - |
| Integrated Disease Management | - | - | - | - | - | - | - | - | - | - |
| Small Scale Income Generation Enterprises | - | - | - | - | - | - | - | - | - | - |
| Weed Management |  |  |  |  |  |  |  |  |  |  |
| Resource Conservation Technology | - | - | - | - | - | - | - | - | - | - |
| Farm Machineries | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Integrated Farming System |  |  |  |  |  |  |  |  |  |  |
| Seed / Plant production | - | - | - | - | - | - | - | - | - | - |
| Value addition | - | - | - | - | - | - | - | - | - | - |
| Drudgery Reduction | - | - | - | - | - | - | - | - | - | - |
| Storage Technique | - | - | - | - | - | - | - | - | - | - |
| Cropping Systems | - | - | - | - | - | - | - | - | - | - |
| Farm Mechanization | - | - | - | - | - | - | - | - | - | - |
| Mushroom cultivation |  |  |  |  |  |  |  |  |  |  |
| Others | - | - | - | - | - | - | - | - | - | - |
| Total | 1 | -- | -- | -- | -- | -- | -- | -- | 1 | 2 |

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

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

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

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

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

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

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

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Thematic areas** | **Crop** | **Name of the technologies** | **No. of trials** | **Number of farmers / locations** | **Area in ha (Per trial covering all Technological Options in a farm)** |
| Integrated Nutrient Management | - | - | - | - | - |
| - | - | - | - | - |
| Varietal Evaluation | - | - | - | - | - |
| Rice | Assessment of high yielding riceVarieties for nancha season in wayanad | 5 | 5 | 0.06 |
|  | - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| 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 | - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| Crop diversification | Yam, ,marigold | Assessment of different intercrops in young coffee plantations | 5 | 5 | 0.02 |
| - | - | - | - | - |
| - | - | - | - | - |
| Crop production | - | - | - | - | - |
| Scientific nutrition management | - | - | - | - | - |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Thematic areas** | **Crop** | **Name of the technologies** | **No. of trials** | **Number of farmers/locations** | **Area in ha (Per trial covering all Technological Options in a farm)** |
| Integrated Nutrient Management | - | - | - | - | - |
| - | - | - | - | - |
| Varietal Evaluation | - | - | - | - | - |
| - | - | - | - | - |
| Integrated Pest Management |  |  |  |  |  |
| - | - | - | - | - |
| Integrated Crop Management | -- | -- | -- | -- | -- |
|  |  |  |  |  |
| Integrated Disease Management | - | - | - | - | - |
| - | - | - | - | - |
| Small Scale Income Generation Enterprises | - | - | - | - | - |
| - | - | - | - | - |
| Weed Management | - | - | - | - | - |
| - | - | - | - | - |
| Resource Conservation Technology |  |  |  |  |  |
| - | - | - | - | - |
| Farm Machineries | -- | -- | -- | -- | -- |
|  |  |  |  |  |
| Integrated Farming System | - | - | - | - | - |
| - | - | - | - | - |
| Seed / Plant production | - | - | - | - | - |
| - | - | - | - | - |
| Post Harvest Technology/Value addition | - | - | - | - | - |
| - | - | - | - | - |
| Drudgery Reduction |  |  |  |  |  |
| - | - | - | - | - |
| Storage Technique | -- | -- | -- | -- | -- |
|  |  |  |  |  |
| Mushroom cultivation | - | - | - | - | - |
| - | - | - | - | - |
| Cropping Systems | - | - | - | - | - |
| Farm Mechanization | - | - | - | - | - |
| Others, Pl specify | - | - | - | - | - |
| **Total** | - | - | - | - | - |

**4.B.3. Technologies assessed under Livestock**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Thematic areas** | **Name of the livestock** | **Name of the technologies** | **No. of trials** | **No. of farmers/locations** |
| Evaluation of breeds | - | - | - | - |
| Nutrition management | - | - | - | - |
| Disease management | - | - | - | - |
| Processing and Value addition | - | - | - | - |
| Production and management |  |  |  |  |
| Feed and fodder management | - | - | - | - |
| Small scale income generating enterprises | -- | -- | -- | -- |
| Others, pl. specify | - | - | - | - |
| **Total** | | |  |  |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Thematic areas** | **Name of the livestock** | **Name of the technologies** | **No. of trials** | **No. of farmers/locations** |
| Evaluation of breeds | - | - | - | - |
| Nutrition management | - | - | - | - |
| Disease management | - | - | - | - |
| Processing and Value addition | - | - | - | - |
| Production and management |  |  |  |  |
| Feed and fodder management | - | - | - | - |
| Small scale income generating enterprises | -- | -- | -- | -- |
| Others, pl. specify |  |  |  |  |
| **Total** | - | - | - | - |

4.B.5. T**echnologies assessed under various enterprises by KVKs**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. | **Thematic areas** | **Name of the enterprise** | **Name of technology(s)** | **No. of trials** | **No. of locations** |
| 1 | Drudgery reduction | Coleus | Coleus peeling | 1 | 1 |
| 2 | Entrepreneurship Development | - | - | - | - |
| 3 | Health and nutrition | - | - | - | - |
| 4 | Processing and value addition | - | - | - | - |
| 5 | Energy conservation | - | - | - | - |
| 6 | Small-scale income generation |  |  |  |  |
| 7 | Storage techniques | - | - | - | - |
| 8 | Household food security | Vegetable | Nutrigarden | 15 | 1 |
| 9 | Organic farming | - | - | - | - |
| 10 | Agroforestry management | - | - | - | - |
| 11 | Mechanization | - | - | - | - |
| 12 | Resource conservation technology | - | - | - | - |
| 13 | Value Addition |  |  |  |  |
| 14 | Others, pl. specify | - | - | - | - |

4.B.6.T**echnologies assessed under various enterprises for women empowerment**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Thematic areas** | **Name of enterprise** | **Name of technology(s)** | **No. of trials** | **No. of locations** |
| 1 | Drudgery Reduction | Coleus |  | 5 | 1 |
| 2 | Entrepreneurship Development | - | - | - | - |
| 3 | Health and Nutrition | Vegetables | Nutrigarden | 25 | 1 |
| 4 | Value Addition | - | - | - | - |
| 5 | Women Empowerment | - | - | - | - |
| 6 | Others, pl. specify | - | - | - | - |
|  |  | - | - | - | - |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop/ enterprise | Farming situation | Problem definition | Title of OFT | No. of  trials | Technology Assessed | Source of technology | Yield | Unit of yield | Observations other than yield | Gross Return Rs. / unit | Net Return Rs. / unit | BC Ratio (Gross income/ Gross Cost) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Rice |  | Non availability of High yielding long duration rice varieties for the first crop season suited for Wayanad | Assessment of high yielding rice varieties for Nancha season in Wayanad |  | TO1: Valichoori  TO2: Akshaya  TO3: Supriya | KAU | TO1: 39.5  TO2: 50.5  TO3: 47 | Quintals | - | TO1: 1,11,390  TO2: 1,42,410  TO3: 1,32,540 | TO1: 41,190  TO2: 72,210  TO3:  62,340 | TO1: 1.58  TO2:  2.02  TO3: 1.88 |
| Yam,  Marigold |  | No income for farmers in the initial stages of coffee and lack of popularisation of tubers in Wayanad. | Assessment on intercropping of different crops in young coffee plantation (intercrops with different combination of crops) | 5 | Neelima, M2, M1 | CTCRI | Yarm:80qt  Marigold:9.6 | Quintals | -- | Yarm 2,40,000  Marigold  2,88,750 | Yarm 90,000  Marigold  96,250 | Yam:1.6  Marigold: 1.5 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

4. C2. Feedback on technologies assessed

|  |  |  |
| --- | --- | --- |
| Name of technology assessed | Useful characters as well as constraints of technology | Socio-economic as well as administrative constraints for its adoption |
| - | - | - |
| - | - | - |
| - | - | - |

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

**I.**

1. Title of Technology Assessed :**Assessment of high yielding rice varieties for Nancha season in Wayanad**
2. Performance of the Technology on specific indicators:The grain yield of Supriya was higher than Akshaya and Valichoori

3.Specific Feedback from farmers: Farmers preferred rice variety Supriya as it was comparatively tolerant to pest and disease and gave higher yield

4.Specific Feedback from Extension personnel and other stakeholders

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

6. Feedback on usefulness and constraints of technology

II.

1. **Title of Technology Assessed :Assessment ofdifferent intercrops in young coffee plantation**

2. Performance of the Technology on specific indicators:

3.Specific Feedback from farmers: Additional income generated by farmers

4.Specific Feedback from Extension personnel and other stakeholders

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

6. Feedback on usefulness and constraints of technology

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

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

4. D2. Feedback on technologies refined

|  |  |  |
| --- | --- | --- |
| Name of technology refined | Useful characters as well as constraints of technology | Socio-economic as well as administrative constraints for its adoption |
| - | - | - |

4.D.2. Details of Technologies refined:

1. Title of Technology Refined

2. Performance of the Technology on specific indicators

3. Specific Feedback from farmers

4. Specific Feedback from Extension personnel and other stakeholders

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

6. Feedback on usefulness and constraints of technology

**PART V - FRONTLINE DEMONSTRATIONS**

**5.A. Summary of FLDs implemented**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Category | Farming  Situation | Season | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Area (ha) | | Farmers (No.) | | Farmers (No.) | |
| Proposed | Actual | SC/ST | Others | Small/ Marginal | Others |
|  | Oilseeds | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | Pulses | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | Cereals | Rainfed | Kharif | Paddy | Uma |  | Drudgery reduction | ICT in Agriculture | 4 | 4 |  | 5 | Small |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Millets | Rainfed |  | Finger millet | ATL - 1 |  | Drought resistant | Drought resistant varietal evaluation | 2 | 2 |  | 10 | Small |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Vegetables | Irrigated |  | Onion | ArkaKalyan |  |  | Varietial evaluation | 0.06 | 0.06 |  | 3 | Small |  |
|  |  | Irrigated |  | Carrot | PusaMeghali |  |  | Planting system | 0.06 | 0.06 |  | 3 | Small |  |
|  |  | Irrigated |  | Broccoli | Pusa Broccoli KTS-1 |  |  | Varietial evaluation | 0.2 | 0.2 |  | 10 | Small |  |
|  |  | Rainfed |  | Cluster bean | Suruchi |  |  | Varietial evaluation | 0.2 | 0.2 |  | 10 | Small |  |
|  |  | Irrigated |  | Urban home stead | vertical garden suitable for terrace garden |  |  | Promotion of homestead vegetable garden |  |  |  | 2 |  |  |
|  | Flowers | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Ornamental | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fruit | Irrigated |  | Banana | Nendran |  |  | IPM | 2 | 2 | - | 10 | Small |  |
|  |  | Irrigated |  | Watermelon | Shonima |  | Seedless watermelon | Varietial evaluation | 0.2 | 0.2 |  | 10 | Small |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Spices and condiments | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Commercial | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Medicinal and aromatic | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fodder | Rainfed |  | Fodder grass | Sorghum – COFS - 31  Stylosanthus – Scabra, Guinea grass |  | Varietal evaluation | Drought resistant fodder variety | 0.4 | 0.4 |  | 10 | Small |  |
|  | Plantation | Rainfed |  | coconut | WCT |  |  | IDM | 3 | 3 |  | 5 | Small |  |
|  | Fibre | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | Dairy | - | - | Fodder oats and fodder cowpea | Fodder oats – Var. Kent  Fodder cowpea – CO9 |  | Scientific nutrition and disease management | Improving nutrient composition of ration | 0.24 | 0.24 |  | 5 | small | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Poultry | - | - | IFS | BV 380 layer hens |  | Small income enterprises | KAU IFS unit | 1 | 1 |  | 5 | Small | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Rabbitry | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Piggery | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Sheep and goat | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Duckery | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Common carps | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Mussels | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Ornamental fishes | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  | - |  |  |  |  |  |  |
|  | Oyster mushroom | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  | - |  |  |  |  |  |  |
|  | Button mushroom | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  | - |  |  |  |  |  |  |
|  | Vermicompost | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  | - |  |  |  |  |  |  |
|  | Sericulture | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  | - |  |  |  |  |  |  |
|  | Apiculture | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  | - |  |  |  |  |  |  |
|  | Implements |  |  | Coleus peeler |  |  | Drudgery reduction | KACET Thavanoorchinese potato skin peeler | 1 | 1 |  | 5 | Small |  |
|  | Others (specify) |  |  |  |  |  | Preventing man-wild animal conflict | KAU,NIPHM,PJSTAU, ITK – Physical, chemical and biological control methods for preventing wild animal attack on crops | 5 | 5 |  | 5 | Small |  |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Category | Farming  Situation | Season  and  Year | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Season and year | Status of soil | | | | Previous crop grown |
| N | P | K | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
|  | Oilseeds | - | - | - | - | - | - |  | - | - | - | - | | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
|  | Pulses | Rainfed | January-February  2021 | Cowpea | Vanban/Kanakamai |  | Crop production | CFLD | January-February  2021 | 15 gm | 22 gm | 45 gm | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
|  | Cereals | Rained | June-July  2021 | rice | Uma | - | ICT In agriculture | FLD | June-July  2021 | 44 gm | 14gm | 108gm | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
|  | Millets | - | - | - | - | - | - |  | - | - | - | - | | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
|  | Vegetables | - | - | - | - | - | - |  | - | - | - | - | | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
|  | Flowers | - | - | - | - | - | - |  | - | - | - | - | | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
|  | Ornamental | - | - | - | - | - | - |  | - | - | - | - | - | |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
|  | Fruit | Rainfed/Irrigated | 2021 | Banana | Nendran |  | IPM | FLd |  | 260gm | 361gm | 779gm | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
|  | Spices and condiments | - | - | - | - | - | - |  | - | - | - | - | | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
|  | Commercial | - | - | - | - | - | - |  | - | - | - | - | | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
|  | Medicinal and aromatic | - | - | - | - | - | - |  | - | - | - | - | | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
|  | Fodder | - | - | - | - | - | - |  | - | - | - | - | | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
|  | Plantation | Rainfed/Irrigated | 2021 | Cocont | Local |  | IDM | FLD |  | 0.530 gm | 1.100 gm | 1.500gm | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
|  | Fibre | - | - | - | - | - | - |  | - | - | - | - | | - |

