**ANNUAL REPORT 2011-12**

**FOR THE PERIOD**

**APRIL 2011 TO MARCH 2012**

**KRISHI VIGYAN KENDRA**

**BELGAUM**

PART I – GENERAL INFORMATION ABOUT THE KVK

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| KVK Address | Telephone | | E mail | **Web Address** |
| Office | Fax |
| Krishi Vigyan Kendra  BIRDS Campus, Tukkanatti-591224,  Gokak-Tq, Belgaum-Dist | (08332) 284978 | (08332) 284978 | pcbelgaum@gmail.com,  kvkbirds@gmail.com | www.kvk-birds.org |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Address | Telephone | | E mail | **Web Address** |
| Office | Fax |
| Shri. R. M. Patil,  Executive Director  Belgaum Integrated Rural Development Society  Naganur, Gokak-Tq, Belgaum-Dist | (08334) 288622 | (08334) 288612 | rmpatil0@gmail.com | www.birds-naganur.org |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Telephone / Contact | | |
| Residence | Mobile | Email |
| Dr. S. Shashikumar | 08332-224070 | 09343835898 | kvkbirds@gmail.com |

1.4. Year of sanction : September1994

Year of start of activities : March 1995

**1.5. Staff Position (as 31st March 2012)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Sanctioned post** | **Name of the incumbent** | **Designation** | **M/F** | **Discipline** | **Highest Qualification**  **(for PC, SMS and Prog. Asst.)** | **Pay**  **Scale** | **Pay**  **Band** | **Grade Pay** | **Date of joining KVK** | **Permanent**  **/Temporary** | **Category (SC/ST/**  **OBC/**  **Others)** |
| 1 | Programme  Coordinator | Dr. Shashikumar. S | Programme Coordinator | M | Extension | M.Sc.(Agri. Extn.), Ph.D. | 37400-67000 | 43250 | 9000 | 06.04.2004 | Permanent | Others |
| 2 | SMS | D C Chougala | SMS | M | Plant Protection | M.Sc. (Agri. Plant Protection) | 15600-39100 | 24020 | 6600 | 01.03.1998 | Permanent | Others |
| 3 | SMS | M N Malawadi | SMS | M | Agronomy | M.Sc. (Agronomy) | 15600-39100 | 19680 | 5400 | 06.04.2004 | Permanent | SC |
| 4 | SMS | Dr. Shweta Biradar | SMS | F | Home Science | M. H. Sc. (Home Science) | 15600-39100 | 16880 | 5400 | 14.09.2009 | Permanent | OBC |
| 5 | SMS | Adarsh ,H S | SMS | M | Fisheries | M.Sc. (Fisheries) | 15600-39100 | 15600 | 5400 | 14.11.2011 | Permanent | OBC |
| 6 | Against SMS | S S Sharma | Against SMS | M | Horticulture | M.Sc. (Horticulture) | 9300-34800 | 15010 | 4200 | 28.08.2000 | Permanent | Others |
| 7 | SMS | Vacant | SMS | Nil | Animal Science | Nil | Nil | Nil | Nil | Nil | Permanent | Nil |
| 8 | Programme Assistant  (Lab Tech) /T-4 | N R Salimath | Programme Assistant (Lab. Tech.)/T-4 | M | Lab. Tech/ Sericulture | M. Sc. (Sericulture) | 9300-34800 | 18060 | 4600 | 23.03.1995 | Permanent | Others |
| 9 | Programme Assistant (Computer)/ T-4 | U. Y. Patil | Programme Assistant (Computer) / T-4 | M | Computer Programmer | M.C.A | 9300-34800 | 11580 | 4200 | 01.04.2008 | Permanent | Others |
| 10 | Programme Assistant/ Farm Manager | G S Patted | Programme Assistant/ Farm Manager | M | Farm Manager | B.Sc. (Agri) | 9300-34800 | 17600 | 4600 | 29.11.1996 | Permanent | Others |
| 11 | Assistant | Mahantesh M | Assistant | M | Assistant | B.com  (M.Com) | 9300-34800 | 11580 | 4200 | 01.05.2008 | Permanent | OBC |
| 12 | Jr. Stenographer | Basavaraj P Ambiger | Store Keeper | M | Store Keeper | B.A | 5200-20200 | 9170 | 2000 | 20.03.1995 | Permanent | OBC |
| 13 | Driver | L. S. Pujari | Driver | M | Driver | SSLC | 5200-20200 | 9170 | 2000 | 20.03.1995 | Permanent | OBC |
| 14 | Driver | K. K. Shidbagol | Driver | M | Driver | SSLC | 5200-20200 | 9170 | 2000 | 16.11.1996 | Permanent | OBC |
| 15 | Supporting staff | G. S. Shingadi | Peon | M | Peon | SSLC | 5200-20200 | 7920 | 1900 | 20.03.1995 | Permanent | OBC |
| 16 | Supporting staff | A. M. Koli | Watchman | M | Watchman | SSLC | 5200-20200 | 7920 | 1900 | 20.06.1995 | Permanent | OBC |

**1.6. Total land with KVK (in ha) : 22.0 ha**

|  |  |  |
| --- | --- | --- |
| **S. No.** | **Item** | **Area (ha)** |
| 1 | Under Buildings | 0.15 |
| 2. | Under Demonstration Units | 0.07 |
| 3. | Under Crops | 3.00 |
| 4. | Orchard | 6.50 |
| 5 | Agro-forestry | 7.51 |
| 6 | Fodder development | 4.33 |
| 7. | Others | 0.44 |
|  | **Total** | **22.00** |

**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 | 1997 | 686 | 24,43,000 | nil | nil | nil |
| 2. | Farmers Hostel | ICAR | 2006 | 305 | 20,93,000 | nil | nil | nil |
| 3. | Staff Quarters |  |  |  |  |  |  |  |
|  | 1 Programme Coordinator | ICAR | 2001 | 90.2 | 5,95,000 | nil | nil | nil |
|  | 2 SMS – 2 Nos | ICAR | 1999 | 138.8 | 7,89,000 | nil | nil | nil |
|  | 3 PA -2 Nos | ICAR | 2002 | 99.6 | 7,68,000 | nil | nil | nil |
|  | 4 Supporting staff –  2 Nos | ICAR | 2000 | 70.04 | 5,82,000 | nil | nil | nil |
| 4. | Demonstration Units |  |  |  |  | nil | nil | nil |
|  | 1 Poly House |  | 2006 | 75.0 | 1,00,000 | nil | nil | nil |
|  | 2 Cattle shed |  | 2006 | 90.0 | 87,000 | nil | nil | nil |
|  | 3 Fish culture tank | DST, New Delhi | 2006 | 23.60 | 1,20,000 | nil | nil | nil |
|  | 4 Ornamental Fish | NFDB, Hyderabad | 2008 | 4.0 | 10,000 | nil | nil | nil |
|  | 5 Guppy breeding | Host org. | 2006 | 4.0 | 15,000 | nil | nil | nil |
|  | 6 Vermi compost | Host org. | 2001 | 19.00 | 3.000 | nil | nil | nil |
| 5 | Fencing | ICAR | 1996 |  | 1,10,000 | nil | nil | nil |
| 6 | Rain Water harvesting system |  |  |  |  | nil | nil | nil |
| 7 | Threshing floor | ICAR | 2003 | 144.0 | 50,000 | nil | nil | nil |

B) Vehicles

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Type of vehicle** | **Year of purchase** | **Cost (Rs.)** | **Total kms. Run** | **Present status** |
| Mahindra XYLO Jeep (Mahindra) | March 2010 | 7,46,000 | 50,297 | Good Condition |
| Motor cycle (Suzuki) | December 1995 | 35,652 | 2,24,164 | Running Condition |
| Motor cycle (Yamaha) | February 1996 | 38,967 | 2,32,749 | Running Condition |

**C) Equipments& AV aids**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Name of Equipments** | **Date of purchase** | **Cost (Rs. In lakhs)** | **Present status** |
| 1 | Tractor | 09.03.1995 | 205706/- | OK |
| 2 | Public Addressing system | 15.03.1995 | 8603/- | OK |
| (Amplifier -1, Micro phone -2 |
| Unit – 2,Column speakers box – 2 |
| Horn – 2, Mic. Stand-1,Table stand – 1) |
| 3 | Type Writer – Godrej – English | 15.03.1995 | 10265/- | OK |
| 4 | Over head projector | 16.03.1995 | 15015/- | OK |
| 5 | Table Chief Executive | 17.03.1995 | 6880/- | OK |
| 6 | Table Junior Executive | 17.03.1995 | 4965/- | OK |
| 7 | Table Writing | 17.03.1995 | 16085/- | OK |
| 8 | Chairs with arms | 17.03.1995 | 5946/- | OK |
| 9 | Chairs with arms and Cussions | 17.03.1995 | 2000/- | OK |
| 10 | Chairs without arms | 17.03.1995 | 4578/- | OK |
| 11 | Cabinet for files | 17.03.1995 | 5334/- | OK |
| 12 | Cabinet Steel Almera | 17.03.1995 | 5494/- | OK |
| 13 | Agro spray pump | 07.08.1995 | 850/- | OK |
| 14 | Auto stove with gas accessories | 11.08.1995 | 840/- | OK |
| 15 | Motor Cycle | 05.12.1995 | 35652/- | OK |
| 16 | Tractor Trolley | 30.12.1995 | 71364/- | OK |
| 17 | Disc plough | 30.12.1995 | 22150/- | OK |
| 18 | Type Writer – Kannada | 03.02.1996 | 11400/- | OK |
| 19 | Motor Cycle | 24.02.1996 | 39000/- | OK |
| 20 | Cycle | 11.03.1996 | 1550/- | OK |
| 21 | Camera (K-1000 Pentium with vivital Flash) | 13.03.1996 | 10800/- | OK |
| 22 | Vertical High Pressure Stream Sterilizer | 21.03.1996 | 22360/- | OK |
| 23 | Steel Almera | 06.03.1996 | 16332/- | OK |
| 24 | Chairs with arms steel | 06.03.1996 | 15840/- | OK |
| 25 | Chair typist revolving | 06.03.1996 | 1109/- | OK |
| 26 | Table Steel | 06.03.1996 | 8138/- | OK |
| 27 | Table Supdt. | 06.03.1996 | 3388/- | OK |
| 28 | Table typist | 06.03.1996 | 1897/- | OK |
| 29 | Table writing steel | 06.03.1996 | 8472/- | OK |
| 30 | Cabinet files steel | 06.03.1996 | 5313/- | OK |
| 31 | Slotted angel rack steel | 06.03.1996 | 2638/- | OK |
| 32 | Slotted angel rack steel | 06.03.1996 | 2250/- | OK |
| 33 | Stool Steel | 06.03.1996 | 544/- | OK |
| 34 | Color TV | 27.03.1996 | 20195/- | OK |
| 35 | Godrej Refrigerator 165 ltr | 28.03.1996 | 9000/- | OK |
| 36 | 5 HP Mono block Pumpset | 29.03.1996 | 8000/- | OK |
| 37 | Slide projector | 18.03.1996 | 15000/- | OK |
| 38 | Boards 3 panel /4 stand pinning type display | 30.03.1996 | 11233/- | OK |
| 39 | Sewing machine | 13.03.1997 | 6000/- | OK |
| 40 | Floor Fan | 31.03.1997 | 1700/- | OK |
| 41 | Oven | 31.03.1998 | 2600/- | OK |
| 42 | Poly set Plastic Chairs | 31.03.1998 | 42000/- | OK |
| 43 | Chair Wooden with Cushion | 30.03.1999 | 7000/- | OK |
| 44 | Ceiling fan | 31.03.1999 | 9400/- | OK |
| 45 | Ceiling fan | 31.03.1999 | 10200/- | OK |
| 46 | Stage Set for Seminar Hall | 31.03.1999 | 23394/- | OK |
| 47 | Steel Almera | 29.02.2000 | 7500/- | OK |
| 48 | Steel Almera big size | 30.03.2001 | 4700/- | OK |
| 49 | Steel slotted angle rock | 27.03.2002 | 4391/- | OK |
| 50 | DVD player | 25.08.2003 | 9895/- | OK |
| 51 | Steel Almera large | 28.02.2003 | 8000/- | OK |
| 52 | Rack with components steel | 28.02.2003 | 1800/- | OK |
| 53 | Steel Almera | 29.03.2004 | 14400/- | OK |
| 54 | Digital Copier | 28.05.2004 | 75000/- | OK |
| 55 | Computer with Printer HP, Scanner | 18.06.2004 | 75000/- | OK |
| 56 | Furniture : | 28.08.2004 | 50000/- | OK |
| 57 | Pumpset with irrigation system | 03.02.2005 | 100000/- | OK |
| 58 | News paper stand double & single | 01.03.2005 | 8000/- | OK |
| 59 | Flip chart clip | 01.03.2005 | 425/- | OK |
| 60 | Ease(tripod) stand | 01.03.2005 | 1480/- | OK |
| 61 | Revolving stool | 01.03.2005 | 1600/- | OK |
| 62 | Spiral binder | 01.03.2005 | 6500/- | OK |
| 63 | Combination board | 01.03.2005 | 6400/- | OK |
| 64 | Camera | 16.11.2005 | 19850/- | OK |
| 65 | Furniture for Hostel | 10.11.2005 | 100000/- | OK |
| **Soil Testing Laboratory Equipments (Rs.8,60,000/-)** | | | | |
| 66 | Spectrophotometer(67588+48942) | 05.01.06, 31.01.06 | 116530/- | OK |
| 67 | Physical balance(Electronic weighing machine) (61252+13976) | 13.12.05 | 75228/- | OK |
| 68 | Water distillation still | 27.01.2006 | 66431/- | OK |
| 69 | Keldahl digestion & distillation | 10.01.2006 | 213062/- | OK |
| 70 | Shaker, Oven, Hot plate, Grinder | 27.01.2006 | 79200/- | OK |
| 71 | Refrigerator | 11.01.2006 | 16875/- | OK |
| 72 | Lab setup table | 2005-2006 | 292674/- | OK |
| 73 | Computer | 21.02.2007 | 20644/- | OK |
| 74 | LPG Cylinder | 22.04.2006 | 3400/- | OK |
| 75 | Coin Box phone | 02.05.2006 | 5000/- | OK |
| 76 | LCD Projector | 01.09.2006 | 72500/- | OK |
| 77 | Computer Accessories | 01.09.2006 | 9500/- | OK |
| 78 | Portable Hard Disk | 01.09.2006 | 18000/- | OK |
| 79 | Cotton Tarpaulin – FLD | 21.02.2007 | 4320/- | OK |
| 80 | Rotavator – FLD | 31.03.2007 | 55000/- | OK |
| 81 | Mist blower, power sprayer | 01.12.2006 | 45000/- | OK |
| 82 | Air Conditioner | 31.03.2007 | 70470/- | OK |
| 83 | Color Television | 31.03.2007 | 6990/- | OK |
| 84 | Laptop | 14.12.2006 | 53232/- | OK |
| 85 | Computer accessories | 15.07.2007 | 19968/- | OK |
| 86 | UPS | 04.10.2007 | 15000/- | OK |
| 87 | Teapoy | 25.06/2007 | 2700/- | OK |
| 88 | Steel Rack 16 \* 46 | 25.06.2007 | 2165/- | OK |
| 89 | Nokia 6275 Handset with accessories | 27.12.2007 | 9750/- | OK |
| 90 | DI power Tiller 15 Hp- FLD | 16.06.2007 | 97000/- | OK |
| 91 | Computer Battery | 19.02.2008 | 6500/- | OK |
| 92 | Steel cot with Mosquito net stands | 29.09.2007 | 42000/- | OK |
| 93 | Movable Teapoy | 29.09.2007 | 1080/- | OK |
| 94 | Fax Machine | 25.02.2009 | 17679/- | OK |
| 95 | Lab Items | 14.10.2006 | 8046/- | OK |
| 96 | Microscope with Tube | 14.10.2006 | 5625/- | OK |
| 97 | Lab items | 14.10.2006 | 4801/- | OK |
| 98 | Lab items | 18.10.2006 | 33254/- | OK |
| 99 | Lab items | 18.10.2006 | 4278/- | OK |
| 100 | Lab items | 2006-07 | 9100/- | OK |
| 101 | Lab items | 2006-07 | 2429/- | OK |
| 102 | Refrigerator | 31.03.2007 | 12490/- | OK |
| 103 | Presto Squash | 31.03.2007 | 21280/- | OK |
| 104 | Lab items | 31.03.2007 | 40615/- | OK |
| 105 | Mixer grinder, Food Processor | 01.04.2007 | 8645/- | OK |
| 106 | Digital Camera | 18.06.2007 | 12600/- | OK |
| 107 | Exide Battery | 04.04.2007 | 7200/- | OK |
| 108 | Motor Cycle | 31.08.2007 | 50306/- | OK |
| 109 | Computer accessories | 25.08.2007 | 6750/- | OK |
| 110 | Almera | 29.09.2007 | 10800/- | OK |
| 111 | Office Table 1203 | 29.09.2007 | 3400/- | OK |
| 112 | Office Table 1203 | 29.09.2007 | 3600/- | OK |
| 113 | AIS CH | 29.09.2007 | 3300/- | OK |
| 114 | UPS Battery, chair, table | 31.03.2008 | 11100/- | OK |
| 115 | Printer | 31.03.2008 | 11900/- | OK |
| 116 | Desktop, DVD, Hard disk 250 GB, Antivirus | Sep-09 | Nil | OK |
| 117 | LaserJet Printer | Sep-09 | nil | OK |
| 118 | Scanner Scan jet | Sep-09 | nil | OK |
| 119 | UPS | Feb-09 | nil | OK |
| 120 | GPS System | Feb-09 | nil | OK |
| 121 | Chairs, table, Executive chairs, Computer table, Computer Chair | Oct-09 | 34762/- | OK |
| **Village Resource (VRCs)** | | | | |
| 122 | Kiosks : display size :43.2 CM LCD, Pentium 4 Processor, | 31.08.2008 | 124569/- | OK |
| 123 | Computer Chair with Revolving cushioned seat with arm | Sep-09 | 1646/- | OK |
| 124 | Computer Tables (4\*2) | Sep-09 | 2558/- | OK |
| 125 | Sony DVCAM Portable Camera | 26.10.2009 | 184000/- | OK |
| **Information Communication Technology (ICT)** | | | | |
| 126 | Desk Top Computers | 2009-10 | ICAR | OK |
| 127 | Server Computer | 2009-10 | ICAR | OK |
| 128 | Dot Matrix Printer | 2009-10 | ICAR | OK |
| 129 | Laser Printer | 2009-10 | ICAR | OK |
| 130 | Scanner | 2009-10 | ICAR | OK |
| 131 | MS Window Server | 2009-10 | ICAR | OK |
| 132 | MS Office 2007 | 2009-10 | ICAR | OK |
| 133 | Anti Virus | 2009-10 | ICAR | OK |
| 134 | Lan Switch (7- Computer room, 3-Server) | 2009-10 | ICAR | OK |
| 135 | UPS (5-Computer room, 1-Server) | 2009-10 | ICAR | OK |
| 136 | V SAT Antenna | 2009-10 | ICAR | OK |
| 137 | Computer Tables | 2009-10 | ICAR | OK |
| 138 | Printer Tables | 2009-10 | ICAR | OK |
| 139 | Chairs | 2009-10 | ICAR | OK |
| 140 | Air Condition | 2009-10 | ICAR | OK |
| 141 | Aluminium Partitioning up to Roof height | 2009-10 | ICAR | OK |
| 142 | Vinyl Flooring – Thickness 1.5mm | 2009-10 | ICAR | OK |
| 143 | LAN Connection | 2009-10 | ICAR | OK |
| 144 | White Washing | 2009-10 | ICAR | OK |
| 145 | Electrical Cabling | 2009-10 | ICAR | OK |
| 146 | Dedicated Earthing | 2009-10 | ICAR | OK |
| 147 | E-Com (Web cam) + CD | 31.12.2009 | ICAR | OK |
| 148 | Multimedia Speaker | 31.12.2009 | ICAR | OK |
| 149 | Head Phone with Mick | 31.12.2009 | ICAR | OK |

**1.8. Details SAC meeting conducted in 2011-12**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No.** | **Date** | **No. of Participants** | **Salient Recommendations** | **Action taken** |
| 1. | 18/10/2011 | 130 | Demonstration on weed management to be conducted | Planned under extension activities during 2012-13 |
| Rust disease surveillance in Sugarcane  Joint survey need to be conducted on sugarcane rust disease | Planned along with ARS, Sankeshwar and UAS Dharwad scientists |
| Organic bio monthly interface meetings involving farmers and state departments. | Ongoing in two organic villages and NHM 4 villages |
| Update KIOSK | As per UASD guidance |
| Send related SMS to related farmers | Crop category CIGs considered and followed |
| Establishment of ATIC at KVK | Initiated to establish ATIC |
| Invite Director of Extension of Horticulture, Veterinary universities to SAC meetings. | Considered and shall be invited for coming SAC |
| Late blight management in onion | OFT and FLD planned and will be implemented 2012-13 |
| To conduct ICM in turmeric crop | Variety and ICM approved to take up during Kharif 2012-13 |
| Demonstration to be conducted on wide row spacing (5 feet and 6 feet) in sugarcane. | ICM sugarcane is planned under external funding project during Kharif 2012-13 |
| More number of demonstrations to be conducted on leaf blight disease in maize. | Action planned during 2012-13 and shall be implemented |
| Conduct programmes on turmeric processing. | Both organic and inorganic processing is planned 2012-13 |
| Gypsum application in turmeric should be standardized | Feedback given to Research system of UASD |
| Create awareness on sericulture and animal husbandry to Sc/St farmers. | External funded project TDF for ST farmers is under way |
| Create awareness on ozi fly management and pulse intercrop in paired row. | Extension activity planned during 2012-13 |
| Promote formation on farmers club at village level | Along with KSDA, ICAR, GOI and financial Institute |
| Requested to suggest to Govt. to give provide 50% subsidy on sugarcane harvester | Policy matter – not considered to work on that issue |
| Promote micro irrigation | Demos and campaign are planned with Jain Irrigations |
| Suggested to establish micro nutrient analysis at KVK | Proposal submitted to ICAR for Spectro photometer |
| To create awareness about post harvest technology, farm machinery and marketing to farming community. | Food processing, farm machinery and exposure are planned for these issues |
| Conduct demonstration on pulse wonder in red gram | Extension activity is planned during Kharif 2012-13 |
| KVK has to take initiation on farmers to farmer approach to transfer technology. | Seed village, TOT and trainings for farmer to farmer approach are planned. |
| Create farmers data base. | Under progress of 100 farmers |
| Create awareness on different variety of fodder crops. | Fodder bank and museums on KVK farm and farmers field are planned during 2012-13 |
| KVK has to keep linkage with IGFRI. | Established linkage |
| Write a letter to state and central to conduct individual soil survey. | Witten to ICAR, GOK and is under progress |
| Solve the problems of farmers by conducting gram sabha. | Gram sabha are being attended by KVK staff |
| Solution may be find out to reduce urinated and stained cocoons | Feedback given to research system and working on that. |

**PART II - DETAILS OF DISTRICT**

2.1 Major farming systems/enterprises

|  |  |
| --- | --- |
| Farming system/enterprise | |
| **Kharif crops** | Paddy, Jowar, Bajra, Maize, Greengram, Red gram, Horse gram, Cowpea, Soybean, Sunflower, Chili, Cotton, Sugarcane, Tobacco and Mulberry. |
| **Rabi crops** | Rabi Jowar, Wheat, Kapali wheat, Maize, Sugarcane, Sunflower, Safflower, Bengal gram |
| **Summer crops** | Sugarcane, Maize, Groundnut, Soybean, Greengram |
| **Horticulture crops** | |
| **Vegetables** | Tomato, Brinjal, Chili, Coriander, Onion, Garlic, Carrot, Radish, Palak, Menthe, Sepu, Beans, Bhendi, Chavali |
| **Flowers** | Rose, Chrysanthemum, Gaillardia, Marigold, Kanakambara |
| **Fruits** | Banana, Papaya, Citrus, Grape, Mango, Sapota, Ber, Guava, Pomegranate, Custard apple, Jamun |
| Farming systems | |
| **Intercropping** | Bajra + Redgram, Groundnut + Redgram, Ragi + Sesame, Groundnut + Sunflower, Sunflower + Wheat, Bajra + Greengram, Safflower + Bengalgram, Rabi Jowar + Bengalgram, and Sunflower + Bengalgram |
| **Sequential cropping** | Soybean-Maize, Greengram-Wheat, Greengram-Sunflower, Maize-Maize, Groundnut-Rabi Jowar, Greengram-Rabi Jowar, Onion-Bengalgram |
| **High density planting** | Mango, Banana |
| **Other Enterprises** | Dairy Farming, Poultry Farming, Sheep and Goat Rearing, Kitchen Gardening, Mushroom Cultivation, Jaggery Processing, Milk and Milk Products, Raisin Making, Value Addition to Cereals, Pulses, Oil Seeds and Horticulture Crops, Processing of Tomato, Brinjal, Tamarind etc. Inland Fishery, Ornamental Fish Production, Cut Flower Production, Horticulture Nursery for Plant Propagation, Betlevine Plantation, Sericulture, Tailoring, Embroidery, Income Generating Self-Employed Home Industry Products etc. |

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

|  |  |  |
| --- | --- | --- |
| S. No | Agro-climatic Zone | Characteristics |
| 1 | Region II and Zone III  (Northern Dry Zone) | It includes Gokak, Ramadurga, Athani, Saudatti and Raibag taluks. This area comes under arid to semi arid region. Temperature of this area is moderate to hot and rainfall is uncertain. The average rainfall of this area is 500-600mm.Out of this 80% of the rainfall occurs during June-August and remaining 20% occurs during September-November. |
| 2 | Region IV and Zone VIII  (Transition Zone) | It includes four taluks of Belgaum district namely Chikkodi, Hukkeri, Belgaum and Bailhongal. Average rainfall of this area is 632-1303 and 60 per cent of rain occurs during pre monsoon-to- monsoon season. |
| 3 | Region IV and Zone IX  (Hilly Zone) | It includes only one taluk Khanapur of Belgaum district. Average rainfall of this area is 1683 mm and 75 per cent rain occurs during Kharif season. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S. No | Agro ecological situation | Characteristics | | |
| Principle crops | Intercropping | Location |
| Northern Dry-Zone | | | | |
| 1  2  3  4  5  6 | Soil-Deep black, Medium black, and Red sandy and Red loam and shallow black  Rain fall- 574 mm  Rainy day- 50 rainy days  Temp.- Max 39.50 C Min 150 C  Relative Humidity-35-70%  Source of Irrigation-Canal (M & G), Open wells and Bore wells | Kharif :  Bajra, Jowar, Greengram, Horsegram, Red gram, Black gram, Groundnut, Sunflower, Cotton  Kharif-Irrigated:  Maize, Sugarcane, Soybean, Sunflower, Hybrid cotton, Turmeric  Rabi : Jowar : Wheat, Bengalgram, Safflower, Sunflower  Rabi/Summer : Irrigated Sugarcane, Sunflower, Wheat, Kapali wheat cotton, | Bajra + Red gram  Groundnut + Red gram  Groundnut + Sunflower  Bajra + Greengram  Cotton + Chilli  Mono cropping  Rabi Jowar + Bengalgram  Wheat + Safflower + Coriander  Safflower + Bengalgram  Rabi Jowar + Groundnut  Rabi Jowar + Linseed  Mono cropping | Athani  Raibag  Gokak  Ramadurga  Savadatti |
| Transitional Zone | | | | |
| 1  2  3  4  5  6 | Medium to deep black soils Light red and shallow soils  619-1303 mm. Rainfall occurs during pre monsoon to monsoon season  56 rainy days  Temp.- Max 39.50 C Min 140 C  Relative Humidity-69-90%  Source of irrigation- Open wells and Bore wells, Canals | Kharif Dray land  Paddy, Jowar, Potato, Peas, Groundnut, Greengram, Onion and Sunflower, Tobacco, Chilli, Cotton  Kharif Irrigated  Sugarcane, cotton, Chilli,  Rabi-Dry land  Wheat, Bengalgram, Sunflower  Rabi irrigated  Sugarcane, Wheat Bengalgram | Maize + Cowpea  Chilli + Groundnut  Jowar + Red gram  Sunflower + Groundnut  Chilli + Tobacco  Cotton + Chilli  Jowar + Bengalgram  Summer –Sugarcane, Groundnut, Soybean, Maize, Cotton,  Safflower + Bengalgram  Mono cropping | Chikkodi  Hukkeri  Belgaum  Bailhongal |
| Hilly Zone | | | | |
| 1  2  3  4  5  6 | Red loamy and Laterite soils  1475-1683 mm  90 rainy days  Temp.- Max 29.50 C Min140C  Relative Humidity-  Source of irrigation Open wells and Bore wells | Kharif : Paddy, Sugarcane, Sweet potato, Potato, Lentil  Rabi: Suger cane, Pulses, Groundnut, Maize,Ragi,Chilli,  Rabi/Summer:  Sugar cane, Groundnut, Cotton | Mono cropping | Khanapur |

2.3 Soil type/s

|  |  |  |
| --- | --- | --- |
| S. No | Soil type | Characteristics |
| 1 | Deep black soils | Deep, moderately well drained, Dark grayish brown to very dark grayish brown, calcareous cracking clay to salty clay soils moderately to severely eroded |
| 2 | Medium deep black soil | Moderately deep, moderately well drained, dark brown to very dark grayish brown, non calcareous cracking clay to salty clay soils, moderately to severely eroded |
| 3 | Shallow black soils | Shallow, well-drained grey to dark grey and brown clay loam to salty clay loam soils, severely eroded. |
| 4 | Red sandy soils | Shallow well drained to excessively drained, reddish brown to Yellowish brown, gravely sandy loam to sandy clay loam, moderate to severely eroded |
| 5 | Red loam Soils | Shallow, excessively drained to well drained, reddish brown to yellowish red, sandy clay loam to sandy loam soils, moderately to severely eroded. |
| 6 | **Laterite soils** | Deep, well drained to excessively drained yellowish red to dark reddish brown, gravely, sandy clay and clay surface soils moderately to severely eroded with surface crusting. |

|  |  |  |
| --- | --- | --- |
| **Major Soils** | **Area (‘000 ha)** | **Percent (%) of total** |
| 1. Black | 612.419 ha | 46 |
| 2. Red | 346.079 ha | 26 |
| 3. Sandy Soils | 161.031 ha | 12 |
| 4. Sandy loam | 63.256 ha | 5 |
| 5. Others |  |  |
| Agricultural land use | 161597 ha | Cropping intensity % (125%) |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S. No | Crop | Area (ha) | Production (Metric tons) | Productivity (kg /ha) |
| 1 | Paddy | 73000 | 171950 | 2355 |
| 2 | Jowar | 166700 | 186635 | 4002 |
| 3 | Bajra | 14000 | 7980 | 570 |
| 4 | Maize | 152000 | 607600 | 11746 |
| 5 | Ragi | 1000 | 1100 | 1100 |
| 6 | Wheat | 68000 | 133500 | 1963 |
| 7 | Red gram | 7000 | 5300 | 757 |
| 8 | Black gram | 8000 | 6375 | 797 |
| 9 | Horsegram | 7500 | 5315 | 1603 |
| 10 | Greengram | 32000 | 24125 | 754 |
| 11 | Bengalgram | 65000 | 68125 | 1048 |
| 12 | Groundnut | 59200 | 90050 | 3024 |
| 13 | Soybean | 115500 | 163625 | 3663 |
| 14 | Sunflower | 38500 | 42813 | 3420 |
| 15 | Safflower | 6500 | 3250 | 500 |
| 16 | Cotton | 25000 | Bales 287574 | Bales 11053 |
| 17 | Sugarcane | 160000 | Tonnes 15200000 | Tonnes 95 |
| 18 | Tobacco | 17000 | 17000 | 1000 |

\* Source : JOINT DIRECTOR OFAGRICULTURE, BELGAUM DISTRICT, BELGAUM

2.5. Weather data

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Month | Rainfall (mm) | Temperature 0 C | | Relative Humidity (%) |
|  |  | Maximum | Minimum |  |
| April | 92.0 | 36.19 | 18.2 | 68.78 |
| May | 85.6 | 36.43 | 19.9 | 63.03 |
| June | 85.1 | 21.88 | 20.9 | 77.80 |
| July | 61.3 | 31.6 | 26.1 | 95 |
| Aug | 85.6 | 31 | 27.8 | 97.1 |
| Sept | 29.2 | 35.4 | 20.2 | 93 |
| Oct | 212.9 | 32.6 | 29.4 | 95 |
| Nov | 0 | 30.5 | 25.6 | 89 |
| Dec | 0 | 31.1 | 28 | 95 |
| Jan | 0 | 32.2 | 24 | 89 |
| Feb | 0 | 33.8 | 29.9 | 94 |
| March | 0 | 39 | 36 | 98 |

\* Source : Weather Station, ARS, Arabhavi

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Category** | **Population** | **Production** | **Productivity** |
| **Cattle** | | | |
| *Crossbred* | 63424 | Milk 5.21 lakh m. tons | Cattle meat 102.45 kg |
| *Indigenous* | 444148 |  |  |
| **Buffalo** | 701196 |  | Buffalo meat 106.21 kg |
| **Sheep** |  | Meat – 6205 lakh tons | Sheep meat 14.42 kg |
| *Indigenous* | 902555 |  |  |
| **Goats** | 508776 | Wool – 521 m. tons | Goat meat 14.11 kg |
| **Pigs** |  |  | Wool 748gms/sheep/year |
| *Crossbred* | 172 |  |  |
| *Indigenous* | 27811 |  |  |
| **Poultry** | 847189 |  | Poultry meat – 1.372 kg |

|  |  |  |  |
| --- | --- | --- | --- |
| **Category** | **Area** | **Production** | **Productivity** |
| Fish | | | |
| *Inlan***-** | | | |
| Carps | 3322 ha tanks; 22626 ha reservoir | 4505 MT | 9-10 qtl/ha/yr in tanks; 12.5 kg/ha/yr in reservoirs |

\* Source: **State Department of Animal Husbandry and Veterinary Sciences and fishery**