**5.B. Results of FLDs**

**5.B.1. Crops**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop | Name of the technology demonstrated | Variety | Hybrid | Farming situation | No. of Demo. | Area  (ha) | Yield (q/ha) | | |  | % Increase | Economics of demonstration (Rs./ha) | | | Economics of demonstration (Rs./ha) | | |
|  |  |  |  |  |  |  | Demo | | | Check |  | Gross  Return | Net Return | BCR | Gross  Return | Net Return | BCR |
|  |  |  |  |  |  |  | H | L | A |  |  |  |  |  |  |  |  |
| Oilseeds |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pulses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cereals | Demonstration of drone technology in rice | Drone in Agriculture |  | Rainfed | 1 | 4 | 52 | 47 | 50 | 41 | 22 | 1,41,000 | 65,000 | 1.85 | 1,15,620 | 47,220 | 1.69 |
|  | Demonstration of different pre mix herbicide (Vivaya)formulations for broad spectrum weed control in rice | Pre mix herbicide-Vivaya |  | Rainfed | 5 | 6 | 50 | 42.5 | 46 | 37 | 24.3 | 1,29,352 | 58,552 | 1.83 | 1,04,340 | 35,940 | 1.52 |
| Millets | Demonstration of finger millet variety ATL-1 in summer rice fallows |  | ATL -1 | Rain fed | 10 | 2 |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vegetables | Assessment of onion varieties in Wayanad | ArkaKalyan |  | Irrigated | 3 | 0.06 | 74 | 43 | 58.5 | 48 | 21 | 1,17,000 | 42,000 | 1.5 | 96,000 | 21,000 | 1.28 |
|  | Demonstration of ridges and furrow method of planting in carrot cultivation | PusaMeghali |  | Irrigated | 3 | 0.06 | 131 | 113 | 122 | 98 | 24 | 1,47,000 | 63,125 | 1.75 | 1,11,000 | 9,600 | 1.09 |
|  | Demonstration of broccoli (Pusa Broccoli KTS-1) in Wayanad district | Pusa Broccoli KTS-1 |  | Irrigated | 10 | 0.2 | 118.24 | 67.6 | 92.9 | 79.55 | 16.8 | 3,25,045 | 1,11,045 | 1.51 | 2,78,425 | 71,425 | 1.34 |
|  | Demonstration of inter cropping of cluster bean (Suruchi) with banana | Suruchi |  | Rainfed | 10 | 0.2 | 94 | 86 | 90 | 80 | 12.5 | 2,02,416 | 52,263 | 1.34 | 1,92,000 | 45,000 | 1.3 |
|  | Demonstration of agricultural technologies for urban homesteads in Wayanad | Urban homestead |  | Irrigated | 2 |  | 0.033 | 0.019 | 0.026 | 0 |  | 783.5 | 293.5 | 1.59 |  |  |  |
|  | Nutrigarden | For four months |  |  | 25 | 0.1 | 0.038 | 0.026 | 0.0275 |  |  | 950 | 410 | 1.76 | 565 | 215 | 1.61 |
| Flowers |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ornamental | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fruit | Demonstration of water melon Swarna /Shonima (seedless watermelon | Shonima |  | Irrigated | 10 | 0.4 | 3.1 | 1.8 | 2 | 3.8 |  | 360,000 | 2,35,000 | 2.88 |  |  |  |
|  | Intergrated pest management in banana for management of pseudostem weevil | IPM in banana |  | Rainfed | 10 | 2 | 270 | 150 | 250 | 200 | 25 | 9,00,000 | 2,75,000 | 1.45 | 4,80,000 | 1,05,000 | 1.28 |
| Spices and condiments | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Commercial | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fibre crops like cotton | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Medicinal and aromatic | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fodder | Demonstration of drought resistant fodder crop in homestead | 1.Sorgham -COFS -31  2.Stylosanthes var. Scabra  3.Forage grass- Guniea grass | - | Rainfed | 10 | 0.4 |  |  | Ongoing |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Plantation | Integrated management of bud rot in coocnut | 1% Bm 45days interval | - | Rainfed | 5 | 3 | 320 | 120 | 300 | 180 | 66.6 | 84,000 | 24,000 | 1.4 | 50,400 | 5400 | 1.12 |
|  |  |  | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fibre |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) | Demonstration of coleus skin peeler | Drudgery reduction | - |  | 5 | 0.1 |  |  | 1 | 15 | 93.33 | 15,000 | 6,500 | 1.76 | 12,000 | 4,000 | 1.5 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Demonstration of integrated control methods to prevent wild animal attack on crops | Physical chemical and biological control methods | - |  | 5 | 5 |  | Onging |  |  |  |  |  |  |  |  |  |

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

\*\* BCR= GROSS RETURN/GROSS COST

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

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

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

5. B2. Feedback on technologies demonstrated

|  |  |  |
| --- | --- | --- |
| Name of technology demonstrated | Useful characters as well as constraints of technology | Socio-economic as well as administrative constraints for its adoption |
| - | - | - |

5.B.3. Livestock and related enterprises

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Type of livestock | Name of the technology demonstrated | Breed | No. of Demo | No.  of Units | Name of the parameter with unit | Yield (kg/animal) | | | | % Increase | \*Economics of demonstration Rs./unit) | | | \*Economics of check  (Rs./unit) | | |
| Demo | | | Check if any | Gross  Return | Net Return | \*\*  BCR | Gross  Return | Net Return | \*\*  BCR |
|  |  |  |  |  |  | H | L | A |  |  |
| Dairy | Demonstration of fodder oats and fodder cowpea for improving the nutrient composition of the ration | Crossbred cattle | 5 | 5 | Milk yield (litres) |  | - | Ongoing | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Poultry | Demonstration of integrated farming system for enhancing income | BV380 layer hens | 5 | 5 | Egg production in one year | - | - | Ongoing | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rabbitry | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pigerry | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sheep and goat | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Duckery | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

\*\* BCR= Gross Return/Gross Cost

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

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

5. B4. Feedback on livestock technologies demonstrated

|  |  |  |
| --- | --- | --- |
| Name of livestock technology demonstrated | Useful characters as well as constraints of technology | Socio-economic as well as administrative constraints for its adoption |
| - | - | - |

5.B.5. Fisheries

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

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

\*\* BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

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

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

5. B6. Feedback on fisheries technologies demonstrated

|  |  |  |
| --- | --- | --- |
| Name of fisheries technology demonstrated | Useful characters as well as constraints of technology | Socio-economic as well as administrative constraints for its adoption |
| - | - | - |

5.B.7. Other enterprises

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

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

\*\* BCR= Gross Return/Gross Cost

H-High L-Low, A-Average

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

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

5. B8. Feedback on enterprises demonstrated

|  |  |  |
| --- | --- | --- |
| Name of enterprise demonstrated | Useful characters as well as constraints of technology | Socio-economic as well as administrative constraints for its adoption |
| - | - | - |

5.B.9. Farm implements and machinery

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name of the implement | Cost of the implement in Rs. | Name of the technology demonstrated | No. of Demo | Area covered under demo  in ha | Name of the operation with unit | Labour requirement in Mandays | | % save | Savings in labour (Rs./ha) | \*Economics of demonstration (Rs./ha) | | | \*Economics of check  (Rs./ha) | | |
| Demo | Check | Gross  Return | Net Return | \*\*  BCR | Gross  Return | Net Return | \*\*  BCR |
|  |  |  |  |  |  |  |  |  |  |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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

\*\* BCR= Gross Return/Gross Cost

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

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

5. B10. Feedback on farm implements demonstrated

|  |  |  |
| --- | --- | --- |
| Name of farm implement demonstrated | Useful characters as well as constraints of technology | Socio-economic as well as administrative constraints for its adoption |
| - | - | - |
| - | - | - |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.No.** | **Activity** | **No. of activities organised** | **Number of participants** | **Remarks** |
| 1 | Field days | - | - | - |
| 2 | Farmers Training | 32 | 186 | - |
| 3 | Media coverage | 12 | - | - |
| 4 | Training for extension functionaries | 16 | 29 | - |
| 5 | Others (Please specify) | - | - | - |

**PART VI – DEMONSTRATIONS ON CROP HYBRIDS**

**Demonstration details on crop hybrids**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Type of Breed | Name of the technology demonstrated | Name of the hybrid | No. of Demo | Area (ha) | Yield (q/ha) | | | | % Increase | \*Economics of demonstration (Rs./ha) | | | \*Economics of check  (Rs./ha) | | |
| Demo | | | Check | Gross  Return | Net Return | \*\*  BCR | Gross  Return | Net Return | \*\*  BCR |
|  |  |  |  |  | H | L | A |  |  |
| **Cereals** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Bajra | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Maize | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Paddy | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sorghum | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Wheat | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Oilseeds** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Castor | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Mustard | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sesame | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sunflower | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Groundnut | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Soybean | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Pulses** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Greengram | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Blackgram | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Bengalgram | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Redgram | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Vegetable crops** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Bottle gourd | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Capsicum | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cucumber | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tomato | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Brinjal | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Okra | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Onion | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Potato | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Field bean | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Commercial crops** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sugarcane | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Coconut | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Fodder crops | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Maize (Fodder) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sorghum (Fodder) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

H-High L-Low, A-Average

\*Please ensure that the name of the hybrid is correct pertaining to the crop specified

Feedback on crop hybrids demonstrated

|  |  |  |
| --- | --- | --- |
| Name of crop hybrid demonstrated | Useful characters as well as constraints of technology | Socio-economic as well as administrative constraints for its adoption |
| - | - | - |
| - | - | - |

**PART VII. TRAINING**

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

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | |
| **General** | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| **Crop Production** | - | - | - | - | - | - | - | - | - | - |
| Weed Management | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Resource Conservation Technologies | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Cropping Systems | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Crop Diversification | **1** | **19** | **2** | **21** | **1** | **0** | **1** | **20** | **2** | **22** |
| Integrated Farming | **7** | **50** | **10** | **60** | **2** | **7** | **9** | **52** | **17** | **69** |
| Micro Irrigation/Irrigation | **2** | **40** | **2** | **42** | **5** | **1** | **6** | **45** | **3** | **48** |
| Seed production | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Nursery management | **15** | **152** | **250** | **402** | **7** | **13** | **20** | **159** | **263** | **422** |
| Integrated Crop Management | **3** | **29** | **8** | **37** | **4** | **5** | **9** | **33** | **13** | **46** |
| oil and Water Conservation | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Integrated Nutrient Management | **1** | **2** | **6** | **8** | **2** | **4** | **6** | **4** | **10** | **14** |
| Production of organic inputs | **1** | **2** | **6** | **8** | **2** | **4** | **6** | **4** | **10** | **14** |
| Others (pl.specify) | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **Horticulture** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **a) Vegetable Crops** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Production of low value and high volume crop | **1** | **2** | **30** | **32** | **2** | **22** | **24** | **4** | **52** | **56** |
| Off-season vegetables | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Nursery raising | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Exotic vegetables | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Export potential vegetables | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Grading and standardization | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Protective cultivation | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Others (pl.specify) | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **b) Fruits** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Training and Pruning | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Layout and Management of Orchards | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Cultivation of Fruit | **12** | **30** | **43** | **163** | **37** | **32** | **61** | **109** | **75** | **224** |
| Management of young plants/orchards | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Rejuvenation of old orchards | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Export potential fruits | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Micro irrigation systems of orchards | **1** | **4** | **6** | **10** | **2** | **6** | **8** | **6** | **12** | **18** |
| Plant propagation techniques | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Others (pl.specify) | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **c) Ornamental Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery Management | **1** | **20** | **20** | **40** | **6** | **10** | **14** | **26** | **30** | **56** |
| Management of potted plants | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Export potential of ornamental plants | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Propagation techniques of Ornamental Plants | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Others (pl.specify) | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **d) Plantation crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology | **1** | **10** | **4** | **14** | **4** | **4** | **8** | **14** | **8** | **22** |
| 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 | **11** | **193** | **117** | **310** | **31** | **18** | **49** | **224** | **135** | **359** |
| 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 | **2** | **31** | **12** | **43** | **7** | **3** | **10** | **38** | **15** | **53** |
| Integrated water management | **2** | **5** | **15** | **20** | **5** | **11** | **16** | **10** | **26** | **36** |
| Integrated nutrient management | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Production and use of organic inputs | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Management of Problematic soils | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Micro nutrient deficiency in crops | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Nutrient use efficiency | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Balanced use of fertilizers | **1** | **80** | **40** | **120** | **8** | **1** | **9** | **88** | **41** | **129** |
| Soil and water testing | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Others (pl.specify) | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **Livestock Production and Management** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Dairy Management | **1** | **9** | **18** | **27** | **2** | **5** | **7** | **11** | **23** | **38** |
| Poultry Management | **4** | **126** | **19** | **145** | **3** | **3** | **6** | **129** | **22** | **151** |
| Piggery Management | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Rabbit Management | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Animal Nutrition Management | **1** | **7** | **28** | **35** | **2** | **5** | **7** | **9** | **33** | **44** |
| Animal Disease Management | **1** | **24** | **9** | **33** | **-** | **-** | **-** | **24** | **9** | **33** |
| Feed and Fodder technology | **1** | **14** | **25** | **39** | **-** | **1** | **1** | **14** | **26** | **40** |
| Production of quality animal products | **1** | **7** | **34** | **41** | **-** | **-** | **-** | **7** | **34** | **41** |
| Others (pl.specify)  Goat rearing | **5** | **156** | **50** | **206** | **9** | **22** | **33** | **165** | **54** | **219** |
| **Home Science/Women empowerment** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Household food security by kitchen gardening and nutrition gardening | **7** | **280** | **370** | **650** | **12** | **33** | **46** | **292** | **403** | **695** |
| Food safety | **2** | **20** | **8** | **28** | **4** | **2** | **6** | **24** | **10** | **34** |
| Design and development of low/minimum cost diet | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Designing and development for high nutrient efficiency diet | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Minimization of nutrient loss in processing | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Processing and cooking | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Gender mainstreaming through SHGs | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Storage loss minimization techniques | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Value addition | **16** | **45** | **361** | **406** | **1** | **21** | **22** | **46** | **382** | **428** |
| Women empowerment | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Location specific drudgery production | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Rural Crafts | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Women and child care | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Others (pl.specify) | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **Agril. Engineering** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Farm machinery and its maintenance | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Installation and maintenance of micro irrigation systems | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Use of Plastics in farming practices | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Production of small tools and implements | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Repair and maintenance of farm machinery and implements | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Small scale processing and value addition | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Post Harvest Technology | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Others (pl.specify) | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **Plant Protection** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Integrated Pest Management | **5** | **171** | **142** | **313** | **4** | **12** | **16** | **175** | **154** | **329** |
| Integrated Disease Management | **1** | **20** | **30** | **50** | **9** | **4** | **13** | **29** | **34** | **64** |
| 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 | **9** | **60** | **70** | **130** | **6** | **2** | **8** | **66** | **72** | **138** |
| Bio-pesticides production | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Bio-fertilizer production | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Vermi-compost production | **2** | **19** | **77** | **96** | **5** | **8** | **13** | **41** | **159** | **200** |
| Organic manures production | **10** | **111** | **151** | **264** | **9** | **21** | **30** | **120** | **172** | **292** |
| Production of fry and fingerlings | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Production of Bee-colonies and wax sheets | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Small tools and implements | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Production of livestock feed and fodder | **1** | **9** | **16** | **25** | **9** | **14** | **23** | **18** | **30** | **48** |
| Production of Fish feed | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Mushroom production | **10** | **13** | **120** | **57** | **2** | **7** | **9** | **13** | **127** | **142** |
| Apiculture | **4** | **46** | **31** | **77** | **7** | **3** | **10** | **53** | **34** | **87** |
| Others (pl.specify) | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **CapacityBuilding and Group Dynamics** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Leadership development | **1** | **10** | **5** | **15** | **3** | **2** | **5** | **13** | **7** | **20** |
| Group dynamics | **2** | **83** | **11** | **94** | **5** | **2** | **7** | **88** | **13** | **101** |
| Formation and Management of SHGs | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Mobilization of social capital | **2** | **11** | **7** | **18** | **4** | **7** | **11** | **15** | **14** | **29** |
| Entrepreneurial development of farmers/youths | **4** | **82** | **35** | **117** | **26** | **17** | **43** | **109** | **46** | **155** |
| Others (pl.specify) | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **Agro-forestry** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Production technologies | **1** | **25** | **10** | **35** | **4** | **3** | **7** | **29** | **13** | **42** |
| Nursery management | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Integrated Farming Systems | **1** | **2** | **20** | **22** | **2** | **9** | **11** | **4** | **29** | **33** |
| Others (Pl. specify) | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **TOTAL** | **154** | **1958** | **2104** | **4078** | **249** | **333** | **575** | **2265** | **2487** | **4795** |

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

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | |
| **General** | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| **Crop Production** | - | - | - | - | - | - | - | - | - | - |
| Weed Management | - | - | - | - | - | - | - | - | - | - |
| Resource Conservation Technologies | - | - | - | - | - | - | - | - | - | - |
| Cropping Systems | 1 | 10 | 2 | 12 | 9 | 0 | 9 | 19 | 2 | 21 |
| Crop Diversification | - | - | - | - | - | - | - | - | - | - |
| Integrated Farming | - | - | - | - | - | - | - | - | - | - |
| Micro Irrigation/Irrigation | - | - | - | - | - | - | - | - | - | - |
| Seed production | - | - | - | - | - | - | - | - | - | - |
| Nursery management | 3 | 36 | 0 | 36 | 0 | 0 | 0 | 36 | 0 | 36 |
| Integrated Crop Management | - | - | - | - | - | - | - | - | - | - |
| Soil and Water Conservation | - | - | - | - | - | - | - | - | - | - |
| Integrated Nutrient Management | - | - | - | - | - | - | - | - | - | - |
| Production of organic inputs | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **Horticulture** | - | - | - | - | - | - | - | - | - | - |
| **a) Vegetable Crops** | - | - | - | - | - | - | - | - | - | - |
| Production of low value and high volume crop | 3 | 30 | 62 | 92 | 16 | 5 | 21 | 46 | 68 | 114 |
| Off-season vegetables | - | - | - | - | - | - | - | - | - | - |
| Nursery raising | - | - | - | - | - | - | - | - | - | - |
| Exotic vegetables | - | - | - | - | - | - | - | - | - | - |
| Export potential vegetables | - | - | - | - | - | - | - | - | - | - |
| Grading and standardization | - | - | - | - | - | - | - | - | - | - |
| Protective cultivation | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **b) Fruits** | - | - | - | - | - | - | - | - | - | - |
| Training and Pruning | - | - | - | - | - | - | - | - | - | - |
| Layout and Management of Orchards | - | - | - | - | - | - | - | - | - | - |
| Cultivation of Fruit | 2 | 40 | 0 | 40 | 16 | 1 | 17 | 56 | 1 | 57 |
| 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 | 1 | 20 | 0 | 20 | 10 | 0 | 10 | 20 | 10 | 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 | - | - | - | - | - | - | - | - | - | - |
| Integrated water management | - | - | - | - | - | - | - | - | - | - |
| Integrated nutrient management | - | - | - | - | - | - | - | - | - | - |
| Production and use of organic inputs | - | - | - | - | - | - | - | - | - | - |
| Management of Problematic soils | - | - | - | - | - | - | - | - | - | - |
| Micro nutrient deficiency in crops | - | - | - | - | - | - | - | - | - | - |
| Nutrient use efficiency | - | - | - | - | - | - | - | - | - | - |
| Balanced use of fertilizers | - | - | - | - | - | - | - | - | - | - |
| Soil and water testing | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **Livestock Production and Management** | - | - | - | - | - | - | - | - | - | - |
| Dairy Management | - | - | - | - | - | - | - | - | - | - |
| Poultry Management | - | - | - | - | - | - | - | - | - | - |
| Piggery Management | - | - | - | - | - | - | - | - | - | - |
| Rabbit Management | - | - | - | - | - | - | - | - | - | - |
| Animal Nutrition Management | - | - | - | - | - | - | - | - | - | - |
| Animal Disease Management | - | - | - | - | - | - | - | - | - | - |
| Feed and Fodder technology | - | - | - | - | - | - | - | - | - | - |
| Production of quality animal products | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **Home Science/Women empowerment** | - | - | - | - | - | - | - | - | - | - |
| Household food security by kitchen gardening and nutrition gardening | - | - | - | - | - | - | - | - | - | - |
| Design and development of low/minimum cost diet | - | - | - | - | - | - | - | - | - | - |
| Designing and development for high nutrient efficiency diet | - | - | - | - | - | - | - | - | - | - |
| Minimization of nutrient loss in processing | - | - | - | - | - | - | - | - | - | - |
| Processing and cooking | - | - | - | - | - | - | - | - | - | - |
| Gender mainstreaming through SHGs | - | - | - | - | - | - | - | - | - | - |
| Storage loss minimization techniques | - | - | - | - | - | - | - | - | - | - |
| Value addition | - | - | - | - | - | - | - | - | - | - |
| Women empowerment | - | - | - | - | - | - | - | - | - | - |
| Location specific drudgery production | - | - | - | - | - | - | - | - | - | - |
| Rural Crafts | - | - | - | - | - | - | - | - | - | - |
| Women and child care | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **Agril. Engineering** | - | - | - | - | - | - | - | - | - | - |
| Farm machinery and its maintenance | - | - | - | - | - | - | - | - | - | - |
| Installation and maintenance of micro irrigation systems | - | - | - | - | - | - | - | - | - | - |
| Use of Plastics in farming practices | - | - | - | - | - | - | - | - | - | - |
| Production of small tools and implements | - | - | - | - | - | - | - | - | - | - |
| Repair and maintenance of farm machinery and implements | - | - | - | - | - | - | - | - | - | - |
| Small scale processing and value addition | - | - | - | - | - | - | - | - | - | - |
| Post Harvest Technology | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **Plant Protection** | - | - | - | - | - | - | - | - | - | - |
| Integrated Pest Management | - | - | - | - | - | - | - | - | - | - |
| Integrated Disease Management | - | - | - | - | - | - | - | - | - | - |
| 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 | **1** | **16** | **0** | **16** | **1** | **0** | **1** | **16** | **1** | **17** |
| Production of fry and fingerlings | - | - | - | - | - | - | - | - | - | - |
| Production of Bee-colonies and wax sheets | - | - | - | - | - | - | - | - | - | - |
| Small tools and implements | - | - | - | - | - | - | - | - | - | - |
| Production of livestock feed and fodder | - | - | - | - | - | - | - | - | - | - |
| Production of Fish feed | - | - | - | - | - | - | - | - | - | - |
| Mushroom production | - | - | - | - | - | - | - | - | - | - |
| Apiculture | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **CapacityBuilding and Group Dynamics** | - | - | - | - | - | - | - | - | - | - |
| Leadership development | - | - | - | - | - | - | - | - | - | - |
| Group dynamics | - | - | - | - | - | - | - | - | - | - |
| Formation and Management of SHGs | - | - | - | - | - | - | - | - | - | - |
| Mobilization of social capital | - | - | - | - | - | - | - | - | - | - |
| Entrepreneurial development of farmers/youths | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **Agro-forestry** | - | - | - | - | - | - | - | - | - | - |
| Production technologies | - | - | - | - | - | - | - | - | - | - |
| Nursery management | - | - | - | - | - | - | - | - | - | - |
| Integrated Farming Systems | - | - | - | - | - | - | - | - | - | - |
| Others (Pl. specify) | - | - | - | - | - | - | - | - | - | - |
| **TOTAL** | **11** | **152** | **64** | **216** | **52** | **6** | **58** | **193** | **82** | **275** |

**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 | 4 | 30 | | 30 | 60 | 2 | 1 | 3 | 32 | 31 | 63 |
| Training and pruning of orchards | - | - | | - | - | - | - | - | - | - | - |
| Protected cultivation of vegetable crops | 1 | 3 | | 10 | 13 | 2 | 2 | 4 | 5 | 12 | 17 |
| Commercial fruit production | 4 | 50 | | 17 | 67 | 15 | 3 | 18 | 65 | 20 | 85 |
| Integrated farming | 5 | 34 | | 41 | 75 | 5 | 6 | 11 | 39 | 47 | 86 |
| Seed production | - | - | | - | - | - | - | - | - | - | - |
| Production of organic inputs | 5 | 36 | | 56 | 92 | 37 | 17 | 55 | 63 | 73 | 146 |
| Planting material production | - | - | | - | - | - | - | - | - | - | - |
| Vermi-culture | 2 | 12 | | 15 | 27 | 8 | 7 | 15 | 20 | 22 | 42 |
| Mushroom Production | 5 | 24 | | 50 | 74 | 6 | 14 | 20 | 30 | 64 | 94 |
| Bee-keeping | 1 | 10 | | 4 | 14 | 4 | 3 | 7 | 14 | 7 | 21 |
| Sericulture | - | - | | - | - | - | - | - | - | - | - |
| Repair and maintenance of farm machinery and implements | - | - | | - | - | - | - | - | - | - | - |
| Value addition | 6 | 32 | | 152 | 175 | 24 | 16 | 24 | 48 | 159 | 207 |
| Small scale processing | 1 | 18 | | 1 | 19 | 2 | 1 | 3 | 20 | 2 | 22 |
| Post Harvest Technology | - | - | | - | - | - | - | - | - | - | - |
| Tailoring and Stitching | - | - | | - | - | - | - | - | - | - | - |
| Rural Crafts | - | - | | - | - | - | - | - | - | - | - |
| Production of quality animal products | - | - | | - | - | - | - | - | - | - | - |
| Dairying | 1 | 10 | | 20 | 30 | 9 | 3 | 12 | 19 | 23 | 42 |
| Sheep and goat rearing | 1 | 10 | | 20 | 30 | 3 | 2 | 5 | 13 | 22 | 35 |
| Quail farming | - | - | | - | - | - | - | - | - | - | - |
| Piggery | - | - | | - | - | - | - | - | - | - | - |
| Rabbit farming | - | - | | - | - | - | - | - | - | - | - |
| Poultry production | 1 | 0 | | 10 | 10 | 0 | 10 | 10 | 0 | 20 | 20 |
| 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)  Swachhatapakhawada awareness programme KVK  Vegetable farming and crop production  Kitchen Gardening  Integrated Pest management  Bio control Agent production  Entrepreneurial Development of Youth  Trainig on higher education and employment opportunities  In the agriculture sector  Awareness programme on “energy conservation” | 1  4  3  4  1  1  1  1 | 2  20  22  20  20  20  1  20 | | 5  30  30  40  20  10  10  8 | 7  50  52  60  40  30  11  28 | 0  6  6  3  8  2  0  11 | 5  8  4  4  7  3  4  8 | 5  14  10  7  15  5  4  19 | 2  26  28  23  28  22  1  31 | 10  38  34  44  27  13  14  16 | 12  64  62  67  55  35  15  47 |
| **TOTAL** | **53** | **394** | | **579** | **964** | **153** | **128** | **266** | **529** | **698** | **1237** |