* 1. District profile has been **Updated** for 2011-12 Yes / No: Yes

2.8 Details of Operational area / Villages

| **Sl. No.** | **Taluk** | **Name of the block** | **Name of the village** | **How long the village is covered under operational area of the KVK (specify the years)** | **Major crops & enterprises** | **Major problem identified** | **Identified Thrust Areas** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | Athani and Savadatti | Athani and Muragod | Shegunashi and Muragod | 2011-12 | soybean | Low yield of farm saved seeds, No seed treatment with bio fertilizers, Improper doses of NPK fertilizer  (35 : 50 : 25 kgs/ha) and reduced seed weight | Varietal  ( JS-335) +INM |
| 2 | Ramadurga and Hukkeri | Sureban and Hukkeri | Avaradi and Ghodageri | 2011-12 | Groundnut | Conventional method of sowing ,Moisture stress,  No seed treatment with bio fertilizers , Less  application of Gypsum (250kg/ha) yield loss 12% | Varietal with INM |
| 3 | Hukkeri | Hukkeri | Shindihatti and Hattialur | 2011-12 | Groundnut | low potential yield in existing variety TMV-2,  Medium size with shriveled seeds  No Seed treatment with bio fertilizer - and weed flora | Integrated crop management |
| 4 | Ramadurga | Sureban | Avaradi and Shivapet | 2011-12 | Greengram | Reduction of viability of farm saved china mung seeds ,  No seed treatment with Trichoderma and  Biofertiliser, Less application of organic manures ,  Pod borer infestation  Powdery mildew disease incidence | ICM |
| 5 | Kakamari and Adalahatti | Athani | Telasang | 2010-11 and 2011-12 | Redgram | Reduction of viability of farm saved seeds (TS-3) and long durated (180-190days)  No seed treatment with Trichoderma and biofertiliser ,  Less application of organic | ICM |
| 6 | Ramadurga | Sureban | Shivapet and Murgod | 2011-12 | Bengalgram | Reduction of viability of farm saved A-1 seeds ,  No Seed treatment with biofertilizers and Trichoderma, Helicoverpa infestation Wilt disease incidence | ICM |
| 7 | Gokak | Mudalgi | Hallur | 20110-11 | Maize | Chlorosis ,stunted growth and Shorter intermodal length, Incidence of blight & rust diseases | ICM |
| 8 | Athani | Athani | Sankratti | 2011-12 | Maize | Chlorosis ,stunted growth and Shorter intermodal length, Incidence of blight & rust diseases | Zn and Fe Management |
| 9 | Gokak | Mudalgi | Hallur | 2010-11 | Sugarcane | Chlorosis ,stunted growth and Shorter intermodal length | Zn and Fe Management |
| 10 | Athani | Athani | Shegunashi | 2011-12 | Sugarcane | Chlorosis ,stunted growth and Shorter intermodal length | Zn and Fe Management |
| 11 | Athani | Hukkeri | Yaragatti | 2011-12 | Groundnut | low potential yield in existing variety TMV-2,  Medium size with shriveled seeds and less demand for Marketing | Varietal Evaluation |
| 12 | Chikkodi | Chikkodi | Examba | 1 | Sugarcane | Incidence of root grub reduces yield due to reduction in plant population | To show the effectiveness of  Metarrizium anisopliae with Phorate |
| 13 | Chikkodi | Chikkodi | Manjari | 1 | Onion | Purple blotch disease reduce bulb size and yield | Disease management with the use of more effective new generation fungicide |
| 14 | Chikkodi | Chikkodi | Manjari | 1 | Onion | Thrips pest causes leaf damage which leads reduction in yield | Assessment of effectiveness of new insecticide for onion thrips management |
| 15 | Hukkeri | Hukkeri | Yamakanamardi | 1 | Bitter gourd | Fruit fly incidence causes fruit rot hence yield reduces | Identification of suitable trap for mass trapping & killing adult melon fruit fly to reduce fruit damage |
| 16 | Raibag,  Gokak, Athani,  Bailhongal | - | Bendwad, Tukkanatti, Shegunashi, Murgod | 6 years | Turmeric | Low potential yield of existing local varieties-Kadapa, Salem | Assessment of BSR-1 turmeric variety |
| 17 | Raibag | Raibag | Nipanal | 4 | Sugarcane, Maize,  Kapali wheat,  Mulberry | Poor economic returns and beneficial exploitation of inter row spacing in mulberry under paired row. | Turmeric intercropping in mulberry under paired row |
| 18 | Raibag | Raibag | Mantur | 2 | Sugarcane, Maize,  Kapali wheat,  Mulberry | Low quality of existing breed  (PM X CSR2) | Improved quality breed CSR (2X4) |
| 19 | Gokak | Gokak | Tukkanatti | 4 | Sugarcane, Maize  Kapali wheat,  Mulberry | Reduced egg hatching percent and increased mortality of worms | Promotion of incubation frame for loose eggs |
| 20 | Gokak | Gokak | Rajapur | 5 | Sugarcane, Maize  Kapali wheat,  Mulberry | Mortality due to un equal size of worms | Promotion of Juvenile hormone for uniform maturation of silkworms. |
| 21 | Gokak | Gokak | Jamunal  Pudakalkatti  Khanagon  Keshappanatti  Yelpatti | 2 | Jowar  Groundnut  Maize  Sugarcane | Reduced crop yield and high N application | Promotion of soil and water testing |
| 22 | Gokak | Gokak | Tigadi | 4 | Sugarcane  Maize  Mulberry | Flacharie and Grassarie diseases in silk worm rearing. | Maintenance of humidity and temperature at silk worm rearing house in summer season. |
| 23 | Gokak | Gokak | Gilihosur | 2011-12 | Tamarind | Manual dehulling and deseeding is laborious and time consuming | Promotion of Dehuller-cum-Deseeder |
| 24 | Ramadurga and Savadatti | Ramadurga and Savadatti | Shivapet and Murgod | 2011-12 | Bengal gram | Harvesting with bare hands causes Injuries and boils to hand | Promotion of hand gloves |
| 25 | Hukkeri | Hukkeri | Sindihatti and Hattialur | 2011-12 | Groundnut | Manual shelling of groundnut involves drudgery and time consuming | Promotion of groundnut decorticators |
| 26 | Savadatti | Savadatti | Murgod | 2011-12 | Hand Hoe Weeder | Weed flora | Promotion of hand hoe weeder |
| 27 | Gokak and Hukkeri | Gokak and Hukkeri | Bilakundi, Hallur, Khanagoan and Parakanatti | 2011-12 | Fodder | Use of roughphages | Promotion of high yielding fodder varieties |

2.9 Priority thrust areas

|  |  |
| --- | --- |
| **S. No** | **Thrust area** |
| 1 | Assessment of different genotypes in ground nut TMV-2,GPBD-4 and ICGV-91114 |
| 2 | Integrated crop management in Redgram, Greengram Maize and Bengal gram |
| 3 | Integrated Nutrient management in Maize |
| 4 | Iron and Zinc management in sugarcane and Maize |
| 5 | Promotion of Greengram – Shinamung, Bengalgram – JG – 11, Redgram-TS-3Rand Maize-Arjun |
| 6 | To show the effectiveness of *Metarrizium anisopliae* in combination with phorate in sugarcane |
| 7 | Assessment of effectiveness of new insecticide for onion thrips management in onion |
| 8 | Disease management with the use of more effective new generation fungicide in onion |
| 9 | Identification of suitable trap for mass trapping & killing adult melon fruit fly to reduce fruit damage in bittergourd |
| 10 | Assessment of BSR-1 turmeric variety |
| 11 | Turmeric intercropping in mulberry under paired row |
| 12 | Improved quality breed CSR (2X4) |
| 13 | Promotion of incubation frame for loose eggs |
| 14 | Promotion of Juvenile hormone for uniform maturation of silkworms. |
| 15 | Promotion of soil and water testing |
| 16 | Maintenance of humidity and temperature at silk worm rearing house in summer season. |
| 17 | Drudgery reduction |
| 18 | Promotion of high yielding fodder varieties |

**PART III - TECHNICAL ACHIEVEMENTS**

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **OFT** | | | | **FLD** | | | |
| **1** | | | | **2** | | | |
| **Number of OFTs** | | **Number of farmers** | | **Number of FLDs** | | **Number of farmers** | |
| **Targets** | **Achievement** | **Targets** | **Achievement** | **Targets** | **Achievement** | **Targets** | **Achievement** |
| 7 | 7 | 35 | 35 | 19 | 19 | 256 | 256 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Training** | | | | **Extension Programmes** | | | |
| **3** | | | | **4** | | | |
| **Number of Courses** | | **Number of Participants** | | **Number of Programmes** | | **Number of participants** | |
| **Targets** | **Achievement** | **Targets** | **Achievement** | **Targets** | **Achievement** | **Targets** | **Achievement** |
| 126 | 132 | 2423 | 2612 | 641 | 653 | 5514 | 6334 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Seed Production (Qtls.)** | | **Planting materials (Nos.)** | |
| **5** | | **6** | |
| **Target** | **Achievement** | **Target** | **Achievement** |
| Cereals-48 | Cereals-48 | Mango- 2000 | Mango- 2000 |
| Pulses-6.9 | Pulses-6.9 | Jamun-2000 | Jamun-2000 |
| Oilseeds-11.7 | Oilseeds-11.7 | Guava-1000 | Guava-1000 |
| Seed cocoons-50kg | Seed cocoons- 58.20 | Gladiolus-250 | Gladiolus-250 |
| Turmeric yield under mulberry intercrop-80kg | Turmeric yield under mulberry intercrop-26kg | Tuberos-5 kgs | Tuberos-5 kgs |

|  |  |  |  |
| --- | --- | --- | --- |
| **Livestock, poultry strains and fingerlings (No.)** | | **Bio-products (Kg)** | |
| **7** | | **8** | |
| **Target** | **Achievement** | **Target** | **Achievement** |
| Guppy & Swordtail-625 | Guppy & Swordtile-625 | Vermicompost - 10 t | 8.250 t |
|  |  | Earth worms – 25 kg | 14 kg |
|  |  | Micromus larvae- 8000 | 6000 Nos |
|  |  |  |  |

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

| **S. No** | **Thrust area** | **Crop/**  **Enterprise** | **Identified Problem** | **Interventions** | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Title of OFT if any** | **Title of FLD if any** | **Number of Training (farmers)** | **Number of Training (Youths)** | **Number of Training (extension personnel)** | **Extension activities**  **(No.)** | **Supply of seeds (Qtl.)** | **Supply of planting materials (No.)** | **Supply of livestock (No.)** | **Supply of bio products** | |
| **No.** | **Kg** |
| 1 | Varietal Evaluation | Groundnut | low potential yield in existing variety TMV-2,  Medium size with shriveled seeds and less demand for Marketing | Assessment of different genotypes of TMV-2,GPBD-4 and IGVV-91114 in Groundnut | - | 02 | - | - | 05 | Seeds-4.8 | - | - | - | - |
| 2 | Varietal  ( JS-335) +INM | Soybean | Low yield of farm saved seeds, No seed treatment with bio fertilizers, Improper doses of NPK fertilizer  (35 : 50 : 25 kgs/ha) and reduced seed weight | - | Varietal  ( JS-335) +INM | 02 | - | - | 07 | Seeds- 7.5 | - | - | - | Rhizobium-12.5  PSB-12. 5 |
| 3 | Varietal with INM | Groundnut | Conventional method of sowing ,Moisture stress,  No seed treatment with biofertilizers , Less  application of Gypsum (250kg/ha) yield loss 12% | - | Varietal + INM | 02 | - | - | 05 | Seeds-6.25 | - | - | - | Tricoderm-2.5  Rhizobium-  6.25  PSB-6.25 |
| 4 | Integrated crop management | Groundnut | low potential yield in existing variety TMV-2,  Medium size with shriveled seeds  No Seed treatment with bio fertilizer - and weed flora | - | ICM | 01 | - | - | 5.0 | Seeds-7.5 | - | - | - | Tricoderm-2.5  Rhizobium-  6.25  PSB-6.25 |
| 5 | ICM | Green gram | Reduction of viability of farm saved china mung seeds ,  No seed treatment with Trichoderma and  Biofertiliser, Less application of organic manures ,  Pod borer infestation  Powdery mildew disease incidence | - | ICM | 02 | - | - | 8.0 | Seeds-2.0 | - | - | - | Tricoderm-4.0  Rhizobium-4.0  PSB-4.0 |
| 6 | ICM | Red gram | Reduction of viability of farm saved seeds (TS-3) and long durated (180-190days)  No seed treatment with Trichoderma and biofertiliser ,  Less application of organic | - | ICM | 03 | - | - | 10.0 | Seeds: 1.5 | - | - | Traps:50  Lures: 150 | Tricoderm-5.0  Rhizobium-5.0  PSB-5.0  HNPV-5000LE |
| 7 | ICM | Bengalgram | Reduction of viability of farm saved A-1 seeds ,  No Seed treatment with biofertilizers and Trichoderma, Helicoverpa infestation Wilt disease incidence | - | ICM | 02 | - | - | 8.0 | Seeds:2.58 | - | - | Traps:40  Lures: 60 | Tricoderm-4.0  Rhizobium-12.0  PSB-12.0  HNPV-2000LE |
| 8 | ICM | Maize | Chlorosis ,stunted growth and Shorter intermodal length, Incidence of blight & rust diseases | - | ICM | 01 | - | - | 5.0 | Seeds: | - | - | - | - |
| 9 | Zn and Fe Mgmt | Maize | Chlorosis ,stunted growth and Shorter intermodal length, Incidence of blight & rust diseases | - | Zinc and Iron Management | 02 | - | - | 5.0 | Seeds:93.75 | - | - | - | - |
| 10 | Zn and Fe Management | Sugarcane | Chlorosis ,stunted growth and Shorter intermodal length | - | Zn and Fe Management | 03 | - | - | 4.0 | - | - | - | - | - |
| 11 | Zn and Fe Management | Sugarcane | Chlorosis ,stunted growth and Shorter intermodal length | - | Zn and Fe Management | 01 | - | - | 4.0 | - | - | - | - | - |
| 12 | Identification new insecticide for onion thrips management | Onion | Severe thrips infestation reducing the yield | Assessment of efficacy of new insecticide in the management of onion thrips | **-** | 1 | 1 | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| 13 | Identification of suitable trap for mass trapping & killing adult melon fruit fly to reduce fruit damage in bittergourd | Bittergourd | Fruit fly causes fruit rot hence yield reduces | Assessment of efficacy of different baits in the melon fruit fly management | - | 1 | 1 | - | - | - | - | - | - | - |
| 14 | To show the effectiveness of  *Metarrizium anisopliae* in combination with phorate in sugarcane | Sugarcane | Incidence of root grub reduces yield due to reduction in plant population | - | Management of root grub in sugarcane | 2 | 1 | - | - | - | - | - | - | - |
| 15 | Disease management with the use of more effective new generation fungicide in onion | Onion | Purple blotch disease reduce bulb size and yield | - | Management of purple disease in onion | 2 | 1 | - | - | - | - | - | - | - |
| 16 | Assessment of BSR-1 turmeric variety | Turmeric | Low potential yield of existing local varieties-Kadapa, Salem | Assessment of BSR-1 turmeric variety | **-** | 3 | 1 | - | 11 | 7.5 | - | - | - | - |
| 17 | Turmeric intercropping in mulberry under paired row | mulberry | Poor economic returns and beneficial exploitation of inter row spacing in mulberry under paired row. | Assessment of turmeric intercropping in mulberry under paired row | - | 2 | 1 | 1 | 5 | - | - | - | - | - |
| 18 | Improved quality breed CSR (2X4) | Silkworm | Low quality of existing breed (PM X CSR2) | - | Improved quality breed CSR (2X4) | 2 | - | - | 3 | - | - | - | - | - |
| 19 | Promotion of incubation frame for loose eggs | Silkworm | Reduced egg hatching percent and increased mortality of worms | - | Promotion of incubation frame for loose eggs | 2 | - | - | 4 | - | - | - | - | - |
| 20 | Promotion of Juvenile hormone for uniform maturation of silkworms. | Silkworm | Mortality due to un equal size of worms | - | Promotion of Juvenile hormone for uniform maturation of silkworms. | 2 | - | - | 3 | - | - | - | - | - |
| 21 | Promotion of soil and water testing | Mulberry | Reduced crop yield and high N application | - | - | 3 | 2 | 2 | 6 | - | - | - | - | - |
| 22 | Maintenance of humidity and temperature at silk worm rearing house in summer season. | Silkworm | Flacharie and Grassarie diseases in silk worm rearing. | - | - | 2 | 2 | 1 | 5 | - | - | - | - | - |
| 23 | Drudgery reduction | Bengal gram | Harvesting with bare hands causes Injuries and boils to hand | Use of hand gloves | - | 1 | - | **-** | **5** | **-** | **-** | **-** | **-** | **-** |
| 24 | Drudgery reduction | Tamarind | Manual dehulling and deseeding is laborious and time consuming | - | Promotion of tamarind dehuller-cum-deseeder | 2 | - | - | 4 |  |  |  |  |  |
| 25 | Drudgery reduction | Groundnut | Manual shelling of groundnut involves drudgery and time consuming | - | Promotion Groundnut decorticator | 2 | - | - | 6 | - | - | - | - | - |
| 26 | Drudgery reduction |  | Weed flora | - | Introduction of hand hoe weeder | 1 | - | - | 3 | - | - | - | - | - |
| 27 | Promotion of high yielding fodder varieties | Fodder | Use of roughphages | - | Introduction of grass and leguminous fodder varieties | 4 | - | - | 8 | - | - | - | - | - |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S. No** | **Title of Technology** | **Source of technology** | **Crop/enterprise** | **No. of programmes conducted** | | | |
| **OFT** | **FLD** | **Training** | **Others (Specify)** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** |
| 1 | Assessment of different genotypes of TMV-2,GPBD-4 and IGVV-91114 in Groundnut | UAS Dharwad | Groundnut | 01 |  | 02 | - |
| 2 | Varietal  ( JS-335) +INM | UAS Dharwad | Soybean | - | 01 | 01 | - |
| 3 | Varietal with INM | UAS Dharwad | Groundnut | - | 01 | 02 | - |
| 4 | Integrated crop management | UAS Dharwad | Groundnut | - | 01 | 01 | - |
| 5 | ICM | UAS Dharwad | Greengram | - | 01 | 02 | - |
| 6 | ICM | ARS Gulbarga | Redgram | - | 01 | 03 | - |
| 7 | ICM | AUAS Dharwad | Bengalgram | - | 01 | 02 | - |
| 8 | ICM | ARS Arabhavi | Maize | - | 01 | 02 | - |
| 9 | Zn and Fe Management | ARS Arabhavi | Maize | - | 01 | 01 |  |
| 10 | Zn and Fe Management | ARS Sankeshwar | Sugarcane | - | 01 | 02 |  |
| 11 | Zn and Fe Management | ARS Sankeshwar | Sugarcane | - | 01 | 01 | - |
| 12 | Assessment of efficacy of new insecticide in the management of onion thrips | NRC, Onion & Garlic | Onion | 10 | - | 2 | Farmers meeting – 2 |
| 13 | Assessment of efficacy of different baits in the melon fruit fly management | IIVR Varanasi | Bittergourd | 10 | - | 2 | Farmers meeting – 2 |
| 14 | To show the effectiveness of  *Metarrizium anisopliae* in combination with phorate in sugarcane | UASD | Sugarcane | - | 12 | 3 | Farmers meeting – 2 |
| 15 | Disease management with the use of more effective new generation fungicide in onion | UASD | Onion | - | 20 | 3 | Farmers meeting – 1 |
| 16 | Assessment of BSR-1 turmeric variety | TNAU | TNAU | 1 | - | 3 | - |
| 17 | Assessment of turmeric intercropping in mulberry under paired row | UAS Dharwad | Mulberry | OFT | - | 4 | 5 |
| 18 | Improved quality breed CSR (2X4) | CSR&TI Mysore | Silkworm | - | FLD | 2 | Field visit -2  Advisory service-1 |
| 19 | Promotion of incubation frame for loose eggs | CSR&TI Mysore | Silkworm | - | FLD | 2 | Field visit -2  Advisory service-1  Diagnostic support-1 |
| 20 | Promotion of Juvenile hormone for uniform maturation of silkworms. | CSR&TI Mysore | Silkworm | - | FLD | 2 | Field visit -2  Advisory service-1 |
| 21 | Use of hand gloves | AICRP-T and C, UAS Dharwad | Bengal gram | 1 | - | 1 | - |
| 22 | Promotion of tamarind dehuller-cum-deseeder | GKVK, Bangalore | Tamarind | - | 1 | 2 | - |
| 23 | Promotion groundnut decorticator | CAE, Raichur | Groundnut | - | 1 | 2 | - |
| 24 | Introduction of hand hoe weeder | CIAE, Bhopal | Green gram | - | 1 | 1 | - |
| 25 | Introduction of grass and leguminous fodder varieties | IGFRI, Dharwad | Guinea, Signal, Rhodes and Lucerne | - | 1 | 4 | - |

**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** |
| 07 | - | 01 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | 17 | 2 | 4 | 2 | 21 | 3 | 6 | 4 | - | - | - | - |
| - | - | - | - | 8 | 1 | 3 | - | 11 | 1 | 2 | - | - | - | - | - |
| - | - | - | - | 10 | - | 2 | - | 9 | 3 | 1 | - | - | - | - | - |
| - | - | - | - | 11 | 6 | 3 | - | 18 | 9 | 11 | 3 | - | - | - | - |
| - | -- | - | - | 17 | 4 | 4 | - | 48 | 10 | 12 | 1 | - | - | - | - |
| - | - | - | - | 15 | 2 | 3 | - | 25 | 4 | 6 | 3 | - | - | - | - |
| - | - | - | - | 8 | 1 | 1 | - | 17 | 3 | 2 | 4 | - | - | - | - |
| - | - | - | - | 8 | - | 2 | - | 19 | 2 | 4 | 1 |  |  |  |  |
| - | - | - | - | 8 | - | 2 | - | 17 | 2 | 3 | 1 | - | - | - | - |
| - | - | - | - | 10 | - | 2 | - | 9 | 2 | 3 | 1 | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | - | - | - | - | - | - | - | 35 | - | - | - | 81 | 0 | 0 | 0 |
| 10 | - | - | - | - | - | - | - | 33 | 2 | - | - | 64 | 0 | 0 | 0 |
| - | - | - | - | 10 | 2 | - | - | 59 | 3 | - | - | 97 | 0 | 0 | 0 |
| - | - | - | - | 17 | 3 | - | - | 62 | 2 | - | - | 127 | 0 | 0 | 0 |
| 4 | 1 | - | - | - | - | - | - | 47 | 5 | 2 | 1 | 46 | 17 | 2 | 5 |
| 4 | - | - | - | - | - | - | - | 37 | 8 | 1 | - | Scientific field visit-13  Advisory service-8 | 3  4 | 2  3 | -  1 |
| - | - | - | - | 5 | - | - | - | 18 | - | - | - | Scientific field visit-8  Advisory service-7 | 1  - | 1  - | -  - |
| - | - | - | - | 10 | - | - | - | 25 | 5 | - | - | Scientific field visit-14  Advisory service-10 | 2  1 | 2  1 | -  - |
| - | - | - | - | 10 | - | - | - | 28 | 4 | - | - | Scientific field visit-16  Advisory service-15  Diagnostic support-10 | 3  -  1 | 1  -  - | -  -  - |
| - | 5 | - | - | - | - | - | - | - | 12 | - | - | - | - | - | - |
| - | - | - | - | - | - | - | 5 | - | - | - | 10 | - | - | - | - |
| - | - | - | - |  | 8 | - | 2 | 12 | 14 | - | 6 | - | - | - | - |
| - | - | - | - | 4 | 7 | - | 4 | 5 | 9 | - | 4 | - | - | - | - |
| - | - | - | - | 7 | - | 3 | - | 12 | - | 8 | - | - | - | - | - |

**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 | - | Groundnut-1 | - | - | - | - | - | Turmeric - 1 | - | 2 |
| Integrated Pest Management | - | - | - | - | Bitter gourd and onion - 2 | - | - | - | - | 2 |
| Integrated Crop Management |  |  |  |  |  |  |  |  |  |  |
| Integrated Disease Management |  |  |  |  |  |  |  |  |  |  |
| Small Scale Income Generation Enterprises |  |  |  |  |  |  |  |  |  |  |
| Weed Management |  |  |  |  |  |  |  |  |  |  |
| Resource Conservation Technology | - | - | - | Inter space in mulberry - 1 | - | - | - | - | - | 1 |
| Farm Machineries |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming System |  |  |  |  |  |  |  |  |  |  |
| Seed / Plant production |  |  |  |  |  |  |  |  |  |  |
| Value addition | - | - | - | Azolla spray on mulberry leaves - 1 | - | - | - | - | - | 1 |
| Drudgery Reduction |  |  |  |  |  |  |  |  |  |  |
| Storage Technique |  |  |  |  |  |  |  |  |  |  |
| Fish farming | - | - | - | Carp species -1 | - | - | - | - | - | 1 |
| Total | - | 1 | - | 3 | 2 | - | - | 1 | - | 7 |

**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 |  |  |  |  |  |  |  |  |  |  |
| Mushroom cultivation |  |  |  |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  |  |  |  |  |

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

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

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

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

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

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Thematic areas** | **Crop** | **Name of the technology assessed** | **No. of trials** | **Number of farmers** | **Area in ha (Per trail covering all the Technological Options)** |
| Integrated Nutrient Management |  |  |  |  |  |
|  |  |  |  |  |
| Varietal Evaluation | Groundnut | Different genotypes of TMV-2,GPBD-4 and ICGV-91114 | 8 | 8 | 0.4 |
| Turmeric | Assessment of BSR-1 turmeric variety | 5 | 5 | 0.9 |
| Integrated Pest Management | Onion | Assessment of efficacy of new insecticide in the management of onion thrips | 10 | 10 | 0.3 |
| Bittergourd | Assessment of efficacy of different baits in the melon fruit fly management | 10 | 10 | 0.3 |
| Integrated Crop Management |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Disease Management |  |  |  |  |  |
|  |  |  |  |  |
| Small Scale Income Generation Enterprises |  |  |  |  |  |
|  |  |  |  |  |
| Weed Management |  |  |  |  |  |
|  |  |  |  |  |
| Resource Conservation Technology | Mulberry sole crop | Assessment of mulberry sole crop under paired row | 4 | 4 | 0.04 |
| turmeric intercropping in mulberry | Assessment of turmeric intercropping in mulberry under paired row | 4 | 4 | 0.04 |
| Farm Machineries |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Farming System |  |  |  |  |  |
|  |  |  |  |  |
| Seed / Plant production |  |  |  |  |  |
|  |  |  |  |  |
| Value addition |  |  |  |  |  |
|  |  |  |  |  |
| Drudgery Reduction | Bengal gram | Use of hand gloves | 5 | 5 | 2.0 |
|  |  |  |  |  |
| Storage Technique |  |  |  |  |  |
|  |  |  |  |  |
| Mushroom cultivation |  |  |  |  |  |
|  |  |  |  |  |
| **Total** |  |  | 46 | 46 | 3.98 |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Thematic areas** | **Crop** | **Name of the technology assessed** | **No. of trials** | **Number of farmers** | **Area in ha (Per trail covering all the Technological Options)** |
| Integrated Nutrient Management |  |  |  |  |  |
|  |  |  |  |  |
| Varietal Evaluation |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Pest Management |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Crop Management |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Disease Management |  |  |  |  |  |
|  |  |  |  |  |
| Small Scale Income Generation Enterprises |  |  |  |  |  |
|  |  |  |  |  |
| Weed Management |  |  |  |  |  |
|  |  |  |  |  |
| Resource Conservation Technology |  |  |  |  |  |
|  |  |  |  |  |
| Farm Machineries |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Farming System |  |  |  |  |  |
|  |  |  |  |  |
| Seed / Plant production |  |  |  |  |  |
|  |  |  |  |  |
| Value addition |  |  |  |  |  |
|  |  |  |  |  |
| Drudgery Reduction |  |  |  |  |  |
|  |  |  |  |  |
| Storage Technique |  |  |  |  |  |
|  |  |  |  |  |
| Mushroom cultivation |  |  |  |  |  |
|  |  |  |  |  |
| **Total** |  |  |  |  |  |

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

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

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

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

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

**Results of On Farm Trial**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Crop/ enterprise** | **Farming situation** | **Problem definition** | **Title of OFT** | **No. of**  **trials** | **Technology Assessed** | **Parameters of assessment** | **Data on the parameter** | **Results of assessment** | **Feedback from the farmer** | **Any refinement needed** | **Justification for refinement** |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Groundnut | Irrigated | low potential yield in existing variety  TMV-2,  Medium size with shriveled seeds and less demand for Marketing | Assessment of different genotypes of TMV-2,GPBD-4 and ICGV-91114 | 08 | T0- Farm saved seeds of TMV-2, 45x10cms, Seeds 120kg/ha, 35:40:20NPK Kg/ha,  T1- Certified variety, GPBD-4, 30x 10cms,Seeds -150kg/ha,  Rhizobium-1.25kg/ha,PSB-1.25kg/ha,PK25.50:25:00Kg/ha, Gysum@500kg/ha,  **T**2-Certified variety, ICGV-91114, 30x 10cms,Seeds -150kg/ha,  Rhizobium-1.25kg/ha, PSB-1.25kg/ha, NPK 25.50:25:00 Kg/ha, Gysum@500kg/ha, | Plant height (cms)  No. of Pods/ Plant  No of seeds / Pod  PDI (%)  Tikka  100 grain Wt. (g)  Yield (qtl./ha)  Percent Increase yield  Plant height (cms)  No. of Pods/ Plant  No of seeds / Pod  PDI (%)  Tikka  100 grain Wt. (g)  Yield (qtl./ha)  Percent Increase yield  Plant height (cms)  No. of Pods/ Plant  No of seeds / Pod  PDI (%)  Tikka  100 grain Wt. (g)  Yield (qtl./ha)  Percent Increase yield | 56.70  66  1.5  68  27.50  15.98  43.25  112  1.5  2  32.25  22.80  42.67  37.55  95  1.6  53  23.97  50.00 | 15.98  22.80  23.97 | - | - | - |
| Onion | Irrigated | Severe thrips infestation destruct foliage and it reduces the yield | Assessment of efficacy of new insecticide in the management of onion thrips | 10 | Indiscriminate use of pesticides | Avg. Population (No)  % pest reduction  Yield (t/ha) | Before spray: 19.21  After 3rd of spray: 10.06  52.36 %  14.47 | 14.47 t/ha | More leaf damaged and small sized bulb | - | - |
| 10 | Two Spray of Dimethoate @ 1.7 ml/l | Avg. Population (No)  % pest reduction  Yield (t/ha) | Before spray: 25.61  After 3rd of spray: 7.08  27.64 %  16.13 | 16.13 t/ha | Protected leaf effectively and cost effective | - | - |
| 10 | Maize as border crop  *λ-cyhalothrin* 0.5ml/l  (2 spray) | Avg. Population (No)  % pest reduction  Yield (t/ha) |  | 17.83 t/ha | Protected leaf effectively Bulb size and yield increased and is also cost effective | - | - |
| Bittergourd | Irrigated | Fruit fly causes fruit rot hence yield reduces | Assessment of efficacy of different baits in the melon fruit fly management | 10 | Spray of insecticides melothion @ 2ml/lit immediately after incidence for two times | Per cent fruit infestation  Yield (t/ha) | 27.91 %  11.23 | 11.23 t/ha | Not found satisfactory control | - | - |
| 10 | Spray of bait containing of melothion @ 2 ml/lit + Jaggery 10g/lit at 5th, 8th and 11th WAS | Per cent fruit infestation  Yield (t/ha) | 6.27 %  13.69 | 13.69 t/ha | Observed good control | - | - |
| 10 | Keeping of food bait containing pots @ 25/ha (food bait composition – Banana pulp 1 kg + yeast 10g + melothion 10 ml + citric acid 3 g | Per cent fruit infestation  Yield (t/ha) | 7.83 %  12.94 | 12.94 t/ha | It has given good control and it is easy to use and less labour oriented | - | - |
| Turmeric | Irrigation | Low yield in turmeric is due to lower yielding ability of Salem and Kadapa varieties of turmeric. | Assessment of BSR-1 turmeric variety | 5 | Varietal assessment | Plant height(cm)  Av. Wt. of fresh rhizome(kg)  Av. Wt. of dry rhizome(kg)  Pl.popln.  Yield(t/ha) | 127.9  0.5975  0.1195  55556  6.64 | T0-5.23t/ha  T1- 6.24t/ha  T2- 6.64t/ha | BSR-1 is is higher yielding than existing varieties viz., Kadapa and Salem. | - | - |
| Sericulture | Irrigated | Poor economic returns and beneficial exploitation of inter row spacing in mulberry under Paired row. | Assessment of turmeric intercropping in mulberry under paired row | 4 | T1- Mulberry sole crop  T2- Turmeric intercropping in mulberry under paired row | Leaf quality  Single plant leaf yield analysis on the day of harvest  Leaf quality  Single plant leaf yield analysis on the day of harvest | Un healthy and moderate succulent  0.256 kg  More succulent broad leaves smooth and low fiber content  0.316kg  1) Avg yield of turmeric  2)Avg yield of turmeric seeds Q/ha  **3)**Avg cocoon yield | 17.79  18.35  12.70  9.93  18.35 |  |  |  |
| Bengal gram | Irrigated | Physical Injuries and boils on hands while harvesting Bengal gram | Use of hand gloves | 5 | Hand gloves | Labour required (man days/acre)  Injuries/boils on hands | 6.0  No | Bare hands-5.6 man days  Use of hand gloves-6 man days | Injuries and boils on hands is not noticed with use of hand gloves as against bare hands | There is no grip while using hand gloves | Hand gloves can be modified to have grip while harvesting |

**Contd..**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Technology Assessed | Source of Technology | Production | Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year) | Net Return (Profit) in Rs. / unit | BC Ratio |
| 13 | 14 | 15 | 16 | 17 | 18 |
| Technology option 1 (Farmer’s practice)  Farm saved seeds of TMV-2, 45x10cms, Seeds 120kg/ha, 35:40:20NPK Kg/ha, | UASD | 15.98 | kg/ha | 39797/- | 1:4.50 |
| Technology option 2:  Certified variety ,GPBD-4, 30x 10cms,Seeds -150kg/ha,  Rhizobium-1.25kg/ha,PSB-1.25kg/ha,PK25.50:25:00Kg/ha, Gysum@500kg/ha, | UASD | 22.80 | kg/ha | 59763/- | 1:5.52 |
| Technology option 3:  Certified variety, ICGV-91114, 30x 10cms,Seeds -150kg/ha,  Rhizobium-1.25kg/ha, PSB-1.25kg/ha, NPK 25.50:25:00 Kg/ha, Gysum@500kg/ha, | UASD | 23.97 | kg/ha | 62652/- | 1:5.45 |
| **Onion** |  |  |  |  |  |
| TO-1 Indiscriminate use of pesticides | - | 14.47 | t/ha | 47394 | 2.20 |
| TO-2 Two Spray of Dimethoate @ 1.7 ml/l | UAS package Dharwad | 16.61 | t/ha | 60979 | 2.58 |
| TO-3 Maize as border crop,  *λ-cyhalothrin* 0.5ml/l (2 spray) | NRC, Onion & Garlic | 17.83 | t/ha | 67784 | 2.73 |
| **Bittergourd** |  |  |  |  |  |
| TO-1 Spray of insecticides melothion @ 2ml/lit immediately after incidence for two times | - | 11.23 | t/ha | 70032 | 2.31 |
| TO-2 Spray of bait containing of melothion @ 2 ml/lit + Jaggery 10g/lit at 5th, 8th and 11th WAS | UAS package Dharwad | 13.69 | t/ha | 102339 | 3.12 |
| TO-3 Keeping of food bait containing pots @ 25/ha (food bait composition – Banana pulp 1 kg + yeast 10g + melothion 10 ml + citric acid 3 g | IIVR Varanasi | 12.94 | t/ha | 94934 | 3.00 |
| Technology option 1 (Farmer’s practice) | UASD | 5.23 | t/ha | 101018/- | 1.63 |
| Technology option 2 | UASD | 6.24 | t/ha | 150170/- | 1.93 |
| Technology option 3 | TNAU | 6.64 | t/ha | 160200/- | 1.93 |
| Technology option 1 (Farmer’s practice):Mulberry sole crop under paired row | CSR&TI Mysore | 17.79 | Q/ha/year | Cocoon yield Q/ha/yr(control)=2,41,429/- | 1:4.1 |
| Technology option 2 :Turmeric intercropping in mulberry under paired row | UAS Dharwad | 18.35 | Q/ha/year | Cocoon yield /ha/yr(Treatment)=3,43,259/--  Turmeric Yield & seed Q/ha/yr=1,11,845/- | 1:5.4 |
| Technology option 1 (Farmer’s practice) | Harvesting with bare hands | - | - | - | - |
| Technology option 2 | Use of hand gloves | - | - | - | - |