**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 | 1 | 20 | | 0 | | 20 | | 2 | | 0 | | 2 | | 22 | | 0 | | 22 |
| Vermi-culture | - | - | | - | | - | | - | | - | | - | | - | | - | | - |
| Mushroom Production | - | - | | - | | - | | - | | - | | - | | - | | - | | - |
| Bee-keeping | - | - | | - | | - | | - | | - | | - | | - | | - | | - |
| Sericulture | - | - | | - | | - | | - | | - | | - | | - | | - | | - |
| Repair and maintenance of farm machinery and implements | - | - | | - | | - | | - | | - | | - | | - | | - | | - |
| Value addition | - | - | | - | | - | | - | | - | | - | | - | | - | | - |
| Small scale processing | - | - | | - | | - | | - | | - | | - | | - | | - | | - |
| Post Harvest Technology | - | - | | - | | - | - | | - | | - | | - | | - | | - | |
| Tailoring and Stitching | - | - | | - | | - | - | | - | | - | | - | | - | | - | |
| Rural Crafts | - | - | | - | | - | - | | - | | - | | - | | - | | - | |
| Production of quality animal products | - | - | | - | | - | | - | | - | | - | | - | | - | | - |
| Dairying | - | - | | - | | - | | - | | - | | - | | - | | - | | - |
| Sheep and goat rearing | - | - | | - | | - | | - | | - | | - | | - | | - | | - |
| Quail farming | - | - | | - | | - | | - | | - | | - | | - | | - | | - |
| Piggery | - | - | | - | | - | | - | | - | | - | | - | | - | | - |
| Rabbit farming | - | - | | - | | - | | - | | - | | - | | - | | - | | - |
| Poultry production | - | - | | - | | - | | - | | - | | - | | - | | - | | - |
| Ornamental fisheries | - | - | | - | | - | | - | | - | | - | | - | | - | | - |
| Composite fish culture | - | - | | - | | - | | - | | - | | - | | - | | - | | - |
| Freshwater prawn culture | - | - | | - | | - | | - | | - | | - | | - | | - | | - |
| Shrimp farming | - | - | | - | | - | | - | | - | | - | | - | | - | | - |
| Pearl culture | - | - | | - | | - | | - | | - | | - | | - | | - | | - |
| Cold water fisheries | - | - | | - | | - | | - | | - | | - | | - | | - | | - |
| Fish harvest and processing technology | - | - | | - | | - | | - | | - | | - | | - | | - | | - |
| Fry and fingerling rearing | - | - | | - | | - | | - | | - | | - | | - | | - | | - |
| Any other (pl.specify)  Propagation methods of pepper  Traing on pulse production | 1  1 | 15  20 | | 0  4 | | 15  24 | | 5  2 | | 0  4 | | 5  6 | | 20  22 | | 0  8 | | 20  30 |
| **TOTAL** | **3** | **55** | | **4** | | **59** | **9** | | **4** | | **13** | | **64** | | **8** | | **72** | |

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

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | | |
| **General** | | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| Productivity enhancement in field crops | 1 | 30 | 1 | | 31 | 9 | 0 | 9 | 39 | 1 | 40 |
| Integrated Pest Management | - | - | - | | - | - | - | - | - | - | - |
| Integrated Nutrient management | 2 | 65 | 1 | | 66 | 11 | 3 | 14 | 73 | 4 | 80 |
| Rejuvenation of old orchards | - | - | - | | - | - | - | - | - | - | - |
| Protected cultivation technology | 3 | 93 | 3 | | 96 | 10 | 0 | 10 | 103 | 3 | 106 |
| Production and use of organic inputs | - | - | - | | - | - | - | - | - | - | - |
| Care and maintenance of farm machinery and implements | 1 | 10 | 6 | | 16 | 1 | 3 | 4 | 11 | 9 | 20 |
| 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 | 2 | 40 | 3 | | 43 | 14 | 3 | 17 | 54 | 4 | 58 |
| Management in farm animals | - | - | - | | - | - | - | - | - | - | - |
| Livestock feed and fodder production | - | - | - | | - | - | - | - | - | - | - |
| Household food security | - | - | - | | - | - | - | - | - | - | - |
| Any other (pl.specific | | | | | | | | | | | |
| Consultative workshop on Agricultural problems in Wayanad (Pre- SAC:DOA interface ) | - | - | | - | - | - | - | - | - | - | - |
| Training to DAESI participants  Training on Bee Keeping  Green Carpet Training for Kudumbashree units  Agripreneurship training programme for tea farming community  PMFME Scheme training programme for district level trainers -EDP AND ODOP pokkod  Training on sources and approximate coasts of farm impliments and machinaries for DAESI KVK | 1  1  6  1  1 | 10  30  44  0  40 | | 10  1  30  15  2 | 20  31  74  15  42 | 5  9  12  0  1 | 4  0  10  5  1 | 9  9  22  5  2 | 15  39  56  0  41 | 1  1  40  20  3 | 29  40  96  20  44 |
| 1  1 | 2  34 | | 1  1 | 3  35 | 2  2 | 0  0 | 2  2 | 4  36 | 1  1 | 5  37 |
| Precautionary measures in procurement ,handling and application of chemical and other agricultural inputs | 1 | 10 | | 5 | 15 | 1 | 4 | 5 | 11 | 9 | 20 |
| Training on Stress management | 1 | 30 | | 1 | 31 | 6 | 0 | 6 | 36 | 1 | 37 |
| **Total** | **23** | **438** | | **80** | **518** | **83** | **33** | **116** | **518** | **98** | **632** |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | | | |
| **General** | | | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | | **Total** | | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| Productivity enhancement in field crops | 2 | 37 | | 2 | | 39 | 38 | 0 | 38 | 65 | 2 | 77 |
| Integrated Pest Management | - | - | | - | | - | - | - | - | - | - | - |
| Integrated Nutrient management | 7 | 65 | | 19 | | 84 | 33 | 16 | 49 | 98 | 35 | 144 |
| Rejuvenation of old orchards | - | - | | - | | - | - | - | - | - | - | - |
| Protected cultivation technology | - | - | | - | | - | - | - | - | - | - | - |
| Production and use of organic inputs | 2 | 60 | | 1 | | 61 | 11 | 1 | 12 | 71 | 2 | 73 |
| 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 | 1 | 30 | | 1 | | 31 | 8 | 0 | 8 | 38 | 1 | 39 |
| Information networking among farmers | 1 | 20 | | 1 | | 21 | 9 | 0 | 9 | 29 | 1 | 30 |
| Capacity building for ICT application | 1 | 30 | | 1 | | 31 | 8 | 0 | 8 | 38 | 1 | 39 |
| Management in farm animals | - | - | | - | | - | - | - | - | - | - | - |
| Livestock feed and fodder production | - | - | | - | | - | - | - | - | - | - | - |
| Household food security | - | - | | - | | - | - | - | - | - | - | - |
| Any other (pl.specify) | - | - | | - | | - | - | - | - | - | - | - |
| **Total** | 14 | 242 | | 25 | | 267 | 107 | 17 | 124 | 339 | 42 | 402 |

7.G. Sponsored training programmes conducted

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No.** | **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | |
| **General** | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| **1** | **Crop production and management** | - | - | - | - | - | - | - | - | - | - |
| 1.a. | Increasing production and productivity of crops | - | - | - | - | - | - | - | - | - | - |
| 1.b. | Commercial production of vegetables | - | - | - | - | - | - | - | - | - | - |
| **2** | **Production and value addition** | - | - | - | - | - | - | - | - | - | - |
| 2.a. | Fruit Plants | - | - | - | - | - | - | - | - | - | - |
| 2.b. | Ornamental plants | **1** | **20** | **0** | **20** | **10** | **0** | **10** | **30** | **0** | **30** |
| 2.c. | Spices crops | - | - | - | - | - | - | - | - | - | - |
| **3.** | **Soil health and fertility management** | - | - | - | - | - | - | - | - | - | - |
| **4** | **Production of Inputs at site** | - | - | - | - | - | - | - | - | - | - |
| **5** | **Methods of protective cultivation** | - | - | - | - | - | - | - | - | - | - |
| **6** | **Others (pl.specify)** | - | - | - | - | - | - | - | - | - | - |
| **7** | **Post harvest technology and value addition** | - | - | - | - | - | - | - | - | - | - |
| 7.a. | Processing and value addition | - | - | - | - | - | - | - | - | - | - |
| 7.b. | Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **8** | **Farm machinery** | - | - | - | - | - | - | - | - | - | - |
| 8.a. | Farm machinery, tools and implements | - | - | - | - | - | - | - | - | - | - |
| 8.b. | Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **9.** | **Livestock and fisheries** | - | - | - | - | - | - | - | - | - | - |
| **10** | **Livestock production and management** | - | - | - | - | - | - | - | - | - | - |
| 10.a. | Animal Nutrition Management | - | - | - | - | - | - | - | - | - | - |
| 10.b. | Animal Disease Management | - | - | - | - | - | - | - | - | - | - |
| 10.c | Fisheries Nutrition | - | - | - | - | - | - | - | - | - | - |
| 10.d | Fisheries Management | - | - | - | - | - | - | - | - | - | - |
| 10.e. | Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **11.** | **Home Science** | - | - | - | - | - | - | - | - | - | - |
| 11.a. | Household nutritional security | - | - | - | - | - | - | - | - | - | - |
| 11.b. | Economic empowerment of women | - | - | - | - | - | - | - | - | - | - |
| 11.c. | Drudgery reduction of women | - | - | - | - | - | - | - | - | - | - |
| 11.d. | Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **12** | **Agricultural Extension** | - | - | - | - | - | - | - | - | - | - |
| 12.a. | CapacityBuilding and Group Dynamics | - | - | - | - | - | - | - | - | - | - |
| 12.b. | Others (pl.specify)  \* Agripreneurshipprogramme for tea farming community | 1 | 20 | 21 | 41 | 1 | 2 | 3 | 21 | 23 | 44 |
|  | **Total** | **2** | **40** | **21** | **61** | **11** | **2** | **13** | **51** | **23** | **74** |

**Details of sponsoring agencies involved**

1. Kudumbashree

2. Tea 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** | **10** | **10** | **20** | **8** | **2** | **10** | **18** | **12** | **30** |
| 1.d. | Integrated crop management | - | - | - | - | - | - | - | - | - | - |
| 1.e. | Organic farming | - | - | - | - | - | - | - | - | - | - |
| 1.f. | Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **2** | **Post harvest technology and value addition** |  |  |  |  |  |  |  |  |  |  |
| 2.a. | Value addition | - | - | - | - | - | - | - | - | - | - |
| 2.b. | Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **3.** | **Livestock and fisheries** |  |  |  |  |  |  |  |  |  |  |
| 3.a. | Dairy farming | - | - | - | - | - | - | - | - | - | - |
| 3.b. | Composite fish culture | - | - | - | - | - | - | - | - | - | - |
| 3.c. | Sheep and goat rearing | - | - | - | - | - | - | - | - | - | - |
| 3.d. | Piggery | - | - | - | - | - | - | - | - | - | - |
| 3.e. | Poultry farming | - | - | - | - | - | - | - | - | - | - |
| 3.f. | Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **4.** | **Income generation activities** |  |  |  |  |  |  |  |  |  |  |
| 4.a. | Vermi-composting | - | - | - | - | - | - | - | - | - | - |
| 4.b. | Production of bio-agents, bio-pesticides,  bio-fertilizers etc. | - | - | - | - | - | - | - | - | - | - |
| 4.c. | Repair and maintenance of farm machinery  and implements | - | - | - | - | - | - | - | - | - | - |
| 4.d. | Rural Crafts | - | - | - | - | - | - | - | - | - | - |
| 4.e. | Seed production | - | - | - | - | - | - | - | - | - | - |
| 4.f. | Sericulture | - | - | - | - | - | - | - | - | - | - |
| 4.g. | Mushroom cultivation | - | - | - | - | - | - | - | - | - | - |
| 4.h. | Nursery, grafting etc. | - | - | - | - | - | - | - | - | - | - |
| 4.i. | Tailoring, stitching, embroidery, dying etc. | - | - | - | - | - | - | - | - | - | - |
| 4.j. | Agril. para-workers, para-vet training | - | - | - | - | - | - | - | - | - | - |
| 4.k. | Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| **5** | **Agricultural Extension** |  |  |  |  |  |  |  |  |  |  |
| 5.a. | Capacity building and group dynamics | - | - | - | - | - | - | - | - | - | - |
| 5.b. | Others (pl.specify)  RAWE | 4 | 50 | 75 | 125 | 1 | 4 | 4 | 51 | 79 | 130 |
|  | **Grand Total** | **5** | **60** | **85** | **145** | **9** | **6** | **14** | **69** | **91** | **160** |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.**  **No.** | **Name of Job Role** | **Date**  **of Start** | **Date of Close** | **Total**  **Participants** | **No. of Participants** | | | | | | | | | **Date**  **of**  **Assessment** | **No of Participants passed**  **assessment** |
| **General** | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| **1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**PART VIII – EXTENSION ACTIVITIES**

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

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nature of Extension Programme** | **No. of Programmes** | **No. of Participants (General)** | | | **No. of Participants**  **SC / ST** | | | **No. of extension personnel** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| Advisory services | 14504 | 4305 | 3679 | 7984 | 611 | 1701 | 2312 | 1844 | 2364 | 4208 |
| Farmers visit to KVKs | 1834 | 673 | 765 | 1438 | 109 | 148 | 257 | 61 | 78 | 139 |
| Lectures delivered as resource persons | 48 | 503 | 818 | 1321 | 183 | 203 | 386 | 98 | 115 | 213 |
| Diagnostic Visits | 21 | 25 | 28 | 53 | 7 | 16 | 23 | 49 | 64 | 113 |
| Field Days | 2 | 42 | 36 | 78 | 35 | 43 | 78 | 4 | 3 | 7 |
| Group discussions/ meetings | 48 | 412 | 197 | 412 | 207 | 411 | 618 | 487 | 643 | 1130 |
| KisanGosthies | 2 | 28 | 35 | 63 | 4 | 9 | 13 | 3 | 5 | 8 |
| Film Shows | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Self help group meetings | 21 | 42 | 441 | 483 | 21 | 231 | 252 | 21 | 21 | 42 |
| Mahilamandals meetings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kisan Melas | 1 | 266 | 316 | 582 | 34 | 79 | 113 | 38 | 45 | 83 |
| Exhibitions | 3 | 43 | 110 | 153 | 68 | 49 | 68 | 31 | 12 | 43 |
| Scientist visit to farmers fields | 53 | 85 | 108 | 193 | 19 | 22 | 41 | 13 | 18 | 31 |
| Soil health camps | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Animal health camps | 1 | 35 | 24 | 59 | 8 | 5 | 13 | 7 | 2 | 9 |
| Plant health camps | 5 | 67 | 27 | 94 | 13 | 16 | 29 | 4 | 3 | 7 |
| Farm Science Club meetings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ex-trainees Sammelans | 3 | 45 | 32 | 77 | 7 | 9 | 16 | 3 | 2 | 5 |
| Farmers seminars | 24 | 223 | 318 | 541 | 44 | 64 | 108 | 11 | 36 | 47 |
| Workshops | 1 | 2 | 6 | 8 | 5 | 7 | 12 | 14 | 17 | 31 |
| Method Demonstrations | 25 | 270 | 311 | 581 | 63 | 35 | 98 | 36 | 10 | 46 |
| Celebration of important days | 9 | 121 | 213 | 334 | 8 | 11 | 20 | 23 | 41 | 64 |
| Special day celebrations | 4 | 19 | 32 | 51 | 19 | 32 | 51 | 5 | 7 | 12 |
| Exposure visits | 21 | 119 | 286 | 405 | 98 | 121 | 219 | 85 | 47 | 132 |
| Others, Please specify | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **Total** |  |  |  | **14910** |  |  | **4727** |  |  | **6370** |

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

|  |  |  |
| --- | --- | --- |
| Sl. No. | **Type of media/activity** | **Number of activities/Number** |
| 1 | Popular articles | **2** |
| 2 | Newspaper coverage | **37** |
| 3 | Extension Literature | **5** |
| 4 | Radio Talks | **14** |
| 5 | TV Talks | **11** |
| 6 | CD/DVD/Video clips | **10** |
| 7 | Animal health camps (no. of animal treated) | **3** |
| 8 | Others, please specify | **-** |
|  | **Total** | **82** |

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

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Crop category | **Name of the crop** | **Name of the**  **Variety** | **Quantity of seed**  **(q)** | **Value**  **(Rs)** | **Number of farmers to whom provided** |
| Cereals (crop wise) | - | - | - | - | - |
| Oilseeds | - | - | - | - | - |
| Pulses | - | - | - | - | - |
| Commercial crops | - | - | - | - | - |
| Vegetables | - | - | - | - | - |
| Flower crops | - | - | - | - | - |
| Spices | - | - | - | - | - |
| Fodder crop seeds | - | - | - | - | - |
| Fiber crops | - | - | - | - | - |
| Forest Species | - | - | - | - | - |
| Others (specify) | - | - | - | - | - |
| **Total** | - | - | - | - | - |

**9.B. Production of hybrid seeds by the KVKs**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Crop category | **Name of crop** | **Name of the**  **hybrid** | **Quantity of seed**  **(q)** | **Value**  **(Rs)** | **Number of farmers to whom provided** |
|  | - | - | - | - | - |
|  | - | - | - | - | - |
| **Total** | - | - | - | - | - |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Crop category** | **Name of the crop** | **Variety** | **Number** | **Value (Rs.)** | **Number of farmers to whom provided** |
| Commercial  Vegetable Seedlings / cutting | - | - | 91,477 | 6,38,373 | - |
| Fruits | - | - | 15,118 | 14,81,585 | - |
| Ornamental plants | - | - | 24,412 | 7,79,595 | - |
| Medicinal and Aromatic | - | - | 303 | 6,085 | - |
| Plantation | - | - | 15,956 | 8,98,525 | - |
| Spices | - | - | 24,412 | 7,79,595 | - |
| Tuber | - | - | - | - | - |
| Fodder crop saplings | - | - | - | - | - |
| Forest Species | - | - | - | - | - |
| Azolla | - | - | 75 | 3,725 | - |
| Others(specify) | - | - | - | - | - |
| Earth Worms | - | - | 26823 | 40,125 | - |
| Vermi compost | - | - | 16759 | 5,33,215 | - |
| **Total** | - | - | **2,15,335** | **46,27,608** |  |

**9.D. Production of hybrid planting materials by the KVKs**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Crop category | **Name of crop** | **Name of the**  **hybrid** | **Quantity of seed**  **(q)** | **Value**  **(Rs)** | **Number of farmers to whom provided** |
| - | - | - | - | - | - |
| - | - | - | - | - | - |
| **Total** | - | - | - | - | - |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Bio Products** | **Name of the bio-product** | **Quantity**  **(kq)** | **Value (Rs.)** | **Number of**  **farmers to**  **whom provided** |
| Bio Fertilizers | Acetobacter | 604 | 47,108 | - |
| Azospirillum | 1023 | 85,825 | - |
| Bio potash | 381 | 12,098 | - |
| Rhizobium | 218 | 20,282 | - |
| VAM | 2288 | 68,806 | - |
| Phospho-solubilizing bacteria | 104 | 8,840 | - |
| Bio-pesticide | Beauveria | 592 | 50,323 | - |
| Verticillium | 554 | 44,761 | - |
| Pochonia | 585 | 49,611 | - |
| Paecilomvces | 231 | 52,620 |  |
| Metarhizium | 215 | 18,252 | - |
| Bio-fungicide | Trichoderma | 3107 | 2,59,268 | - |
| Pseudomonas | 2937 | 2,30,275 | - |
| Bio Agents | Pheromone trap | 322 | 49,520 | - |
| Others (specify) | - | - | - | - |
| **Total** |  | **13,161** | **9,97,589** |  |

# 9.D. Production of livestock

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Particulars of Livestock | **Name of the breed** | **Number** | **Value (Rs.)** | **Number of farmers to whom provided** |
| **Dairy animals** | - | - | - | - |
| Cows | - | - | - | - |
| Buffaloes | - | - | - | - |
| Calves | - | - | - | - |
| Goat | Malabari cross bread | **24** | **1,44,255** |  |
| Others (Pl. specify) |  |  |  |  |
| **Poultry** | Gramasree ,BV380,  Kadaknath | **4023** | **8,19,648** |  |
| 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** |  | **34047** | **9,63,903** |  |

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

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

(i) KVK Newsletter:

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

(ii) Summary of Literature developed/published

|  |  |
| --- | --- |
| **Item** | **Number** |
| Research papers- International | - |
| Research papers- National | 5 |
| Technical reports | - |
| Technical bulletins | - |
| Popular articles - English | - |
| Popular articles – Local language | 4 |
| Extension literature | - |
| Others if any | - |

(iii) Details of Literature developed/published

1. Aparna Radhakrishnan, SanjuBalan, Indulekha VP, Simi S and Sruthi Krishnan (2021) Potential Economics and Constraints of Mushroom Cultivation in Wayanad, Kerala.Journal Krishi Vigyan 2021, 9 (2) : 171-176
2. Dilip S.1\*, Allan Thomas2 and Joginder Singh Malik3 (2021) Attitudes of Students on School Vegetable Garden and Gardening Activities in Kerala.Indian Journal of Extension Education, Vol. 56, No. 2 (April-June), 2020, (89-92)
3. Safia ,N.E. and Girija,V. 2021.Factors Influencing Entrepreneurial Behavior of Women Participants in Vocational Training by Krishi Vigyan Kendra. Indian Res. Journal of Extension Education. 21 (4), :52-55
4. NajithaUmmer, BerinPathrose and Indulekha V P (2021)A new record on infestation of a millipede in agricultural crops of Kerala. Journal of Insect Environment 24(4):553-554
5. Sreelakshmi C and Allan Thomas, (2021) Technology need analysis in characterization of dominant crops and animal husbandry specialized homegardens.The Pharma Innovation Journal.2021; 10(10S): 474-476.

3.    Popular articles: Authors name, Title of the article, date of publication, Name of the newspaper/magazine, page no.

1. Safia **,N.E** ,(2021), “Adhikamullathumayiingottuvaram, puthiyathumayimadangam.” Jai Kissan Online Media
2. Ashitha M R,(2021), “PanamChurathamPazhangal” Jai Kissan Online Media
3. Safia N E, (2021), “BakshyasamskaranaRangathePuthuvazhikal” Krishiyankanam 43-44
4. Manjusha M R,(2021), “Inivalamnalkaam, Cabbaginteyum, cauliflowerinteyumkaalam” 34-35

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

|  |  |  |  |
| --- | --- | --- | --- |
| S. No. | **Type of media** | **Title** | **Details** |
| 1 | CD / DVD | **-** | **-** |
| 2 | Mobile Apps | **-** | **-** |
| 3 | Social media groups with KVK as Admin | 38 | 6840 participants included in the total of 38 whats app groups |
| 4 | Facebook account name | Kvk Wayanad Kau | **-** |
| 5 | Instagram account name | **-** | **-** |
| 6 | Others if any | **-** | **-** |

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



**Background**: Mr Arun K. G. is a farmer, practising IFS, hailing from Cheeral , Wayand District. He has completed diploma in VFX and is working as a professional reporter in asianet news for previous 15 years

**Interventions**: He has a fish farm with 7000 fish fingerlings that includes varities of Tilapia and Red belly and he has well established poultry farm and selling kadakanath , turkey and Quail at a reasonable price. The main crops he is cultivating are coffee, pepper, coconut, rubber and passion fruit. He has total area of 4.85 acres of which 1 acre is wetland. His cultivated area includes 3.85 acres of coffee plantation, pepper, banana and arecanut As an intercrop, he is also cultivating 50 cents of passion fruit. He has a wide variety of ornamental birds like love birds, cockatiels and African java. The poultry farm has 25 BV380 hens and 25 kadakanath hens. He uses poultry manure as fish food. He has polyhouse in about 4 cents and he cultivates vegetables like tomato, cauliflower cabbage, okra, pea for household purpose. He receives advice for his IFS from KVK Wayanad. He is getting annual income around 7 lakhs.