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

details

**1.**

1 Title of Technology Assessed : Assessment of different Groundnut genotypes TMV-2, GPBD-4 and ICGV-91114 varieties in Groundnut

2 Problem Definition : Low yield 15-17qtl. /ha and Susceptible to tikka disease

3 Details of technologies selected for assessment:

T0- Farm saved seeds of TMV-2, 45x10cms, Seeds 120kg/ha, 35:40:20NPK Kg/ha,

T1- Certified variety ,GPBD-4, 30x 10cms,Seeds -150kg/ha,

Rhizobium-1.25kg/ha,PSB-1.25kg/ha,PK25.50:25:00Kg/ha, Gysum@500kg/ha,

T2- Certified variety, ICGV-91114, 30x 10cms,Seeds -150kg/ha,

Rhizobium-1.25kg/ha, PSB-1.25kg/ha, NPK 25.50:25:00 Kg/ha, Gysum@500kg/ha,

4 Source of technology: UAS Dharwad

5 Production system and thematic area: Cereal Based ,Medium black Rain fed Situation and Northern Transitional Zone

1. Performance of the Technology with performance indicators:

Plant height (cms),No. of Pods/ Plant, No of seeds / Pod, PDI (%),Tikka , 100 grain Wt. (g), Yield (qtl./ha) and Percent Increase yield

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

techniques

Plant height (cms) : 37.55

No. of Pods/ Plant : 95

No of seeds / Pod : 1.6

PDI (%) :53

100 grain Wt. (g) : 43.20

Yield (qtl./ha) :23.97

Percent Increase yield :50.00

8 Final recommendation for micro level situation: Recommended for Zone-VIII

9 Constraints identified and feedback for research: Low yield 15-16 qtl. /ha and Susceptible to tikka disease And Researcher may develop

Variety Resistant to Tikka disease And More Yield(40-45Qtls./ha

10 Process of farmers participation and their reaction: gram Sabha, Individual and Group meeting

**2.**

1 Title of Technology Assessed: Assessment of efficacy of new insecticide in the management of onion thrips

2 Problem Definition: Severe thrips infestation destruct foliage and it reduces the yield

3 Details of technologies selected for assessment:

TO-1: Indiscriminate use of pesticides

TO-2: Two Spray of Dimethoate @ 1.7 ml/l

TO-3: Maize as border crop,  *λ-cyhalothrin* 0.5ml/l (2 spray)

4 Source of technology: TO – 2: UAS package Dharwad, TO – 3: NRC, Onion & Garlic

5 Production system and thematic area: Rabi season-Irrigated-Black soil and Insect management (Thrips)

6 Performance of the Technology with performance indicators:

Avg. Population (No)

% pest reduction

Yield (t/ha)

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

**TO-1 TO-2 TO-3**

Avg. Population (No) Before spray: 19.21 25.61 22.94

After 3rd of spray: 10.06 7.08 4.24

% pest reduction 52.36 % 27.64 18.57

Yield (t/ha) 14.47 16.13 17.83

8 Final recommendation for micro level situation: This chemical has given good control of thrips and leaf damage in the *λ-cyhalothrin* –(0.5ml/l) sprayed field. Hence this chemical can be used to manage thrips effectively.

9 Constraints identified and feedback for research: Nil.

10 Process of farmers participation and their reaction: Farmers were struggling much in managing this pest and at the time of OFT implementation farmers were given more cooperation and they accepted this technology easily.

**3**.

1 Title of Technology Assessed: Assessment of efficacy of different baits in the melon fruit fly management in Bittergourd

2 Problem Definition: Fruit fly causes fruit rot hence marketable fruit yield reduces

3 Details of technologies selected for assessment:

TO-1: Spray of insecticides melothion @ 2ml/lit immediately after incidence for two times

TO-2: Spray of bait containing of melothion @ 2 ml/lit + Jaggery 10g/lit at 5th, 8th and 11th WAS

TO-3: Keeping of food bait containing pots @ 25/ha (food bait composition – Banana pulp 1 kg + yeast 10g

+ melothion 10 ml + citric acid 3 g

4 Source of technology: TO – 2: UAS package Dharwad, TO – 3: IIVR, Varanasi

5 Production system and thematic area: Rabi season-Irrigated-Red soil and Insect management (Melon fruit fly)

6 Performance of the Technology with performance indicators:

Per cent fruit infestation

Yield (t/ha)

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

**TO-1 TO-2 TO-3**

Per cent fruit infestation : 27.91 6.27 7.83

Yield (t/ha) : 11.23 13.69 12.94

8 Final recommendation for micro level situation: This food bait performed better and reduced fruit fly effectively. The technology can be used as one of the component in IPM module.

9 Constraints identified and feedback for research: Food bait dries in hot days hence frequent changing

(at least ones in 6-8 days) of bait is required.

10 Process of farmers participation and their reaction: Farmers were facing much problem in managing this pest and were in need of effective technology to manage this pest. So they have given very good cooperation in implementing this OPFT. They accepted this technology because of its ease in handling and its good performance.

**4.**

1 Title of Technology Assessed : Assessment of BSR-1 turmeric variety

2 Problem Definition : Low yield in turmeric is due to lower yielding ability of Salem and Kadapa varieties of turmeric.

3 Details of technologies selected for assessment: T0- Kadapa, T1-Salem, T2- BSR-1

4 Source of technology: TNAU

5 Production system and thematic area: Irrigated, Varietal assessment

6 Performance of the Technology with performance indicators: T0-2 points, T1-4 points, T2-5 points

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

Techniques: BSR-1 is is higher yielding than existing varieties viz., Kadapa and Salem.

8 Final recommendation for micro level situation: BSR-1 variety of turmeric is suitable for semi arid region with 26.96% higher yield than

Kadapa and 6.41% than Salem.

9 Constraints identified and feedback for research: Longer duration of these varieties, Suitable short duration variety for the region to be

assessed/ released

10 Process of farmers participation and their reaction: Field visit, group meeting, Convention

BSR-1 is is higher yielding than existing varieties viz., Kadapa and Salem.

**5.**

1 Title of Technology Assessed: Assessment of turmeric intercropping in mulberry under paired row.

2 Problem Definition:

a) Poor economic returns under mulberry sole crop.

b) Poor soil fertility

c) Increased expenditure incurred for nutrient and water management.

d) Decreased leaf yield and quality.

e) Decreased cocoons productivity.

3 Details of technologies selected for assessment: T1- Farmers practice, Economic returns under mulberry paired row (5|+3|X2|) sole crop.

T2-Assessment of economic returns through turmeric inter cropping in mulberry

under paired row system.

4 Source of technology: UAS Dharwad

5 Production system and thematic area: Inter cropping, red soil, irrigated situation, Northern dry zone.

6 Performance of the Technology with performance indicators: Leaf quality and Single plant leaf yield analysis on the day of harvest

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

techniques Leaf quality- More succulent, broad leaves smooth and low fiber content

Single plant leaf yield analysis on the day of harvest-0.316kg

8 Final recommendation for micro level situation: Recommend for Zone 3

9 Constraints identified and feedback for research; Researchers should develop Shade loving and high yielding turmeric variety

under intercropping in mulberry.

10 Process of farmers participation and their reaction: Individual contact and group meeting, more net income with intercropping.

**6.**

1 Title of Technology Assessed: Use of hand gloves

2 Problem Definition: Physical Injuries and boils on hands while harvesting Bengal gram

3 Details of technologies selected for assessment: Use of hand gloves

4 Source of technology: AICRP (Textile and Clothing), R H Sc, UAS, Dharwad

5 Production system and thematic area: Pulse based Drudgery reduction

6 Performance of the Technology with performance indicators:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Treatment** | **No. of farmers** | **Labour required (man days/acre)** | **Injuries/boils on hands** | **Cost of cash inputs (Rs)** |
| ***Technological option 1:*** Harvesting with bare hands | 5 | **5.6** | Yes | - |
| ***Technological option 2:*** Use of hand gloves | 5 | 6.0 | No | 30/- |

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

Techniques: 1) Injuries 2) Labour required

8 Final recommendation for micro level situation: Zone III

9 Constraints identified and feedback for research: no grip while using hand gloves.

Modification of hand gloves to suite the harvesting process

10 Process of farmers participation and their reaction: group meetings and individual contacts

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

**Results of On Farm Trial**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop/ enterprise | Farming situation | Problem definition | Title of OFT | No. of  trials | Technology refined | Parameters of refined t | Data on the parameter | Results of refinement | Feedback from the farmer | Details of refinement done |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|  |  |  |  |  |  |  |  |  |  |  |

**Contd..**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Technology Refined | Source of Technology for Technology Option1 /  Justification for modification of assessed  Technology Option 1 | Production | Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year) | Net Return (Profit) in Rs. / unit | BC Ratio |
| 13 |  | 14 | 15 | 16 | 17 |
| Technology Option 1 (best performing Technology Option in assessment) |  |  |  |  |  |
| Technology Option 2 (Modification over Technology Option 1) |  |  |  |  |  |
| Technology Option 3 (Another Modification over Technology Option 1) |  |  |  |  |  |

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

1. Title of Technology refined

2 Problem Definition

3 Details of technologies selected for refinement

4 Source of technology

5 Production system and thematic area

6 Performance of the Technology with performance indicators

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

8 Final recommendation for micro level situation

9 Constraints identified and feedback for research

10 Process of farmers participation and their reaction

**PART V - FRONTLINE DEMONSTRATIONS**

**5.A. Summary of FLDs implemented during 2011-12**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Category** | **Farming**  **Situation** | **Season**  **and**  **Year** | **Crop** | **Variety/ breed** | **Hybrid** | **Thematic area** | **Technology Demonstrated** | **Area (ha)** | | **No. of farmers/**  **demonstration** | | | **Reasons for shortfall in achievement** |
| **Proposed** | **Actual** | **SC /ST** | **Others** | **Total** |  |
| Oilseeds | | | | | | | | | | | | | | |
| 1 | Soybean | Irrigated | Kharif | Soybean | JS-335 | - | INM | Seeds (JS 335) -75kg/ ha, Rhizobium -1.25kg/ha, PSB-1.25kg/ha and Sulphur-20kg/ha | 10.0 | 10.0 | 06 | 19 | 25 | - |
| 2 | Groundnut | Irrigated | Kharif | Groundnut | GSPD-4 | - | Varietal with INM | Seeds:125 Kgs/ha,  Tricoderma:0.5 Kgs/ha,Rhizobium:1.25kgs/ha,PSB : 1.25 kgs/ha and  Gypsum:500kgs/ha | 5.0 | 5.0 | 03 | 09 | 12 | - |
| 3 | Under Progress | Irrigated | R/S-2011-12 | Groundnut | TAG-24 | - | Varietal with INM | Seeds:150 kgs/ha,  Trichoderma : 0.5 kgs/ha ,  Rhizobium :1.25 kgs/h a,  PSB :1.25 kgs/ha | 5.0 | 5.0 | 10 | 03 | 13 | - |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Pulses |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | Green gram | Rain fed | Kharif | Green gram | Shina  mung | - | ICM in Greengram | Seeds-10kg/ac Trichoderma-0.2 kg/ac Rhizobium-0.2 kg/ac PSB-0.2 kg/ac Vermicompost-200kg/ac Stomp-0.5kg a i/ac Znso4-8kg/ac Quinolphos-0.5 lit/ac Bavistin-0.5 kg/ac | 8.0 | 8.0 | 03 | 17 | 20 | - |
| 5 | Redgram | Rain fed | Kharif | Redgram | TS-3R | - | ICM in Redgram | Seeds-6kg /ac,  Tricoderma-200g /ac,  Rhizobium-200g /ac,  Sulpure-8kg /ac,  HNPV-100LE /ac,  Indoxacarb-200ml/ac ,Endosulphan-500ml/ac,  Pheromone traps-2 Nos./ac,  lures 6 Nos./ac and Vermicompost-400ka/ac | 10.0 | 10.0 | 04 | 21 | 25 | - |
| 6 | Bengal  gram | Irrigated | Rabi | Bengal  gram | JG-11 | - | ICM in Bengal  gram | Seeds-32kg/ac,  Rhizobium-600gm/ac,  Tricoderma-200gm/ac,  Indoxacarb 0.2lit. /ac,  NPV-100LE/ac,  Pheromone traps -2Nos,  Lures-3Nos  and FYM-2tons/ac | 8.0 | 8.0 | 03 | 17 | 20 | - |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Cereals |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | Maize | Irrigated | R/S-2010-11 | Maize | - | Arjun-434042 | ICM | Seed rate -21Kg/ha,  Fertilizer- 150:75:37.5 (Kg/ha),Soil application of  Micronutrients- FeSo4-25 and  ZnSo4-25  (kg/ha) , Hexaconozole-625ml./ha and  Mancozeb – 3 kg | 5.0 | 5.0 | 9 | 01 | 10 | - |
| 8 | Maize | Irrigated | R/S-2011-12 | Maize | - | M900 | Zinc and Iron Management | M 900 seeds:18.75kgs/ha and Soil application of Zn & Fe @ 25 kg/ha | 5.0 | 5.0 | 11 | 01 | 12 | - |
|  | Millets |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Vegetables |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | Onion | Irrigated | Rabi 2011 | Onion | Nasik red | - | Integrated Disease Management | Disease management with the use of more effective new generation fungicide in onion | 8 | 8 | - | 20 | 20 | - |
|  | Flowers |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Ornamental |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fruit |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Commercial |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Sugarcane | Irrigated | R/S-2010-11 | Sugarcane | - | CO-8011 | Zinc and Iron Management | Soil application ofFeSo4:25kg/ha, and ZnSo4:25kg/ha,  Foliar spray with FeSo4:3.75kg/ha, and ZnSo4:3.75kg/ha, | 4.0 | 4.0 | 08 | 02 | 10 | - |
| 11 | Under Progress | Irrigated | R/S-2011-12 | Sugarcane | - | SNK-632 | Zinc and Iron Manage  ment | Under Progress- | | | | | | |
| 12 | Sugarcane | Irrigated | Rabi 2011 | Sugarcane | CO86032 | - | Integrated Insect Manage  ment | To show the effectiveness of  *Metarrizium anisopliae* in combination with phorate in sugarcane | 5 | 5 | - | 12 | 12 | - |
|  | Medicinal and aromatic |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fodder |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | Fodder | Irrigated | Kharif and Rabi 2011-2012 | Guinea (reverse dale), Signal, Rhodes and Lucerne | Guinea reverse dale, Rhodes local, Signal Keladi and Anand-2 | - | Fodder crops | Popularization of fodder varieties | 2 | 2 | 3 | 7 | 10 | - |
|  | Plantation |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fibre |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Dairy |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Poultry |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Rabbitary |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Piggery |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Sheep and goat |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Duckery |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Common carps |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Mussels |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Ornamental fishes |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Oyster mushroom |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Button mushroom |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Vermicompost |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | Sericulture | Irrigated | Rabi 2010 11 | Silkworm breed | CSR  (2x4) | - | Demonstration of silkworm breed | CSR(2x4) silkworm breed | 500DFLs | 500DFLs | - | 5 | 5 | - |
| 15 | Sericulture | Irrigated | Rabi 2010 11 | Silkworm | Incubation frame | - | Promotion of incubation frame for loose eggs | Incubation frame | 10 | 10 | - | 10 | 10 | - |
| 16 | Sericulture | Irrigated | Rabi 2010 11 | Silkworm | Juvenile hormone | - | Promotion of Juvenile hormone for uniform maturation of silkworms. | Juvenile hormone | 50ml | 50ml | - | 10 | 10 | - |
|  | Apiculture |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Implements |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | Implements | Irrigated | Kharif 2011 | Green gram | China mung | - | Drudgery reduction | Hand hoe weeder | 0.6 | 0.6 | 4 | 11 | 15 | - |
| 18 | Implements | Irrigated | Rabi 2011 | Groundnut | Dh-86 | - | Drudgery reduction | Groundnut decorticator | - | - | 2 | 8 | 10 | - |
| 19 | Implements | Rain fed | Summer 2012 | Tamarind | Local | - | Drudgery reduction | Tamarind dehuller-cum-deseeder | - | - | 5 | - | 5 | - |
|  | Others (specify) |  |  |  |  |  |  |  |  |  |  |  |  |  |

**5.A. 1. Soil fertility status of FLDs plots during 2011-12**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Category** | **Farming**  **Situation** | **Season**  **and**  **Year** | **Crop** | **Variety/ breed** | **Hyb**  **rid** | **Thematic area** | **Technology Demonstrated** | **Season and year** | **Status of soil** | | | **Previous crop grown** |
| **N** | **P** | **K** |
|  | Oilseeds |  |  |  |  |  |  |  |  |  |  |  |  |
| 01 | Soybean | Irrigated | Kharif &  2011-12 | Soybean | JS-335 | - | Varietal  ( JS-335) +INM | Seeds (JS 335) -75kg/ ha, Rhizobium -1.25kg/ha, PSB-1.25kg/ha and Sulphur-20kg/ha | Kharif & 2011-12 | 218.0 | 17.10 | 187.0 | Maize, Sugarcane, Bengalgram Sunflower &  Wheat |
| 02 | Groundnut | Irrigated | Kharif & 2011-12 | Groundnut | GPBD-4 | - | Varietal with INM | Seeds:125 kgs/ha,  Tricoderma:0.5 kgs/ha , Rhizobium:1.25kgs/ha, PSB : 1.25 kgs/ha and  Gypsum:500kgs/ ha | Kharif & 2011-12 | 207 | 17.20 | 231.0 | Maize, wheat, Bengalgram Sugarcane and Vegetables |
| 03 | Groundnut | Irrigated | Rabi & 2011-12 | Groundnut | TAG-24 | - | Integrated crop management | Seeds:150 kgs/ha,  Trichoderma : 0.5 kgs/ha ,  Rhizobium :1.25 kgs/h a,  PSB :1.25 kgs/ha | Rabi & 2011-12 | 255.0 | 22.20 | 315.00 | Maize, Sugarcane and Vegetables |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Pulses |  |  |  |  |  |  |  |  |  |  |  |  |
| 04 | Green gram | Rain fed | Kharif & 2011-12 | Green gram | China mung | - | ICM | Seeds-10kg/ac Trichoderma-0.2 kg/ac Rhizobium-0.2 kg/ac PSB-0.2 kg/ac Vermicompost-200kg/ac Stomp-0.5kg a i/ac Znso4-8kg/ac Quinolphos-0.5 lit/ac Bavistin-0.5 kg/ac | Kharif & 2011-12 | 178.01 | 18.00 | 260.00 | Jowar Bengal gram & wheat |
| 05 | Redgram | Rain fed | Kharif & 2011-12 | Redgram | TS-3R | - | ICM | Seeds-6kg /ac,  Tricoderma-200g /ac,  Rhizobium-200g /ac,  Sulpure-8kg /ac,  HNPV-100LE /ac,  Indoxacarb-200ml/ac ,Endosulphan-500ml/ac,  Pheromone traps-2 Nos./ac,  lures 6 Nos./ac and Vermicompost-400ka/ac | Kharif & 2011-12 | 217.00 | 15.75 | 257.00 | Jowar,  Maize,  Bajra,  Groundnut,  Sunflower,  Pigeon pea &  Wheat |
| 06 | Bengal gram | Irrigated | Rabi & 2011-12 | Bengal gram | JG-11 | - | ICM | Seeds-32kg/ac,  Rhizobium-600gm/ac,  Tricoderma-200gm/ac,  Indoxacarb 0.2lit. /ac,  NPV-100LE/ac,  Pheromone traps -2Nos,  Lures-3Nos  and FYM-2tons/ac | Rabi & 2011-12 | 241.00 | 17.50 | 261.00 | Maize, Onion, groundnut Soybean & Jowar |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Cereals |  |  |  |  |  |  |  |  |  |  |  |  |
| 07 | Maize | Irrigated | R/S & 2010-11 | Maize | - | Arjun-434042 | ICM | Seed rate -21Kg/ha,  Fertilizer- 150:75:37.5 (Kg/ha),Soil application of  Micronutrients- FeSo4-25 and  ZnSo4-25  (kg/ha) , Hexaconozole-625ml./ha and  Mancozeb – 3 kg | R/S & 2010-11 | 215.00 | 15.90 | 256.00 | Maize and Wheat |
| 08 | Maize | Irrigated | R/S & 2011-12 | Maize | - | M900 | Zn and Fe Management | M 900  seeds:18.75kgs/ha and Soil application of Zn & Fe @ 25 kg/ha | R/S & 2011-12 | 245.00 | 17.25 | 274.00 | Maize Soybean |
|  | Millets |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Vegetables |  |  |  |  |  |  |  |  |  |  |  |  |
| 09 | Onion | Irrigated | Rabi 2011 | Onion | Nasik red | - | Integrated Disease Manage  ment | Disease management with the use of more effective new generation fungicide in onion | Rabi 2011 | 246 | 20 | 311 | Soybean |
|  | Flowers |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Ornamental |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fruit |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Spices and condiments |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Commercial |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Sugarcane | Irrigated | R/S & 2010-11 | Sugarcane | Co-8011 | - | Zn and Fe Manage  ment | Soil application ofFeSo4:25kg/ha, and ZnSo4:25kg/ha,  Foliar spray with FeSo4:3.75kg/ha, and ZnSo4:3.75kg/ha, | R/S & 2010-11 | 231.00 | 18.00 | 278.00 | Maize and sugarcane |
| 11 | Sugarcane | Irrigated | R/S & 2011-12 | Sugarcane | Co-8011and COC 86032 | - | Zn and Fe Manage  ment | Crop under progress | | | | | |
| 12 | Sugarcane | Irrigated | Rabi 2011 | Sugarcane | CO86032 | - | Integrated Insect Manage  ment | To show the effectiveness of  *Metarrizium anisopliae* in combination with phorate in sugarcane | Rabi 2011 | 253 | 21 | 306 | Wheat |
|  | Medicinal and aromatic |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fodder |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Plantation |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fibre |  |  |  |  |  |  |  |  |  |  |  |  |

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

**5.B.1. Crops**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Crop** | **Name of the technology demonstrated** | **Variety** | **Hybrid** | **Farming situation** | **No. of Demo.** | **Area**  **(ha)** | **Yield (q/ha)** | | | | **% Increase** | **\*Economics of demonstration (Rs./ha)** | | | | **\*Economics of check**  **(Rs./ha)** | | | |
| **Demo** | | | **Check** | **Gross**  **Cost** | **Gross**  **Return** | **Net Return** | **\*\***  **BCR** | **Gross**  **Cost** | **Gross**  **Return** | **Net Return** | **\*\***  **BCR** |
| **H** | **L** | **A** |
| Oilseeds |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Soybean | Seeds (JS 335) -75kg/ ha, Rhizobium -1.25kg/ha, PSB-1.25kg/ha and Sulphur-20kg/ha | JS-335 | - | Irrigated | 25 | 10.0 | 28.25 | 24.50 | 26.55 | 19.95 | 34.09 | 50445 | 14679 | 35766 | 1:3.4 | 10939 | 37905 | 26966 | 1:3.46 |
| Ground nut | Seeds:125 kgs/ha,  Tricoderma:0.5 kgs/ha,Rhizobium:1.25kgs/h a, PSB : 1.25 kgs/ha and  Gypsum:500kgs/ha | GSPD-4 | - | Irrigated | 12 | 5.0 | 24.50 | 22.25 | 23.56 | 18.06 | 30.47 | 12904 | 75392 | 62488 | 1:5.8 | 11386 | 57792 | 46406 | 1:5.0 |
| Ground nut | Seeds:150 kgs/ha,  Trichoderma : 0.5 kgs/ha  Rhizobium :1.25 kgs/h a,  PSB :1.25 kgs/ha | TAG-24 | - | Irrigated | 13 | 5.0 | Crop Under Progress | | | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Pulses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Green gram | Seeds-10kg/ac Trichoderma-0.2 kg/ac Rhizobium-0.2 kg/ac PSB-0.2 kg/ac Vermicompost-200kg/ac Stomp-0.5kg a i/ac Znso4-8kg/ac Quinolphos-0.5 lit/ac Bavistin-0.5 kg/ac | Chainamung |  | Rain fed | 20 | 8.0 | 8.13 | 5.63 | 6.6 | 4.8 | 37.50 | 12675 | 33000 | 20325 | 1:2.6 | 8760 | 24125 | 15365 | 1:2.75 |
| Redgram | Seeds-6kg /ac,  Tricoderma-200g /ac,  Rhizobium-200g /ac,  Sulpure-8kg /ac,  HNPV-100LE /ac,  Indoxacarb-200ml/ac ,Endosulphan-500ml/ac,  Pheromone traps-2 Nos./ac,  lures 6 Nos./ac and Vermicompost-400ka/ac | TS-3R |  | Rain fed | 25 | 10.0 | 11.88 | 9.75 | 10.70 | 7.18 | 49.15 | 15160 | 42800 | 27640 | 1:2.82 | 10360 | 28720 | 18360 | 1;2.77 |
| Bengal gram | Seeds-32kg/ac,  Rhizobium-600gm/ac,  Tricoderma-200gm/ac,  Indoxacarb 0.2lit. /ac,  NPV-100LE/ac,  Pheromone traps -2Nos,  Lures-3Nos  and FYM-2tons/ac | JG-11 | - | Irrigated | 20 | 8.0 | 20.63 | 15.63 | 18.03 | 13.65 | 32.05 | 14385 | 68495 | 54110 | 1:4.8 | 10173 | 51870 | 41698 | 1:5.1 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cereals |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Maize | Seed rate -21Kg/ha,  Fertilizer- 150:75:37.5 (Kg/ha),Soil application of  Micronutrients- FeSo4-25 and  ZnSo4-25  (kg/ha) , Hexaconozole-625ml./ha and  Mancozeb -3 kg | - | Arjun-434042 | Irrigated | 10 | 5.0 | 72.00 | 67.10 | 68.93 | 58.86 | 17.11 | 12402 | 60658 | 48256 | 1:4.89 | 10349 | 51797 | 41448 | 1:5.00 |
| Maize | M 900  seeds:18.75kgs/ha and Soil application of Zn & Fe @ 25 kg/ha | - | M900 | Irrigated | 12 | 5.0 | 68.00 | 62.50 | 66.22 | 59.77 | 10.79 | 13264 | 62909 | 49645 | 1:4.74 | 9087 | 56782 | 47695 | 1:6.25 |
| Millets |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vegetables |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Onion | Disease management with the use of more effective new generation fungicide in onion | Nasik red | - | Irrigated | 20 | 8 | 16.21 | 12.94 | 14.62 | 11.97 | 22.13 | 46253 | 87720 | 41467 | 1:1.89 | 42371 | 71820 | 29449 | 1:1.69 |
| Flowers |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ornamental |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fruit |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Spices and condiments |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Commercial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sugarcane | Soil application ofFeSo4:25kg/ha, and ZnSo4:25kg/ha,  Foliar spray with FeSo4:3.75kg/ha, and ZnSo4:3.75kg/ha, | CO-8011 | - | Irrigated | 10 | 4.0 | 133.75 ton | 127.10 ton | 130.47 ton | 112.90 ton | 15.56 | 61295 | 260940 | 199645 | 1:4.26 | 69052 | 225800 | 156748 | 1:3.27 |
| Sugarcane | Crop Under Progress | | | | | | | | | | | | | | | | | | |
| Sugarcane | To show the effectiveness of  *Metarrizium anisopliae* in combination with phorate in sugarcane | CO 86032 | - | Irrigated | 12 | 5 | 135.4 | 91.24 | 112.37 | 86.21 | 30.34 | 48526 | 224740 | 176214 | 1:4.63 | 47564 | 172420 | 124856 | 1:3.62 |
| Fibre crops like cotton |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Medicinal and aromatic |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fodder |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fodder | Introduction of Grass and Leguminous Fodder Varieties | Guinea (reverse dale) | - | Irrigated | 10 | 0.5 | 6.25 | 5.5 | 5.97 | 3.82 | 56.69 | 25019 | 59500 | 34481 | 1:2.37 | 21399 | 38000 | 16601 | 1:1.77 |
| Signal | - |  |  | 0.5 | 5.25 | 4.45 | 4.93 |  | 29.39 | 26151 | 49500 | 23349 | 1:1.89 | - | - | - | - |
| Rhodes |  |  |  | 0.5 | 5.25 | 4.55 | 4.97 |  | 30.44 | 34297 | 49700 | 15403 | 1:1.44 |  |  |  |  |
| Lucerne | - |  |  | 0.5 | 3.8 | 3.6 | 3.69 | 3.13 | 17.89 | 14876 | 44280 | 29404 | 1:2.97 | 14336 | 37560 | 23224 | 1:2.61 |
| Plantation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fibre |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

\* 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** |
| **Soybean** |  |  |
| Plant height (cm) | 80 | **91** |
| No. of Pods/hill | 167 | 87 |
| No. of seeds/pod | 2.6 | 2.4 |
| No. of Nodules/hill | 132 | 97 |
| 100 grain weight (g) | 18.5 | 16.7 |
| **Groundnut** |  |  |
| No. of Pods/hill | 62 | 55 |
| No. of seeds/pod | 2 | 1-2 |
| No. of Nodules/hill | 85 | 71 |
| 100 grain weight (g) | 22 | 19 |
| **Groundnut** |  |  |
| No. of Pods/hill | Crop under progress | |
| No. of seeds/pod |
| No. of Nodules/hill |
| 100 grain weight (g) |
| **Green gram** |  |  |
| Plant height (cm) | 49 | 51 |
| No of pods /hill | 48 | 45 |
| No. of seeds/pod | 10 | 6-8 |
| 1000 grain weight (g) | 32.5 | 30.15 |
| **Red gram** |  |  |
| Plant height (cm) | 185 | 165 |
| No of pods /hill | 295 | 230 |
| No. of seeds/pod | 5 | 4 |
| 100 grain weight (g) | 7.7 | 6.25 |
| **Bengal gram** |  |  |
| No. of seeds/pod | 1-2 | 1-2 |
| No. of Nodules/hill | 59 | 48 |
| 100 grain weight (g) | 21.5 | 17.9 |
| **Sugarcane** |  |  |
| Single cane weight (Kgs) | 1.25 | 1.05 |
| Yield ton/ha | 132 | 115 |
| **Maize** |  |  |
| Plant height (cm) | 166 | 160 |
| No. of seeds/cob | 720 | 560 |
| No. of rows/ cob | 16 | 14 |
| 100 grain weight (g) | 30.5 | 28.5 |
| **Maize** |  |  |
| Plant height (cm) | 165 | 157 |
| No. of seeds/cob | 690 | 546 |
| No. of rows/ cob | 16 | 14 |
| 100 grain weight (g) | 29.0 | 27.0 |
| Onion |  |  |
| Purple blotch incidence | 8.13 % | 21.36 % |
| Yield q/ha | 14.62 | 11.97 |
| Sugarcane |  |  |
| Per cent clump infestation | 9.94% | 34.27% |
| Yield t/ha | 112.37 | 86.21 |

5.B.2. Livestock and related enterprises

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Type of livestock | Name of the technology demonstrated | Breed | No. of Demo | No.  of Units | Yield (q/ha) | | | | % Increase | \*Economics of demonstration Rs./unit) | | | | \*Economics of check  (Rs./unit) | | | |
| Demo | | | Check if any | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
| H | L | A |  |
| Dairy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Poultry |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rabbitary |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Piggery |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sheep and goat |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Duckery |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

\*\* BCR= GROSS RETURN/GROSS COST

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

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

5.B.3. Fisheries

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

\*\* BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

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

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

5.B.4. Other enterprises

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Enterprise** | **Name of the technology demonstrated** | **Variety/ species** | **No. of Demo** | **Units/ Area {m2}** | **Yield (q/ha)** | | | | **% Increase** | **\*Economics of demonstration (Rs./unit) or (Rs./m2)** | | | | **\*Economics of check**  **(Rs./unit) or (Rs./m2)** | | | |
| **Demo** | | | **Check if any** | **Gross**  **Cost** | **Gross**  **Return** | **Net Return** | **\*\***  **BCR** | **Gross**  **Cost** | **Gross**  **Return** | **Net Return** | **\*\***  **BCR** |
| **H** | **L** | **A** |
| Oyster mushroom |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Button mushroom |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vermicompost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sericulture |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sericulture | Improved quality breed | Silkworm breed CSR (2X4) | 5 | 500DFLs | 75.6 | 63.2 | 67.88 | 61.44 | 10.5 | 4185/- | 21382/- | 17197/- | 1:5 | 4185/- | 11059/- | 6874/- | 1:2.6 |
| Sericulture | Incubation frame | Incubation frame | 10 | Number | Result yet to submit | | | | | | | | | | | | |
| Sericulture | Juvenile hormone | Juvenile hormone | 10 | Number | Result yet to submit | | | | | | | | | | | | |
| Apiculture |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

\*\* 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** |
| Randitta | 5.7 | 7.6 |
| Silkworm mortality | 6.0 | 19.0 |
| Egg hatching percent | 88 | 72 |