****

Mr Sabu V.U. is an orchid farmer since 5 years, living in Ambalavayal, Wayanad district. He has a garden, named as Eunoia Orchid garden. His vision is to provide best quality Orchid plants that brings the amazing beauty of nature into your garden. He has a collection of orchids from in and around South India, numbering around 2500 Orchids with 150 varieties, that includes Dendrobium, Phalaenopsis, Vanda, Mukkara, Tolumina, Oncidium, Cattelya, etc. Apart from these, more than 40 varieties of wild Orchids (native Orchids) are collected and sheltered under a wild crown. His planting techniques include terrarium, table tops, coconut shell, mud pods, glass pods, hydroponics, Bamboo trees, woods etc. Propagation methods include pollination, layering and cut propagation. Hardening unit is available where the tissue culture plants are deflasked (more than 1000 plants can be placed in hardening unit at a time) and kept. This garden is facilitated with a music system, solar light system and misty water irrigation. Mr. Sabu has won the best Orchid farmer award from GVHSS Ambalavayal in 2021. He is earning an average monthly income 1.5 lakhs

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

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

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

10 F. Technology Week celebration:

Period of observing Technology Week : From 27-12-2021 to 31-12-2021

Total number of farmers visited : 778

Total number of agencies involved : 9

Number of demonstrations visited by the farmers within KVK campus :8

Other Details

| **Types of Activities** | **No. of**  **Activities** | **Number of**  **Farmers** | **Related crop/livestock technology** |
| --- | --- | --- | --- |
| Gosthies | - | - | - |
| Lectures organized | 8 | 395 | Fodder cultivation, pepper, Animal husbandry, Fish, Passion fruit and Banana |
| Exhibition | 1 | 8 | Tapioca, Yam |
| Film show | 0 | 0 | - |
| Fair | 0 | 0 | - |
| Farm Visit | 5 | 305 | - |
| Diagnostic Practicals | 1 | 17 | Biocontrol agents |
| Supply of Literature (No.) | 14 | 14 | Mushroom, Banana, Coffee, Trichoderma, Passion fruit |
| Supply of Seed (q) | - | - | - |
| Supply of Planting materials (No.) | 28 | 14 | Pepper |
| Bio Product supply (Kg) | 34 | 13 | Sampoorna, Trichoderma, Borep |
| Bio Fertilizers (q) | - | - | - |
| Supply of fingerlings | - | - | - |
| Supply of Livestock specimen (No.) | 12 | 12 | Goats |
| Total number of farmers visited the technology week | 103 | 778 | - |

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

**PART XI – SOIL AND WATER TEST**

**11.1 Soil and Water Testing Laboratory**

**A. Status of establishment of Lab :**

1. Year of establishment : 2007

2. List of equipments purchased with amount :

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.No.** | **Name of the Equipment** | **Qty** | **Cost** |
| 1 | Mini Soil Testing Kit | 1 | 90,300 |
| 2 | Flame photometer | 1 | 41,184 |
| 3 | Digital Burette system | 1 | 68,580 |
| 4 | Digital Nephelometer/ Turbiditymeter | 1 | 15,900 |
| 5 | Spectrophotometer Model GENE SYS-20 | 1 | 96570 |
| 6 | Portable Mini pH meter model LT-14 | 1 | 3210 |
| 7 | Digital conductivity meter model LT-14 | 1 | 4800 |
| 8 | Electronic balance model GE 7101 | 1 | 27300 |
| 10 | Eutech pH meter with electrode pH | 1 | 19260 |
| 11 | Multipurpose stirrer with 11/4 20 HP motor | 1 | 2670 |
| 12 | Laboratory shaker model RRS-06 | 1 | 15560 |
| 13 | Water bath Rotex RRW-12 (355 x 405 x 100 mm) | 1 | 4400 |
| 14 | Laboratory centrifuge model-8E with model AH1 | 1 | 6544 |
| 15 | Flame chamber rotex model | 1 | 39300 |
| 16 | Electronic analytical balance model No. APX 203 | 1 | 38765 |
| 17 | Refrigerator 200 & 500 litre model | 1 | 62109 |
| 18 | Hot plates | 1 | 3900 |
| 19 | Coil stove | 1 | 1775 |
| 11 | Turbo mixer grinder | 1 | 2295 |
| 12 | Labtronics digital conductivity meter | 1 | 4800 |
| 13 | Liquefied Petroleum Gas (LPG) Cylinder connection | 1 | 2329 |
| 14 | pH meter (ELICO) | 1 | 6525 |
| 15 | Digital balance GE812 | 1 | 29750 |
| 16 | Digital weighing balance | 1 | 11340 |
| 17 | Refrigerator | 1 | 36300 |
| 18 | Water still â€“ All glass single | 1 | 12696 |
| 19 | Eutech Bench Type Conductivity/TDS/Temp. meter | 1 | 30615 |
| 20 | Atomic Absorption Spectro Photometer, AAS | 1 | 1110901 |
| 21 | Mini Soil Testing Kit | 1 | 90,000 |
| 22 | Flame photometer | 1 | 41,184 |
| 23 | Digital Burette system | 1 | 68,580 |
| 24 | Water Quality Analyser | 1 | 62,900 |
| 25 | Digital Nephelometer/Turbiditymeter | 1 | 15,900 |

B. Details of samples analyzed since establishment of SWTL:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages | Amount realized (Rs.) |
| Soil Samples | 950 | 950 | 8 | 1,54,290 |
| Water Samples | 6 | 6 | 3 | 600 |
| Plant samples | - | - | - | - |
| Manure samples | - | - | - | - |
| Others (specify) | - | - | - | - |
| Total | 956 | 956 | 11 | 1,54,890 |

C. Details of samples analyzed during 2021:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages | Amount realized (Rs.) |
| Soil Samples | 950 | 950 | 8 | 1,54,290 |
| Water Samples | 6 | 6 | 3 | 600 |
| Plant samples | - | - | - | - |
| Manure samples | - | - | - | - |
| Others (specify) | - | - | - | - |
| Total | 956 | 956 | 11 | 1,54,890 |

11.2 Mobile Soil Testing Kit

A. Date of purchase and current status

|  |  |  |
| --- | --- | --- |
| Mobile Kits | Date of purchase | Current status |
| 1. | 16/3/2017 | Working |

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

|  |  |  |  |
| --- | --- | --- | --- |
|  | During 2020 | During 2021 | Cumulative progress (Total) |
| Samples analyzed (No.) | 32 | 50 | 18 |  |
| Farmers benefited (No.) | 32 | 50 | 18 |
| Villages covered (No.) | 14 | 11 | - |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Particulars | Date (s) | Villages (No.) | Farmers (No.) | Samples analyzed (No.) | Soil health cards issued (No.) |
| SWTL |  | 11 | 900 | 900 | 900 |
| Mobile Soil Testing Kit |  | 11 | 50 | 50 | 50 |

11.4 World Soil Health Day celebration

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Farmers participated (No.) | Soil health cards issued (No.) | VIPs (MP/ Minister/MLA attended (No.) | Other Public Representatives participated | Officials participated (No.) | Media coverage (No.) |
| 1 | 65 | 0 | 1 | - | 5 | 2 |

**PART XII. IMPACT**

**12.A. Impact of KVK activities (Not restricted for reporting period).**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of specific technology/skill transferred** | **No. of participants** | **% of adoption** | **Change in income (Rs.)** | |
| **Before (Rs./Unit)** | **After (Rs./Unit)** |
| Mushroom production | 35 | 95% | 2000 | 10,000 |
| Ecofriendly management of Banana pest and diseases using biocontrol agents | 10 | 20% | - | - |
| CFC | A total of 5500 kg Agricultural produce were processed to different value added products.  Horticorp utilized the facility for processing 3ton of cassava processed directly from farmers. | 30% | 17,500 | 35,000 |
| Introduction of broccoli for cool season vegetable. | 10 | 5 | 10,000 | 26562 |
| Demonstration ofSampoorna KAU multimix in rice | 10 | 30 | 2430 | 2680 |

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

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

Technology developed by KAU for INM, namely Sampoorna has become popular among farmers and 1265kg has been sold from this Kendra in 2021.



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

**PART XIII - LINKAGES**

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

|  |  |
| --- | --- |
| **Name of organization** | **Nature of linkage** |
| NESTLÉ INDIA LTD. | Agripreneurship programme for Tea farming community |
| CIFT (SCSP COMPONENT)  WORLD FISH PROJECT | Training on Fish processing andentrepreneurship development programme  Survey |
| AICRP on forages, RARS (SZ), VELLAYANI | Distribution of 400 layer hens, 17 goats, agricultural implements and fodder slips |
| KUDUMBASHREE | Programmes conducted by KVK Wayanad in association with KudumbashreeWayanad |
| ATMA | On-campus and off-campus trainings  MTA meeting |
| ANIMAL HUSBANDRY DEPARTMENT | “Mukhamukham” and Trainings |
| ENERGY MANAGEMENT CENTRE | Trainings |
| AGRICULTURE DEVELOPMENT AND FARMERS WELFARE DEPARTMENT | Training for pest scout in crop health management, multi-disciplinary diagnostic team visit  Input distribution |
| NABARD | Visit |
| HORTICORP | Utilization of CFC |
| MANAGE | Trainings |
| VFPCK | Supply of inputs  Site Visit  Utilization of CFC |
| SHM | Supply of inputs |
| MSME | Expert visit-Inspection of Processing unit |

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

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of the scheme** | **Date/ Month of initiation** | **Funding agency** | **Amount (Rs.)** |
| 405-31-08287 National Horticultural mission on spices and aromatic plants | **2021** | MIDH | 0.9 |
| 405-31-20500 Annual plan project 2020-21- Crop intensification in rice fallows using pulses at krishivigyankendrawayanad | **2020** | GOK | 0.401 |
| 405-31-20513 Annual plan 2020-21- Mapping climate change induced vulnerability and trade offs of agro ecological units of kerala at KVK wayanad | **2020** | GOK | 1.5 |
| 405-31-20897 Annual plan project 2020-21- Crop intencification in rice follows using pulses at krishivigyankendrawayanad | **2020** | GOK | 1.5 |
| Strengthening Production of Quality Planting Materials, T.C. Banana, Coconut, Vegetables and Bio-inputs | **2020-21** | GOK |  |
| 405-40-20638- Establishment of plant health/Diagnostic clinic at KVK wayanad | **2020-21** | GOK | 2.0 |
| 405-31- 20470 Annual plan project 2020-21- Doubling farmers’ income through technological interventions in the homesteads of natural calamity affected areas of Kerala at KVK, Wayanad | **2020-21** | GOK | 2.5 |
| 405-40-20411 Annual plan 2020-21- Establishment of virgin coconut oil processing units at KVK wayanad | **2021** | GOK | 10 |
| 405-40-20788 Annual plant project 2021-22 - Supporting subhiskshakeralamprogramme and block level agricultural centers at various research station and KVKs in KAU under directorate of extension | **2021** | GOK | 0.8 |
| 405-40-350225 Pepper planting material production in participatory mode | **2020** | GOK | 30.891 |
| ICAR-CIFT-FLDs/OFTs and traning cum demonstration through the KVKs under SCSP component | **2021** | CIFT | 7.3 |
| 405-40-70145 ATMA -DAESI at KVKAmbalavayal | **2019** | MANAGE | 6.942 |
| 405-40-70274 TraIning programme jointly with Nestle India Limited | **2021** | Tea Board | 0.761 |

**13C. Details of linkage with ATMA**

**Coordination activities between KVK and ATMA**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Programme** | **Particulars** | **No. of programmes attended by KVK staff** | **No. of programmes Organized by KVK** | **Other remarks (if any)** |
| **01** | **Meetings** | **MTA** | **12** | **-** | **-** |
| **02** | **Research projects** | **0** | **0** | **0** | **0** |
| **03** | **Training programmes** | Value addition, Organic farming,Pest and disease management in pepper cultivation, pest and disease management in banana cultivation support to plant health clinic, vegetable cultivation, pest and disease management of paddy, mushroom cultivation. | **42** | **30** | **-** |
| **04** | **Demonstrations** | **-** | **-** | **-** | **-** |
| **05** | **Extension Programmes** |  |  |  |  |
|  | Kisan Mela | **-** | **-** | **-** | **-** |
|  | Technology Week | Training and exhibition | **10** | **10** | **-** |
|  | Exposure visit | Participation in Multi-disciplinary diagnostic team for field visit, Exposure visit to KVK arranged by ATMA | **21** | **15** | **-** |
|  | Exhibition | Agriculture products exhibition on technology week | **1** | **1** | **-** |
|  | Soil health camps | **0** | **-** | **-** | **-** |
|  | Animal Health Campaigns | Animal Health clinic conducted during technology week | **1** | **1** | **-** |
|  | 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 | **-** | **-** | **-** | **-** |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Programme** | **Nature of linkage** | **Funds received if any Rs.** | **Expenditure during the reporting period in Rs.** | **Constraints if any** |
| **1.** | **National Horticultural mission on spices and aromatic plants** | **Project** | **70,000** | **12,000** | - |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Programme** | **Nature of linkage** | **Funds received if any Rs.** | **Expenditure during the reporting period in Rs.** | **Remarks** |
|  | **0** | **0** | **0** | **0** | **0** |

**13F. Details of linkage with RKVY**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Programme** | **Nature of linkage** | **Funds received if any Rs.** | **Expenditure during the reporting period in Rs.** | **Remarks** |
|  | **0** | **0** | **0** | **0** | **0** |

**13G. Kisan Mobile Advisory Services**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Month** | **No of Advisories** | **Message type (Text/Voice)** | **SMS/voice calls sent (No.)** | | | | | | **Total SMS/Voice calls sent (No.)** | **Farmers benefitted (No.)** |
| **Crop** | **Livestock** | **Weather** | **Marketing** | **Awareness** | **Other enterprises** |
| January | 294 | Text and Voice | **103** | **82** | **0** | **64** | **32** | **13** | **294** | **294** |
| February | 60 | Text and Voice | **36** | **8** | **0** | **2** | **6** | **8** | **60** | **60** |
| March | 148 | Text and Voice | **71** | **23** | **1** | **6** | **24** | **23** | **148** | **148** |
| April | 121 | Text and Voice | **72** | **28** | **0** | **3** | **11** | **7** | **121** | **121** |
| May | 848 | Text and Voice | **256** | **303** | **6** | **16** | **131** | **136** | **848** | **848** |
| June | 482 | Text and Voice | **198** | **108** | **2** | **34** | **96** | **44** | 482 | 482 |
| July | 164 | Text and Voice | **88** | **34** | **0** | **16** | **21** | **5** | 164 | 164 |
| August | 592 | Text and Voice | **219** | **246** | **2** | **39** | **54** | **32** | 592 | 592 |
| September | 864 | Text and Voice | **357** | **294** | **3** | **55** | **121** | **34** | 864 | 864 |
| October | 768 | Text and Voice | **418** | **266** | **0** | **13** | **58** | **13** | **768** | **768** |
| November | 224 | Text and Voice | **116** | **81** | **0** | **0** | **18** | **9** | **224** | **224** |
| December | 739 | Text and Voice | **308** | **346** | **0** | **3** | **42** | **40** | **739** | **739** |
| **Total** | **5304** |  | **2242** | **1819** | **14** | **251** | **614** | **364** | **5304** | **5304** |

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

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Demo Unit | Year of  establishment | Area  (ha) | Details of production | | | Amount (Rs.) | | Remarks |
| Variety | Produce | Qty. | Cost of inputs | Gross income |
| 1 | Soil Lab | 2007 |  |  |  | 956 | 921709.00 | 1,54,290/- |  |
| 2 | Nursery Unit | 2010 |  | .Vegetable  seedlings  .Fruit  Ornamental plants  .Medicinal and Aromatic  .Plantation plants  Spices  .Forest Species  .Azolla | Planting materials | 2,15,260  75kg | 1843418.00 | 46,27,608/- |  |
| 3 | Biocontrol Lab | 2004 |  | Bio Fertilizers  Bio-pesticide  Bio-fungicide  Bio Agents | Acetobacter  Azospirillum  Bio potash  Rhizobium  VAM  Phospho-solubilizing bacteria  Beauveria  Verticillium  Pochonia  Paecilomvces  Metarhizium  Trichoderma  Pseudomona**s**  Pheromone trap | 13,161 kg | 6,27,394.00 | 9,97,589/- |  |
| 4 | Goat | 2005 |  | Malabari cross | Goats | 24 | 9,11,198/- | 1,44,255 |  |
| 5 | Poultry | 2015 |  |  | Chicks,  Hen,  cock | 4023 | 8,19,648/- |  |
| 6 | Mushroom | 2014 |  |  | 1.Spown,  16,437pkts of 300g  2.Mushroom | 16,437  658kg | 460854.00 | 8,08,131/- |  |
| 7 | Food processing unit  Total |  |  |  |  | 887  156  886  71  12  27  **2,039** | 260638.00 | 1,91,695/-  43,886/-  2,197/-  28,719/-  2,640  7,555  **2,76,692**/- |  |
|  | Common facilitation center  **Total** |  |  |  |  | 5,488.48 kg  **7,527.48** | 1,78,919/-  **4,55,611/-** |  |

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name  of the crop | Date of sowing | Date of harvest | Area (ha) | Details of production | | | Amount (Rs.) | | Remarks |
| Variety | Type of Produce | Qty. | Cost of inputs | Gross income |
| Cereals | - | - | - | - | - | - | - | - | - |
|  | - | - | - | - | - | - | - | - | - |
| Pulses | - | - | - | - | - | - | - | - | - |
|  | - | - | - | - | - | - | - | - | - |
| Oilseeds | - | - | - | - | - | - | - | - | - |
|  | - | - | - | - | - | - | - | - | - |
| Fibers | - | - | - | - | - | - | - | - | - |
|  | - | - | - | - | - | - | - | - | - |
| Spices & Plantation crops | | | | | | | | | |
|  | - | - | - | - | - | - | - | - | - |
| Floriculture | - | - | - | - | - | - | - | - | - |
|  | - | - | - | - | - | - | - | - | - |
| Fruits | - | - | - | - | - | - | - | - | - |
|  | - | - | - | - | - | - | - | - | - |
| Vegetables | - | - | - | - | - | - | - | - | - |
|  | - | - | - | - | - | - | - | - | - |
| Others (specify) | | | | | | | | | |
|  | - | - | - | - | - | - | - | - | - |
|  | - | - | - | - | - | - | - | - | - |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No. | Name of the Product | Qty | Amount (Rs.) | | Remarks |
| Cost of inputs | Gross income |
| 1 | Bio Fertilizers | Acetobacter | 604 | 47,108 | - |
|  | - | Azospirillum | 1023 | 85,825 | - |
|  | - | Bio potash | 381 | 12,098 | - |
|  | - | Rhizobium | 218 | 20,282 | - |
|  | - | VAM | 2288 | 68,806 | - |
|  | - | Phospho-solubilizing bacteria | 104 | 8,840 | - |
| 2 | Bio-pesticide | Beauveria | 592 | 50,323 | - |
|  | - | Verticillium | 554 | 44,761 | - |
|  | - | Pochonia | 585 | 49,611 | - |
|  | - | Paecilomvces | 231 | 52,620 | - |
|  | - | Metarhizium | 215 | 18,252 | - |
| 3 | Bio-fungicide | Trichoderma | 3107 | 2,59,268 | - |
|  | - | Pseudomonas | 2937 | 2,30,275 | - |
|  | Bio Agents | Pheromone trap | 322 | 49,520 | - |
|  | Others (specify) | - | - | - | - |
|  | **Total** |  | **13,161** | **9,97,589** |  |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No | Name  of the animal / bird / aquatics | Details of production | | | Amount (Rs.) | | Remarks |
| Breed | Type of Produce | Qty. | Cost of inputs | Gross income |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |

**14E. Utilization of hostel facilities**

Accommodation available (No. of beds)

|  |  |  |  |
| --- | --- | --- | --- |
| **Months** | **No. of trainees stayed** | **Trainee days (days stayed)** | **Reason for short fall (if any)** |
| January | - | - | - |
| February | - | - | - |
| March | - | - | - |
| April | - | - | - |
| May | - | - | - |
| June | - | - | - |
| July | - | - | - |
| August | - | - | - |
| September | - | - | - |
| October | - | - | - |
| November | - | - | - |
| December | - | - | - |

**14F. Database management**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Database target** | **Database created** |
| **-** | **-** | **-** |

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Amount sanction (Rs.)** | **Expenditure (Rs.)** | **Details of infrastructure created / micro irrigation system etc.** | **Activities conducted** | | | | | **Quantity of water harvested in ‘000 litres** | **Area irrigated / utilization pattern** |
| **No. of Training programmes** | **No. of Demonstration s** | **No. of plant materials produced** | **Visit by farmers**  **(No.)** | **Visit by officials**  **(No.)** |
| 2.5 Lakh | 2.5 Lakh | Lining of rain harvesting structure with geo membrane sheet | 2 | 3 | 10,230 | 326 | 24 | 5,00,000 | 0.2 ha |

1. **Micro-irrigation systems**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Amount sanction (Rs.)** | **Expenditure (Rs.)** | **Details of infrastructure created / micro irrigation system etc.** | **Activities conducted** | | | | | **Quantity of water harvested in ‘000 litres** | **Area irrigated / utilization pattern** |
| **No. of Training programmes** | **No. of Demonstration s** | **No. of plant materials produced** | **Visit by farmers**  **(No.)** | **Visit by officials**  **(No.)** |
| 15,000 | 15,000 | Drip irrigation with fertigation system | 3 | 1 | 2500 | 247 | 18 | - | 0.2 ha |

**PART XV – SPECIAL PROGRAMMES**

**15.1 ParamparagathKrishiVikasYojana (PKVY)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl No. | Name of cluster village | Initial soil fertility status (Average of cluster village) | | | | Facilities created for organic source of manure | Name of Crops cultivated | Variety | Organic inputs applied including bio-agents and botanicals treatment | Yield (q/ha) | Economics | |
| Aval. N | Aval. P | Aval. K | OC % | Cost of cultivation (Rs/ha) | Net returns (Rs/ha) |
| 1 | 1. | *-* | *-* | *-* | *-* | *-* | *-* | *-* | *-* | *-* | *-* | *-* |
|  | 2. | *-* | *-* | *-* | *-* | *-* | *-* | *-* | *-* | *-* | *-* | *-* |
| 2 | 1. | *-* | *-* | *-* | *-* | *-* | *-* | *-* | *-* | *-* | *-* | *-* |
|  | 2. | *-* | *-* | *-* | *-* | *-* | *-* | *-* | *-* | *-* | *-* | *-* |

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

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

**15.3 Fertilizer awareness programmeorganised**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **State** | **Name of KVK** | **Details of Activities/programmeOrganised** | **Number of Chief Guests** | **No. of Farmers attended program** | **Total participants** |
| Kerala | KVK Wayanad | The training was conducted as a part of Fertilizer Awareness Programme 2021. Sri. MuhammedShafeeq, Agricultural Officer, KrishiBhavan, Thondernadhandled the session on ''Plant nutrients- micro, macro nutrients and Bio-inputs''.  The VIPs attended the programme was  Shri. O R Kelu, MLA, Mananthavady, Wayanad  Dr. R Chandra Babu, Hon. Vice Chancellor, KAU  Dr.Jiju P Alex, Director of Extension, KAU  Dr. MadhuSubramaniyan, Director of Research, KAU  Dr. Roy Stephen, Associate Director of Research, KAU  Dr. K Ajith Kumar, Associate Director of Research, KAU  Smt. Sajitha P, Kudumbashree Coordinator, Wayand  Sri. P V Balakrishnan, GramaPanchayat President, Tirunelly  Dr. Usha C Thomas, O/ic of AICRP Forage crops and utilization  82 Participants had attended the training | 9 | 62 | 82 |

**15.4 Seed Hub**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Crops*** | ***Variety*** | ***Year of release*** | ***Production*** | | | | ***No of farmers benefited/Sold to no. of farmers*** | ***Quantity seed sold (q)*** |
| ***Target (q)*** | ***Area (ha.)*** | ***Actual Production***  ***(q)*** | ***Category***  ***(FS/CS)*** |
|  |  |  |  |  |  |  |  |  |

**15.5 CFLD on Oilseeds:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sl.No. | Crop | Varieties demonstrated and check | Allocated | | Implemented | |
| Area (ha) | Demos (No.) | Area (ha) | Demos (No.) |
| 1 | Ground nut | Kadiri lepakshi | 5 | 13 | 5 | 13 |
| Total | | | **5** | **13** | **5** | **13** |

**15.6 CFLDs on Pulses:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sl.No. | Crop | Varieties demonstrated and check | Allocated | | Implemented | |
| Area (ha) | Demos (No.) | Area (ha) | Demos (No.) |
| 1 | Green gram | CO8 | 10 | 50 | 10 | 50 |
| 2 | Black gram | VBN8 | 5 | 25 | 5 | 25 |
| Total | | | **15** | **75** | **15** | **75** |

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

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Type of Activity** | **Date(s) conducted** | **No. of farmers (General)** | | | **No. of farmers**  **SC / ST** | | | **No.of extension personnel** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| - | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

**15.8 Micro-Irrigation**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Type of Activity** | **Date(s) conducted** | **No. of farmers (General)** | | | **No. of farmers**  **SC / ST** | | | **No. of extension personnel** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| Training Programme | **24.03.2021** | **35** | **1** | **36** | **-** | **-** | **-** | **2** | **3** | **5** |
| Training Programme | **03.07.2021** | **40** | **2** | **42** | **5** | **1** | **6** | **45** | **3** | **48** |

**15.9 Tribal Sub-Plan (TSP)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Farmer Training | | Women Farmer Training | | Rural Youths | | Extension Personnel | | OFT (No of Technologiess) | Number of farmers involved | | | Participants in extension activities (No.) | Production of seed (q) | Production of Planting material (Number in lakh) | Production of Livestock strains (Number in lakh) | Production of fingerlings (Number in lakh) | Testing of Soil, water, plant, manures samples (Number) |
| No. of Trainings/Demos | No. of Farmers | No. of Trainings/Demos | No. of Women Farmers | No. of Trainings/Demos | No. of Youths | No. of Trainings/Demos | No. of Ext. Person | On- farm trials | Frontline demos | Mobile agro- advisory to farmers |
| - | - | - | - | 1 | 46 | - | - | 0 | - | - | - | - | - | - | 400 layer hens and 17 goats | - | - |

**15.10 SCSP**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Farmer Training | | Women Farmer Training | | | Rural Youths | | Extension Personnel | | OFT (No of Technologiess) | Number of farmers involved | | | Participants in extension activities (No.) | Production of seed (q) | Production of Planting material (Number in lakh) | Production of Livestock strains (Number in lakh) | Production of fingerlings (Number in lakh) | Testing of Soil, water, plant, manures samples (Number) |
| No. of Trainings/Demos | No. of Farmers | | No. of Trainings/Demos | No. of Women Farmers | No. of Trainings/Demos | No. of Youths | No. of Trainings/Demos | No. of Ext. Person | On- farm trials | Frontline demos | Mobile agro- advisory to farmers |
| 3 | 45 | | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 |

**15.11 NARI**

|  |  |  |
| --- | --- | --- |
| **Activity** | **Achievement** | |
| **Number of activity** | **No. of farmers/ beneficiaries** |
| OFTs – Nutritional Garden (activity in no. of Unit) | - | - |
| OFTs – Bio-fortified Crops (activity in no. of Unit) | - | - |
| OFTs – Value addition(activity in no. of Unit/Enterprise) | - | - |
| OFTs - Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise) | - | - |
| FLDs – Nutritional Garden (activity in no. of Unit) | 25 | **25** |
| FLDs – Bio-fortified Crops (activity in no. of Unit) | **-** | **-** |
| FLDs – Value addition(activity in no. of Unit/Enterprise) | **12** | **283** |
| FLD- Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise) | **-** | **-** |
| Trainings | **4** | **147** |
| Extension Activities | **-** | **-** |

**15.12 KVK Portal**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No. of Events added by KVKs** | **No. of Facilities added by KVKs** | **Filled Report on Package of Practices (Y/N)** | | | | **Filled Profile Report (Y/N)** | | | | | | | |
| **Crop** | **Livestock** | **Fisheries** | **Horticulture** | **Employees** | **Posts** | **Finance** | **Soil Health Cards** | **Appliances** | **Crops** | **Resources** | **Fish** |
| **228** | **22** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** |

**15.13 KSHAMTA**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Number of Adopted Villages** | **No. of Activities** | | **No. of farmers benefited** | |
| **Demo** | **Training** | **Demo** | **Training** |
| **-** | **-** | **-** | **-** | **-** |

**15.14 DFI**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl | District | Taluks | Villages | Farmers (No.) | Average Benchmark Income (Rs/year) | Crops/ enterprises | KVK Interventions | Additional Net Income generated due to KVK interventions (Rs/year) | Total income of farmer (Rs/year) |
|  |  |  |  |  |  |  |  |  |  |