5.B.5. Farm implements and machinery

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Name of the implement** | **Cost of the implement in Rs.** | **Name of the technology demonstrated** | **No. of Demo** | **Area covered under demo**  **in ha** | **Labour requirement in Man days** | | **% save** | **Savings in labour Rs./ha** | **\*Economics of demonstration (Rs./ha)** | | | | **\*Economics of check**  **(Rs./ha)** | | | |
| **Demo** | **Check** | **Gross cost** | **Gross**  **Return** | **Net Return** | **\*\***  **BCR** | **Gross**  **Cost** | **Gross**  **Return** | **Net Return** | **\*\***  **BCR** |
| Tamarind dehuller-cum-deseeder | 30,000/- | Tamarind dehuller-cum-deseeder | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Groundnut decorticator | 4500/- | Groundnut decorticator | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hand hoe weeder with three tynes | 700/- | Hand hoe weeder with three tynes | 15 | 0.6 | 8.93 | 31.06 | 72 | - | - | - | - | - | - | - | - | - |

\*\* 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** |
| Average tamarind dehulled and deseeded (qtl)/day | Dehulling-49.84  Deseeding-not efficient | Dehulling-11.68  Deseeding-1.36 |
| Average groundnut shelled-/day | 609.6 kg | 36.4 kg |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No.** | **Activity** | **No. of activities organised** | **Number of participants** | **Remarks** |
| 1 | Field days | 06 | 359 | Greengram, Redgram, Bengalgram, Silkworm disease management. Moulting worms management |
| 2 | Farmers Training | 27 | 419 | Both ON & OFF Trainings |
| 3 | Media coverage | TV-Programme-03 | - | Sugarcane, Redgram and wheat |
| 4 | Advisory service | 01 | 06 | To implement and monitor FLD |
| 5 | Group meetings | 10 | 54 |  |
| 6 | Method demonstration | 04 | 82 |  |
| 7 | Off campus training | 10 | 115 |  |
| 8 | Farmers conveyance | 01 | 18 |  |

**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**  **Cost** | **Gross**  **Return** | **Net Return** | **\*\***  **BCR** | **Gross**  **Cost** | **Gross**  **Return** | **Net Return** | **\*\***  **BCR** |
| H | L | A |
| **Cereals** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bajra |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Maize | Seed rate -21Kg/ha,  Fertilizer- 150:75:37.5 (Kg/ha),Soil application of  Micronutrients- FeSo4-25 and  ZnSo4-25  (kg/ha) , Hexaconozole-625ml./ha and  Mancozeb – 3 kg | Arjun-434042 | 10 | 5.0 | 72.00 | 67.10 | 68.93 | 58.86 | 17.11 | 12402 | 60658 | 48256 | 1:4.89 | 10349 | 51797 | 41448 | 1:5.00 |
| Maize | M 900  seeds:18.75kgs/ha and Soil application of Zn & Fe @ 25 kg/ha | M900 | 12 | 5.0 | 68.00 | 62.50 | 66.22 | 59.77 | 10.79 | 13264 | 62909 | 49645 | 1:4.74 | 9087 | 56782 | 47695 | 1:6.25 |
| Paddy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sorghum |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wheat |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Oilseeds** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Castor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mustard |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Safflower |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sesame |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sunflower |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Groundnut |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Soybean |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pulses** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Greengram |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Blackgram |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bengalgram |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Redgram |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Vegetable crops** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bottle gourd |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Capsicum |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Onion | Disease management with the use of more effective new generation fungicide in onion | Nasik red | 20 | 8 | 16.21 | 12.94 | 14.62 | 11.97 | 22.13 | 46253 | 87720 | 41467 | 1:1.89 | 42371 | 71820 | 29449 | 1:1.69 |
| Cucumber |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tomato |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Brinjal |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Okra |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Onion |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Potato |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Field bean |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Commercial crops** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sugarcane | To show the effectiveness of  *Metarrizium anisopliae* in combination with phorate in sugarcane | CO 86032 | 12 | 5 | 135.4 | 91.24 | 112.37 | 86.21 | 30.34 | 48526 | 224740 | 176214 | 1:4.63 | 47564 | 172420 | 124856 | 1:3.62 |  |
| Coconut |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fodder crops |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Maize (Fodder) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sorghum (Fodder) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

H-High L-Low, A-Average

**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 | 1 | 10 | 2 | 12 | 2 | 1 | 3 | 12 | 3 | 15 |
| Resource Conservation Technologies |  |  |  |  |  |  |  |  |  |  |
| Cropping Systems |  |  |  |  |  |  |  |  |  |  |
| Crop Diversification |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming |  |  |  |  |  |  |  |  |  |  |
| Micro Irrigation/Irrigation |  |  |  |  |  |  |  |  |  |  |
| Seed production |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Integrated Crop Management | 3 | 29 | 1 | 30 | 10 | 2 | 12 | 36 | 6 | 42 |
| Soil and Water Conservation |  |  |  |  |  |  |  |  |  |  |
| Integrated Nutrient Management | 2 | 18 | 2 | 20 | 2 | 1 | 3 | 20 | 3 | 23 |
| Integrated water management | 1 | 10 | 1 | 11 | 2 | 0 | 2 | 11 | 2 | 13 |
| Micro nutrient deficiency in crops | 1 | 9 | 1 | 10 | 2 | 1 | 3 | 11 | 3 | 14 |
| Soil and water testing | 1 | 10 | 1 | 11 | 2 | 0 | 2 | 12 | 3 | 15 |
| Production of organic inputs |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Horticulture** |  |  |  |  |  |  |  |  |  |  |
| **a) Vegetable Crops** |  |  |  |  |  |  |  |  |  |  |
| Production of low value and high volume crop |  |  |  |  |  |  |  |  |  |  |
| Off-season vegetables |  |  |  |  |  |  |  |  |  |  |
| Nursery raising |  |  |  |  |  |  |  |  |  |  |
| Exotic vegetables |  |  |  |  |  |  |  |  |  |  |
| Export potential vegetables |  |  |  |  |  |  |  |  |  |  |
| Grading and standardization |  |  |  |  |  |  |  |  |  |  |
| Protective cultivation |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **b) Fruits** |  |  |  |  |  |  |  |  |  |  |
| Training and Pruning |  |  |  |  |  |  |  |  |  |  |
| Layout and Management of Orchards |  |  |  |  |  |  |  |  |  |  |
| Cultivation of Fruit |  |  |  |  |  |  |  |  |  |  |
| Management of young plants/orchards |  |  |  |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  |  |  |  |  |  |  |  |  |
| Export potential fruits |  |  |  |  |  |  |  |  |  |  |
| Micro irrigation systems of orchards |  |  |  |  |  |  |  |  |  |  |
| Plant propagation techniques |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **c) Ornamental Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery Management |  |  |  |  |  |  |  |  |  |  |
| Management of potted plants |  |  |  |  |  |  |  |  |  |  |
| Export potential of ornamental plants |  |  |  |  |  |  |  |  |  |  |
| Propagation techniques of Ornamental Plants |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **d) Plantation crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **e) Tuber crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **f) Spices** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **g) Medicinal and Aromatic Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Production and management technology |  |  |  |  |  |  |  |  |  |  |
| Post harvest technology and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **h)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 | 1 |  | 43 | 43 |  | 5 | 5 |  | 48 | 48 |
| 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 | 1 | 25 | 2 | 0 | 0 | 0 | 0 | 25 | 2 | 27 |
| Integrated Disease Management | 1 | 23 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 23 |
| Bio-control of pests and diseases |  |  |  |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Fisheries** |  |  |  |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing |  |  |  |  |  |  |  |  |  |  |
| Composite fish culture |  |  |  |  |  |  |  |  |  |  |
| Hatchery management and culture of freshwater prawn |  |  |  |  |  |  |  |  |  |  |
| Breeding and culture of ornamental fishes |  |  |  |  |  |  |  |  |  |  |
| Portable plastic carp hatchery |  |  |  |  |  |  |  |  |  |  |
| Pen culture of fish and prawn |  |  |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  |  |  |  |  |  |
| Edible oyster farming |  |  |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  |  |  |  |  |  |
| Fish processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Production of Inputs at site** |  |  |  |  |  |  |  |  |  |  |
| Seed Production |  |  |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  |  |  |  |  |  |
| Bio-agents production |  |  |  |  |  |  |  |  |  |  |
| Bio-pesticides production |  |  |  |  |  |  |  |  |  |  |
| Bio-fertilizer production |  |  |  |  |  |  |  |  |  |  |
| Vermi-compost production |  |  |  |  |  |  |  |  |  |  |
| Organic manures production |  |  |  |  |  |  |  |  |  |  |
| Production of fry and fingerlings |  |  |  |  |  |  |  |  |  |  |
| Production of Bee-colonies and wax sheets |  |  |  |  |  |  |  |  |  |  |
| Small tools and implements |  |  |  |  |  |  |  |  |  |  |
| Production of livestock feed and fodder |  |  |  |  |  |  |  |  |  |  |
| Production of Fish feed |  |  |  |  |  |  |  |  |  |  |
| Mushroom production |  |  |  |  |  |  |  |  |  |  |
| Apiculture |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Capacity Building and Group Dynamics** |  |  |  |  |  |  |  |  |  |  |
| Leadership development |  |  |  |  |  |  |  |  |  |  |
| Group dynamics |  |  |  |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  |  |  |  |  |  |  |  |  |
| Mobilization of social capital |  |  |  |  |  |  |  |  |  |  |
| Entrepreneurial development of farmers/youths |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Agro-forestry** |  |  |  |  |  |  |  |  |  |  |
| Production technologies |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming Systems |  |  |  |  |  |  |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **TOTAL** | **12** | **134** | **53** | **137** | **20** | **10** | **30** | **150** | **70** | **220** |

**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 | 1 | 11 | 1 | 12 | 3 | 2 | 5 | 14 | 3 | 17 |
| Resource Conservation Technologies |  |  |  |  |  |  |  |  |  |  |
| Cropping Systems |  |  |  |  |  |  |  |  |  |  |
| Crop Diversification |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming |  |  |  |  |  |  |  |  |  |  |
| Micro Irrigation/Irrigation |  |  |  |  |  |  |  |  |  |  |
| Seed production |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Integrated Crop Management | 2 | 16 | 4 | 20 | 6 | 0 | 3 | 22 | 4 | 26 |
| Soil and Water Conservation |  |  |  |  |  |  |  |  |  |  |
| Integrated Nutrient Management | 4 | 37 | 8 | 45 | 8 | 1 | 9 | 45 | 9 | 54 |
| Production of organic inputs |  |  |  |  |  |  |  |  |  |  |
| Pest and disease management in soybean | 2 | 20 | 5 | 26 | 6 | 2 | 8 | 26 | 7 | 33 |
| Post Harvest Technology | 1 | 10 | 2 | 12 | 3 | 2 | 5 | 13 | 4 | 17 |
| **Horticulture** |  |  |  |  |  |  |  |  |  |  |
| **a) Vegetable Crops** |  |  |  |  |  |  |  |  |  |  |
| Production of low value and high volume crop | 3 | 37 | 28 | 65 | 11 | 5 | 16 | 48 | 33 | 81 |
| Off-season vegetables |  |  |  |  |  |  |  |  |  |  |
| Nursery raising |  |  |  |  |  |  |  |  |  |  |
| Exotic vegetables |  |  |  |  |  |  |  |  |  |  |
| Export potential vegetables |  |  |  |  |  |  |  |  |  |  |
| Grading and standardization |  |  |  |  |  |  |  |  |  |  |
| Protective cultivation |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **b) Fruits** |  |  |  |  |  |  |  |  |  |  |
| Training and Pruning |  |  |  |  |  |  |  |  |  |  |
| Layout and Management of Orchards |  |  |  |  |  |  |  |  |  |  |
| Cultivation of Fruit |  |  |  |  |  |  |  |  |  |  |
| Management of young plants/orchards |  |  |  |  |  |  |  |  |  |  |
| Rejuvenation of old orchards | 2 | - | - | - | 65 | 2 | 67 | 65 | 2 | 67 |
| Export potential fruits | 2 | - | - | - | 63 | 1 | 64 | 63 | 1 | 64 |
| 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 | 3 | 46 | 5 | 51 | 4 | 1 | 5 | 50 | 6 | 56 |
| 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 | 5 | 65 | 4 | 69 | 8 | 1 | 9 | 73 | 5 | 78 |
| Production and use of organic inputs | 4 | 57 | 3 | 60 | 5 | 1 | 6 | 62 | 4 | 66 |
| 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 |  |  |  |  |  |  |  |  |  |  |
| Importance of grass and leguminous fodder varieties | 2 | 32 | - | 32 | - | - | - | 32 |  | 32 |
| **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 |  |  |  |  |  |  |  |  |  |  |
| Value addition and nutritional recipes on Bengal gram | 1 | 13 | 1 | - | - | - | - | 13 | 1 | 14 |
| Value addition and nutritional recipes of maize | 1 | 57 | 259 | - | - | - | - | 57 | 259 | 316 |
| Groundnut decorticator for drudgery reduction | 2 | 12 | 20 | - | - | - | - | 12 | 20 | 32 |
| Health and hygiene | 2 | - | - | - | - | 80 | 80 | - | 80 | 80 |
| Poshak preparation | 1 | - | 30 | 30 | - | 8 | 8 | - | 38 | 38 |
| Use of hand gloves | 1 | 13 | - | 13 | 1 | - | 1 | 14 | - | 14 |
| **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 | 92 | 0 | 92 | 9 | 0 | 9 | 101 | 0 | 101 |
| Integrated Disease Management | 3 | 56 | 0 | 56 | 4 | 0 | 4 | 60 | 0 | 60 |
| 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 |  |  |  |  |  |  |  |  |  |  |
| Sericulture |  |  |  |  |  |  |  |  |  |  |
| Improved silkworm rearing | 8 | 104 | 25 | 129 | 5 | 4 | 9 | 109 | 109 | 29 |
| Maintenance of humidity and temperature in rearing house | 2 | 22 | 4 | 26 | 1 | - | 1 | 23 | 23 | 4 |
| Importance of soil and water testing | 11 | 35 | 4 | 39 | 103 | 10 | 113 | 138 | 138 | 14 |
| Mulberry cultivation practices and inter cropping | 3 | 35 | 8 | 43 | - | - | - | 35 | 35 | 8 |
| Importance of Incubation frame for loose DFLs | 3 | 25 | 5 | 30 | - | - | - | 25 | 25 | 5 |
| **Production of Inputs at site** |  |  |  |  |  |  |  |  |  |  |
| Seed Production |  |  |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  |  |  |  |  |  |
| Bio-agents production |  |  |  |  |  |  |  |  |  |  |
| Bio-pesticides production |  |  |  |  |  |  |  |  |  |  |
| Bio-fertilizer production |  |  |  |  |  |  |  |  |  |  |
| Vermi-compost production |  |  |  |  |  |  |  |  |  |  |
| Organic manures production |  |  |  |  |  |  |  |  |  |  |
| Production of fry and fingerlings |  |  |  |  |  |  |  |  |  |  |
| Production of Bee-colonies and wax sheets |  |  |  |  |  |  |  |  |  |  |
| Small tools and implements |  |  |  |  |  |  |  |  |  |  |
| Production of livestock feed and fodder |  |  |  |  |  |  |  |  |  |  |
| Production of Fish feed |  |  |  |  |  |  |  |  |  |  |
| Mushroom production |  |  |  |  |  |  |  |  |  |  |
| Apiculture |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Capacity Building and Group Dynamics** |  |  |  |  |  |  |  |  |  |  |
| Leadership development |  |  |  |  |  |  |  |  |  |  |
| Group dynamics |  |  |  |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  |  |  |  |  |  |  |  |  |
| Mobilization of social capital |  |  |  |  |  |  |  |  |  |  |
| Entrepreneurial development of farmers/youths |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Agro-forestry** |  |  |  |  |  |  |  |  |  |  |
| Production technologies |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming Systems |  |  |  |  |  |  |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **TOTAL** | **74** | **795** | **416** | **850** | **305** | **120** | **422** | **1100** | **806** | **1306** |

**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 | 1 | 5 | | 1 | | 6 | | - | | 2 | | 2 | | 5 | | 3 | | 8 |
| Training and pruning of orchards |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Protected cultivation of vegetable crops |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Commercial fruit production |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Integrated farming |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Seed production |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Production of organic inputs | 1 | 5 | | 1 | | 6 | | - | | 2 | | 2 | | 5 | | 3 | | 8 |
| Planting material production |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Vermi-culture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Mushroom Production |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Bee-keeping |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Sericulture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Repair and maintenance of farm machinery and implements |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Value addition |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Small scale processing |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Post Harvest Technology |  |  | |  | |  |  | |  | |  | |  | |  | |  | |
| Tailoring and Stitching |  |  | |  | |  |  | |  | |  | |  | |  | |  | |
| Rural Crafts |  |  | |  | |  |  | |  | |  | |  | |  | |  | |
| Production of quality animal products |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Dairying |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Sheep and goat rearing |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Quail farming |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Piggery |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Rabbit farming |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Poultry production |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Ornamental fisheries |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Composite fish culture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Freshwater prawn culture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Shrimp farming |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Pearl culture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Cold water fisheries |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Fish harvest and processing technology |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Fry and fingerling rearing |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Any other (pl. specify) |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| **TOTAL** | **2** | **10** | | **2** | | **12** | **0** | | **4** | | **4** | | **10** | | **6** | | **16** | |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | | | | | | | | | |
| **General** | | | | | | **SC/ST** | | | | | | **Grand Total** | | | | |
| **Male** | **Female** | | **Total** | | | **Male** | | **Female** | | **Total** | | **Male** | | **Female** | | **Total** |
| Nursery Management of Horticulture crops |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Training and pruning of orchards |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Protected cultivation of vegetable crops |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Commercial fruit production |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Integrated farming |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Seed production |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Production of organic inputs |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Planting material production |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Vermi-culture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Mushroom Production |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Bee-keeping |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Sericulture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Repair and maintenance of farm machinery and implements |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Value addition |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Small scale processing |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Post Harvest Technology |  |  | |  | |  |  | |  | |  | |  | |  | |  | |
| Tailoring and Stitching |  |  | |  | |  |  | |  | |  | |  | |  | |  | |
| Rural Crafts |  |  | |  | |  |  | |  | |  | |  | |  | |  | |
| Production of quality animal products |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Dairying |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Sheep and goat rearing |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Quail farming |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Piggery |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Rabbit farming |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Poultry production |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Ornamental fisheries |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Composite fish culture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Freshwater prawn culture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Shrimp farming |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Pearl culture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Cold water fisheries |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Fish harvest and processing technology |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Fry and fingerling rearing |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Any other (pl. specify) |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Integrated Pest Management | 3 | 53 | | 3 | | 56 | 0 | | 0 | | 0 | | 53 | | 3 | | 56 | |
| Integrated Disease Management | 7 | 131 | | 6 | | 137 | 12 | | 0 | | 12 | | 143 | | 6 | | 149 | |
| Sericulture |  |  | |  | |  |  | |  | |  | |  | |  | |  | |
| Mulberry cultivation practices and inter cropping | 1 | 14 | | 2 | | 16 | 1 | | - | | 1 | | 15 | | 2 | | 17 | |