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

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

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Crop varieties/hybrids assessed/ demonstrated** | **Farmer’s feedback** |
| **1** | Assessment of high yielding rice varieties for Nancha season in Wayanad | Farmers preferred rice variety Supriya as it was comparatively tolerant to pest and disease and gave higher yield |
| **2** | Assessment of different intercrops in young coffee plantation Remarks: ATARI experts asked to include more intercrops instead of yams alone as inter crops in coffee gardens | Widely accepted by the farmers |
| **3** | Assessment of onion varieties in Wayanad | Farmer gets an assured income and less pest and disease incidence |
| **4** | Demonstration of agricultural technologies for urban homesteads in Wayanad | Beneficiaries got awareness about the technology |
| **5** | Demonstration of drone technology in rice | Reduced labour cost, uniform spraying and reduced labour requirement |
| **6** | Demonstration of ridges and furrow method of planting in carrot cultivation | Got good carrot yield and farmers were satisfied with the technology |
| **7** | Popularization of broccoli (PusaBrocolli KS-1) in Wayanaddistric | Broccoli got a good acceptance among the consumers. |
| **8** | Demonstration of inter cropping of cluster bean (Suruchi) with banana | An additional income for the banana farmers during the early stages. Crab attack was severe as the banana cultivation was mainly in wetland |
| **9** | Demonstration of water melon Swarna and Shonima (seedless watermelon | Got good yield with good taste and sweetness Got a good acceptance among the consumers. |
| **10** | Demonstration of finger millet variety ATL-1 in summer rice fallows | On going |
| **11** | Demonstration of drought resistant fodder crops in homestead | On going |
| **12** | Demonstration of coleus skin peeler | Widely accepted by the farmers. Easy to handle and more amount can be cleaned with in short period of time. More recovery. Do not stains hands |

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

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Agronomic practices** | **Farmer’s feedback** |
| **1** | Demonstration of different pre mix herbicide (Vivaya)formulations for broad spectrum weed control in rice | The farmers were satisfied with the technology as the weed incidence were lesser in demo plot and it resulted in higher yield |

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

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Pest and disease management in crops** | **Farmer’s feedback** |
| **1** | Integrated management of bud rot in coconut | Disease incidence reduced and farmers were satisfied with the technology |
| **2** | Integrated Pest Management in Banana for the management of pseudo stem weevil | Farmers obtained better yield on accepting this technology |

**16.4 Farmers feedback onperformance of farm machinery technologies**

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Farm machinery technologies** | **Farmer’s feedback** |
| **1** | Demonstration of drone technology in rice | Reduced labour cost, uniform spraying and reduced labour requirement |
| **2** | Demonstration of coleus skin peeler | Widely accepted by the farmers. Easy to handle and more amount can be cleaned with in short period of time. More recovery. Do not stains hands |

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

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Livestock/fisheries technologies** | **Farmer’s feedback** |
| **1** | Demonstration of fodder oats and fodder cowpea for improving the nutrient composition of the ration | Ongoing |
| **2** | Demonstration of integrated farming system for enhancing income | Ongoing, Farmers are happy with the egg production of BV 380 layer hens which are in its initial stages of production |
| **3** | Demonstration of integrated control methods to prevent wild animal attacks on crops | Ongoing; Incidence of wild boar attack for 2 weeks on use of borep, Bioacoustic device has not prevented monkey attack |

**PART XVII - FINANCIAL PERFORMANCE**

**17A. Details of KVK Bank accounts**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Bank account** | **Name of the bank** | **Location** | **Branch code** | **Account Name** | **Account Number** | **MICR Number** | **IFSC Number** |
| With Host Institute |  |  |  |  |  |  |  |
| With KVK | SBI Kolagappara | Ambalavayal | 70615 | SB | 57049085114 | Nil | SBIN0070615 |
| With KVK | SBI Kolagappara | Kolagappara | 70615 | Programme Coordinator | 37564341446 | Nil | SBIN0070615 |
| With KVK | SBI Kolagappara | Ambalavayal | 70615 | The Revolving | 39203241960 | Nil | SBIN0070615 |
| **With KVK** | SBI Kolagappara | **Ambalavayal** | **70615** | **Associate Professor** | **57049083977** | **Nil** | **SBIN0070615** |

**17B. Utilization of KVK funds during the year 2020-21(Rs. in lakh)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.**  **No.** | **Particulars** | **Sanctioned** | **Released** | **Expenditure** |
| **A. Recurring Contingencies** | | | | |
| 1 | **Pay & Allowances** | 22506681 | 22506681 | 18419839 |
| 2 | **Traveling allowances** | 1,81,511 | 1,81,511 | 38498 |
| 3 | **Contingencies** | | | |
| *A* | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 2251000 | 2251000 | 61021 |
| *B* | POL, repair of vehicles, tractor and equipments | 200000 | - | 196836 |
| *C* | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained) | 0 | - | 1551 |
| *D* | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | 60000 | 60000 | 49668 |
| *E* | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | 185000 | 185000 | 53353 |
| *F* | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | 80000 | 80000 | 39130 |
| *G* | Training of extension functionaries | 43059 |  | 25000 |
| *H* | Maintenance of buildings | 50000 | 50000 | 50000 |
| *I* | Establishment of Soil, Plant & Water Testing Laboratory |  |  |  |
| *J* | Library | 5000 |  | 5000 |
| **TOTAL (A)** | |  |  |  |
| **B. Non-Recurring Contingencies** | | 25562251 | 25314192 | 18939896 |
| 1 | **Works** | - | - | - |
| 2 | **Equipment including SWTL & Furniture** | - | - | - |
| 3 | **Vehicle** (Four wheeler/Two wheeler, please specify) | - | - | - |
| 4 | **Library** (Purchase of assets like books & journals) | - | - | - |
| **TOTAL (B)** | | - | - | - |
| **C. REVOLVING FUND** | | 6318239.5 | - | 6925671.85 |
| **GRAND TOTAL (A+B+C)** | |  |  |  |

**17C. Status of revolving fund (Rs. in lakh) for the last three years**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Year** | **Opening balance as on 1st January** | **Income during the year** | **Expenditure during the year** | **Net balance in hand as on 31st December of each year** |
| April 2018 to March 2019 (RF HADA) | 0 | 628112 | 729971 | 101859 |
| April 2018 to March 2019 (RF Nursery) | 12967846.25 | 29174606 | 22147982 | 7026624 |
| January 2020-December 2020  (RFSTL) | 7026624 | 7946519 | 6611968.5 | 1334550.5 |
| January 2020-December 2020  (HADA) | 101859 | 731046 | 457531.25 | 273514.75 |
| January 2020-December 2020  (Mass Production of Bio Inputs) | 100000  (As 0n 01.04.2020) | 1456268 | 841988.75 | 614279.25 |
| January to December 2021(RFSTL) | 20384498.49 | 3156604 | 4608546.75 | 18932555.74 |
| January to December 2021(HADA) | 680953.5 | 203686 | 260638 | 624001.5 |
| January to December 2021  (Mass Production of Bio Inputs) | 1798872.65 | 658620 | 627394 | 1828298.65 |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of the staff** | **Designation** | Title of the training programme | Institute where attended | Dates |
| Dr.Safia N E, | Programme Coordinator  (Assistant Professor  Home Science,) KVK Wayanad | Orientation cum training course on use of statistical tools in agriculture and allied fields | Journal of Krishivigyan | 16/9/2021 to 19/9/2021 |
| Dr.Safia N E, | Programme Coordinator  Assistant Professor  Home Science,) KVK Wayanad | Training for Home Scientists | Journal of Krishivigyan | 31/7/2021 to 1/8/2021 |
| Dr. DeepaSurendran | Assistant Professor  Animal Husbandry, KVK Wayanad | Improved Cattle husbandry practices for better economic returns | Central Institute for Research on Cattle, Meerut UP | 17/2/2021 to 3/3/21 |
| Smt.AshithaM.R | Assistant Professor  Horticulture  KVK Wayanad | ICAR-IIHR Technologies for dissemination through KVKs. |  | 17/18/2021 |
| Dr.Deepa Rani C .V | Assistant Professor  Plant Pathology  KVK Wayanad | ICAR-IIHR Technologies for dissemination through KVKs. | IIHR | 17/18/2021 |
| Smt.AshithaM.R | Assistant Professor  Horticulture  KVK Wayanad | Workshop on “Nuances in Floriculture Industry | Annamali University | 6/9/2021 |
| Smt.AshithaM.R | Assistant Professor  Horticulture  KVK Wayanad | Production of Arka Fermented Cocopeat and soilless Cultivation of Vegetables” | IIHR | 8/10/20201 |

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

1. **Conducted online farmer scientist interface in the following topics**

**Online Farmers - Scientists Face to face interaction on crop management on 19-05-2021**

An agro clinic and advisory conclave of crop management experts through virtual platform to help farmers to solve agricultural related issues on crop management.The programme is being organized through zoom app and its schedule containing date, time and experts list was circulated through All India Radio, Print and social media platforms. A minimum of 60 farmers attended throughout the programme and the overall participants was more than 100.

**Online Scientists-Farmers interface programme on Animal husbandry sector- on 30-06-2021**

Around 90 farmers actively participated in the discussion and their doubts were cleared by experts from Kerala Veterinary and Animal Sciences University and Dept. of Animal Husbandry such as Dr PR Pradeep Kumar Retired Joint Director (AH), Dr John Abraham, Associate Professor, Dept. of Livestock Production Management, College of Veterinary and Animal Sciences, Pookot, Dr. Shibu Simon, Assistant Professor, Dept. of Animal Reproduction, Gynaecology and Obstetrics, College of Veterinary and Animal Sciences, Mannuthy and Dr Sajith Purushothaman, Assistant Professor, Dept. of Animal Nutrition, College of Veterinary and Animal Sciences, Mannuthy. Dr Allan Thomas, Programme Co-ordinator, KVK welcomed the participants. Dr Jiju P. Alex, Director of Extension, KAU inaugurated the programme. Dr Vinodkumar P., Joint Director (AH), District Animal Husbandry Officer, Wayanad and Smt. Jessymol A.S., Deputy Director (Agriculture), Principal Agriculture Officer (I/c) offered their felicitation.

**Online Farmer - Scientist Face to face interaction on 'Food processing and value added products' on 29-07-2021**

Around 51 farmers actively participated in the discussion and their doubts were cleared by experts from different departments from Kerala. Dr. Safia N E welcomed the participants and experts to the programme. Dr. Allan Thomas (Programme Coordinator, KVK, Wayanad) addressed the programme. Dr. Mini C, (Professor and Head (PHT), KAU-COA Vellayani), Dr. Jayashree E (Principal Scientist, ICAR-IISR, Calicut, Kerala), Mrs. Archana Chandran (Assistant Professor, College of Dairy Science and Technology, KVASU, Pookode,Kerala) and Dr. Sandeep P M, (Research Assistant, Coffee Quality Division, Coffee Board of India) interacted with farmers. Vote of thanks to the programme was given by Smt. Ashitha M R,(Assistant Professor, KVK,Wayanad).

**Online Farmer - Scientist Face to face interaction on '' Constraints and Remedies in Scientific Pepper Cultivation" on 30-08-2021**

The introduction for the programme was given by Dr. Indulekha V P (Assistant Professor, KVK, Wayanad). Dr. Allan Thomas (Programme Coordinator, KVK, Wayanad) gave the welcome address. The Programme was inagurated by Dr. JayasreeKrishnankutty, (Director of Extension, KAU). Special address to the programme was given by Smt. Jessymol A S( Deputy Director, Dept. of Agriculture, Wayanad). The interactive session was handled by Dr. Neema V P (Professor and Head, Pepper Research Station, Panniyur), Dr. Yamini Varma, (Professor, Plant Pathology, Pepper Research Station, Panniyur), Dr. P Jayaraj, (Programme Coordinator and Head, KVK Kannur), Ms. Airina C K, ( Assistant Professor, Horticulture, PRS, Panniyur) and Ms. Divya K K ( Assistant Professor, Ag. Entomology, PRS, Panniyur). The Vote of thanks to the programme was given by Smt. Ashitha M R (Assistant Professor, KVK, Wayanad).

**Farmer's-Scientists Interface On Avocado Cultivation on 08-11-2021**

KVK Wayanad conduct Farmer's-Scientists interface on Avocado cultivation. Inauguration of the programme was done by Smt. Jessy George (Ambalavayalgramapanchayath Standing Committee Chairperson). Presidential address was given by Dr. Allan Thomas (Programme Coordinator, KVK Wayanad). Dr. P Rajendran (Retd. ADR, RARS, Ambalavayal) handled a session on the scope and importance of avocado cultivation. A session on Scientific cultivation practices was handled by Sri. Sampreeth K T (Avocado farmer, SreePadmam plant nursery, meenangadi). Special address to the programme was given by Sri. Anil Kumar V V (ADA, Cheengeri Extension scheme). 45 farmers participated in the programme.

1. **Dehydrated product from Cassava**

The timely intervention of the Kerala Agricultural University (KAU) by offering to bring out value added products from cassava has offered a ray of hope to farmers reeling under crisis during the covid-19 pandemic. After traders abruptly stopped procuring cassava owing to huge availability and low demand for the produce in the market, Krishi Vigyan Kendra, Ambalavayal, under the varsity made the intervention along with the kerala state horticultural products development corporation (Horticorp) by using a demonstration dryer unit at the Kendra.

1. **Combined field visit and attended PMIC meeting**