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

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | |
| **General** | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| Productivity enhancement in field crops |  |  |  |  |  |  |  |  |  |  |
| Integrated Pest Management | 1 | 9 | 1 | 10 | 1 | 0 | 1 | 10 | 1 | 11 |
| Integrated Nutrient management |  |  |  |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  |  |  |  |  |  |  |  |  |
| Protected cultivation technology |  |  |  |  |  |  |  |  |  |  |
| Production and use of organic inputs |  |  |  |  |  |  |  |  |  |  |
| Care and maintenance of farm machinery and implements |  |  |  |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  |  |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  |  |  |  |  |  |  |  |  |
| Women and Child care |  |  |  |  |  |  |  |  |  |  |
| Low cost and nutrient efficient diet designing |  |  |  |  |  |  |  |  |  |  |
| Group Dynamics and farmers organization |  |  |  |  |  |  |  |  |  |  |
| Information networking among farmers |  |  |  |  |  |  |  |  |  |  |
| Capacity building for ICT application |  |  |  |  |  |  |  |  |  |  |
| Management in farm animals |  |  |  |  |  |  |  |  |  |  |
| Livestock feed and fodder production |  |  |  |  |  |  |  |  |  |  |
| Household food security |  |  |  |  |  |  |  |  |  |  |
| Any other (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| Importance of Juvenile Hormone for uniform maturation of silkworms and quality cocoons. | 1 | 14 | - | 14 | 2 | - | 2 | 16 | - | 16 |
| Mulberry cultivation practice | 9 | 132 | - | 132 | 18 | - | 18 | 150 | - | 150 |
| Improved silk worm rearing | 18 | 180 | - | 180 | 18 | - | 18 | 198 | - | 198 |
| **Total** | 29 | 335 | 1 | 336 | 39 | 0 | 39 | 374 | 1 | 375 |

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

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

7.G. Sponsored training programmes conducted

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **SL. 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 | 2 | 57 | - | 57 | 5 | - | 5 | 62 | - | 62 |
| 2.c. | Spices crops |  |  |  |  |  |  |  |  |  |  |
| **3.** | **Soil health and fertility management** | 2 | 56 | - | 56 | 6 | - | 6 | 62 | - | 62 |
| **4** | **Production of Inputs at site** |  |  |  |  |  |  |  |  |  |  |
| **5** | **Methods of protective cultivation** |  |  |  |  |  |  |  |  |  |  |
| **6** | **Others (pl. specify)** |  |  |  |  |  |  |  |  |  |  |
| **7** | **Post harvest technology and value addition** |  |  |  |  |  |  |  |  |  |  |
| 7.a. | Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| 7.b. | Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **8** | **Farm machinery** |  |  |  |  |  |  |  |  |  |  |
| 8.a. | Farm machinery, tools and implements |  |  |  |  |  |  |  |  |  |  |
| 8.b. | Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **9.** | **Livestock and fisheries** |  |  |  |  |  |  |  |  |  |  |
| **10** | **Livestock production and management** |  |  |  |  |  |  |  |  |  |  |
| 10.a. | Animal Nutrition Management |  |  |  |  |  |  |  |  |  |  |
| 10.b. | Animal Disease Management |  |  |  |  |  |  |  |  |  |  |
| 10.c | Fisheries Nutrition |  |  |  |  |  |  |  |  |  |  |
| 10.d | Fisheries Management |  |  |  |  |  |  |  |  |  |  |
| 10.e. | Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **11.** | **Home Science** |  |  |  |  |  |  |  |  |  |  |
| 11.a. | Household nutritional security |  |  |  |  |  |  |  |  |  |  |
| 11.b. | Economic empowerment of women |  |  |  |  |  |  |  |  |  |  |
| 11.c. | Drudgery reduction of women |  |  |  |  |  |  |  |  |  |  |
| 11.d. | Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **12** | **Agricultural Extension** |  |  |  |  |  |  |  |  |  |  |
| 12.a. | Capacity Building and Group Dynamics |  |  |  |  |  |  |  |  |  |  |
| **Sericulture** |  |  |  |  |  |  |  |  |  |  |  |
| 1 | Mulberry cultivation practice | 9 | 132 | - | 132 | 18 | - | 18 | 150 | - | 150 |
| 2 | Improved silk worm rearing | 18 | 180 | - | 180 | 18 | - | 18 | 198 | - | 198 |

**Details of sponsoring agencies involved**

**1.** NHM

2. Apprentice training Institute (Southern region)

3. NISPM – ICAR

4. CRIDA – NICRA of ICAR

5. Ministry of Agriculture and Cooperation, New Delhi

6. Fertiliser Association of India, Chennai

7. Zilla Panchayath, Belgaum

8. Karnataka State Bio Fuel Development Board, GOK, Bangalore

**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 | 5 | 1 | 6 | - | 2 | 2 | 5 | 3 | 8 |
| 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) |  |  |  |  |  |  |  |  |  |  |
|  | **Total** | **1** | **5** | **1** | **6** | **-** | **2** | **2** | **5** | **3** | **8** |

**PART VIII – EXTENSION ACTIVITIES**

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

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nature of Extension Programme** | **No. of Programmes** | **No. of Participants (General)** | | | **No. of Participants**  **SC / ST** | | | **No.of extension personnel** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| Field Day | 04 | 210 | 35 | 245 | 88 | 17 | 105 | 7 | 0 | 7 |
| Kisan Mela |  |  |  |  |  |  |  |  |  |  |
| Kisan Ghosthi |  |  |  |  |  |  |  |  |  |  |
| Exhibition | 01 | - | - | - | - | - | - | - | - | - |
| Film Show |  |  |  |  |  |  |  |  |  |  |
| Method Demonstrations | 25 | 191 | 68 | 259 | 21 | 19 | 40 | 15 | 3 | 18 |
| Farmers Seminar |  |  |  |  |  |  |  |  |  |  |
| Workshop | 02 | - | - | - | - | - | - | - | - | - |
| Group meetings | 47 | 780 | 138 | 869 | 54 | 31 | 85 | 25 | 2 | 27 |
| Lectures delivered as resource persons | 75 | 1077 | 664 | 1741 | 121 | 87 | 208 | 109 | 11 | 120 |
| Newspaper coverage | 20 | - | - | - | - | - | - | - | - | - |
| Radio talks |  |  |  |  |  |  |  |  |  |  |
| TV talks | 1 |  |  |  |  |  |  |  |  |  |
| Popular articles | 02 | - | - | - | - | - | - | - | - | - |
| Extension Literature | 2 |  |  |  |  |  |  |  |  |  |
| Advisory Services | 101 | 401 | 34 | 435 | 10 | 6 | 16 | 9 | 0 | 9 |
| Scientific visit to farmers field | 189 | 627 | 114 | 741 | 87 | 17 | 104 | 48 | 7 | 55 |
| Farmers visit to KVK | 77 | 162 | 31 | 193 | 21 | 0 | 21 | 8 | 0 | 8 |
| Diagnostic visits | 67 | 151 | 12 | 163 | 39 | 13 | 52 | 9 | 0 | 9 |
| Exposure visits | 6 | 156 | - | 156 | 15 | - | 15 | - | - | - |
| Ex-trainees Sammelan |  |  |  |  |  |  |  |  |  |  |
| Soil health Camp | 2 | 52 | 6 | 58 | 4 | 5 | 9 | 8 | - | 8 |
| Animal Health Camp |  |  |  |  |  |  |  |  |  |  |
| Agri mobile clinic |  |  |  |  |  |  |  |  |  |  |
| Soil test campaigns | 03 | 21 | 09 | 30 | 11 | 02 | 13 | 3 | 01 | 04 |
| Farm Science Club Conveners meet |  |  |  |  |  |  |  |  |  |  |
| Self Help Group Conveners meetings |  |  |  |  |  |  |  |  |  |  |
| Mahila Mandals Conveners meetings |  |  |  |  |  |  |  |  |  |  |
| Celebration of important days (specify) |  |  |  |  |  |  |  |  |  |  |
| Health campaign | 2 | 25 | 61 | 86 | 47 | 68 | 115 | - | - | - |
| Farmers conveyance | 1 | 11 | - | - | 7 | - | - | - | - | - |
| **Total** | **629** | **3910** | **1180** | **5030** | **531** | **270** | **794** | **245** | **24** | **269** |

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

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Crop category | **Name of the crop** | **Variety** | **Hybrid** | **Quantity of seed**  **(qtl)** | **Value**  **(Rs)** | **Number of farmers to whom provided** |
| Cereals (crop wise) | Maize  Wheat | DWR-162 | Kaveri | 43.0  05.0 | 43000/-  15000/- | -  12 |
| Oilseeds | Soybean  Groundnut | JS-335  GPBD-4  GPBD-5  ICGV-91114 |  | 08.0  1.5  1.0  1.2 | 24,000/-  6300/-  4200/-  5040/- | 16  06  04  05 |
| Pulses | Redgram  Bengalgram | TS-3R  JG-11 |  | 4.0  2.9 | 16,000/-  17,400/- | 42  11 |
| Commercial crops | Silkworm Seed cocoons | - | CSR hybrid | 56.20kgs | 12684/- | Grainage |
|  | Turmeric intercrop in mulberry | Kadappa | - | 26kg | 3120/- | - |
| Vegetables | Bitterguard | Vivek |  | 1.0 | 1500/- | 12 |
| Flower crops | Gladiolus  Tuberos | Arjun  Shringar |  | 250 nos  0.05 | 2500/-  250/- | -  - |
| Spices |  |  |  |  |  |  |
| Fodder crop seeds |  |  |  |  |  |  |
| Fiber crops |  |  |  |  |  |  |
| Forest Species |  |  |  |  |  |  |
| Others (specify) Fodder grass | Hybrid napier | APBN-1 |  | 1200 | 36,000/- | 35 |
| **Total** |  |  |  |  | **1,71,190/-** |  |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Crop category** | **Name of the crop** | **Variety** | **Hybrid** | **Number** | **Value (Rs.)** | **Number of farmers to whom provided** |
| Commercial |  |  |  |  |  |  |
| Vegetable seedlings |  |  |  |  |  |  |
| Fruits | Mango | Alphanso |  | 2000 | 60,000 | 30 |
|  | Jamun | Seedlings |  | 1000 | 5000 | - |
|  | Guava | Seedlings |  | 1000 | 5000 | - |
| Ornamental plants | Gladiolus |  |  | 250 | 2500 |  |
|  | Tuberose |  |  | 5kgs | 250 |  |
| Medicinal and Aromatic |  |  |  |  |  |  |
| Plantation |  |  |  |  |  |  |
| Spices |  |  |  |  |  |  |
| Tuber |  |  |  |  |  |  |
| Fodder crop saplings |  |  |  |  |  |  |
| Forest Species |  |  |  |  |  |  |
| Others(specify) |  |  |  |  |  |  |
| **Total** |  |  |  |  | **72,750/-** |  |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Bio Products** | **Name of the bio-product** | **Quantity**  **Kg** | **Value (Rs.)** | **Number of**  **farmers to**  **whom provided** |
| Bio Fertilizers | Vermicompost | 8250 | 16500 | 6 |
| Bio Agents | Micromus | 6000 Nos | 600 | 14 |
| Others (specify) | Earthworm | 14 kg | 1400 | 14 |

# 9.D. Production of livestock materials

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Particulars of Live stock | **Name of the breed** | **Number** | **Value (Rs.)** | **Number of farmers to whom provided** |
| **Dairy animals** |  |  |  |  |
| Cows |  |  |  |  |
| Buffaloes | Pandrapuri& Surthi | 02 | 60,000/- | - |
| Calves | Pandrapuri& Surthi | 03 | 35,000/- | - |
| Others (Pl. specify) |  |  |  |  |
| **Poultry** |  |  |  |  |
| Broilers |  |  |  |  |
| Layers |  |  |  |  |
| Duals (broiler and layer) |  |  |  |  |
| Japanese Quail |  |  |  |  |
| Turkey |  |  |  |  |
| Emu |  |  |  |  |
| Ducks |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |
| **Piggery** |  |  |  |  |
| Piglet |  |  |  |  |
| Others (Pl.specify) |  |  |  |  |
| **Fisheries** |  |  |  |  |
| Fingerlings |  |  |  |  |
| Others (Pl. specify) | Guppy & Swordtail | 625 | 1876/- | 30 |
| **Total** |  | **630** | **96876/-** | **30** |

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

**DROUGHT MITIGATION**

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

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

(B) Literature developed/published

|  |  |  |  |
| --- | --- | --- | --- |
| **Item** | **Title** | **Authors name** | **Number** |
| Research papers |  |  |  |
| Technical reports | Cotton Pest Scenario in Belgaum district | DC Chougala, Dr. S Shashikumar, Miss. Veena Yalaburgi | 1 |
| News letters |  |  |  |
| Technical bulletins | Soil health card | Dr B Gangadhar  Shri M N Malawadi  Shri N R Salimath | 1000 |
| Popular articles | Kadale hechchin iluvaragi sukta tantrgnanagalu | Dr M.N. Malawadi  Dr D.C. Chougala | Annadata magazine |
| Turmeric post harvest techniques | Dr.S. Shashikumar | Annadata magazine |
|  | Krishiyalli Shakti ulithay | Dr S. Shashikumar  Dr M.N. Malawadi  Dr G.S.Patted | Krishi Kamadenu |
| Extension literature | Turmeric | S.S.Sharma | 1000 |
| Others (Pl. specify) |  |  |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **Type of media (CD / VCD / DVD/ Audio-Cassette)** | **Title of the programme** | **Number** |
|  |  |  |  |

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

Redgram is an important pulse crop of Belgaum district. It is grown in an area of 7000 ha. ICM module was undertaken in the selected villageof Athani taluka of Belgaum district. Where Redgram is potential crop. Extn. Methods like survey, Gramsabha and farmers meetings were conducted to study the field problems and to formulate demonstrations on the basis of specific problem. We have implemented ICM module in an area of 10 ha. At Kakamari village of Athani taluk.

Technologies demonstrated by KVK under ICM module were seed treatment with Fungicide Tricoderma @ 500gm /ha and biofertiliser Rhizobium @ 1.25 kgs/ha and PSB @ 1.25 kgs/ha, soil application of Sulphur @ 20 kg per ha with RDF. Foliar spray with HNPV @ 250LE/ha for control of *Helicoverpa armigera*, Endosulphone @1250ml/ha and foliar spray with Indoxacarb @ 500ml/ha for effective control of *Helicoverpa armigera*.The pheromone traps Lures were Used for Monitoring the Helicoverpa insect . While conducting demonstrations. Problems noticed were use of uncertified seeds, wrong spacing (120 X 45 cms). Improper use of RDF, Helicoverpa infestation, Moisture stress and Wilt disease incidence these problems causing low yield in Redgram. After demonstration farmers realized increased yield 38.03 % and improved soil fertility by exploitation of Nitrogen through seed treatment with **Biofertilizers**. The methodologies followed on ICM module through extension activities like trainings, field visits diagnostic service, group meetings method demonstrations, farmer scientist inter action on field days and result demonstrations.

**Results** : Demonstrations showed better results than farmers practice highest yield was obtained from demonstrations as result of technical inputs provided to farmers when ever they need. Average yield obtained from farmers practice was 7.18 qtls/ha and 10.70 qtls/ha from demonstrations

**Horizontal Spread**: Redgram module demonstrated at Kakamari ( One village) during 2010-11 and Kakamari & Adlahatti (Two Villages) same module spread from Three villages to Eight villages ( Kakamari, Telsang, Bannur, adalhatti , Ramathirth, Aigalli ,Yalihadalgi and Kohalli) of Athani taluk

**Comparison of economics on demonstration**

|  |  |  |
| --- | --- | --- |
| **Particulars** | **Demonstration** | **Farmers practice** |
| 1. Yield (qtl/ha) | 10.70 | 7.18 |
| 1. Cost of cultivation | 15,160/- | 10,360/- |
| 1. Gross Income | 42,800/- | 38,720/- |
| 1. Net Income | 27,640/- | 18,360/- |

* Seed cost @ 4000/- per qtl.

**Farmers reaction :** Farmers are happy with good quality seeds with short durated variety, increased weight of seeds and yield (3.52 qtl/ha). Farmers get profit of Rs 14,080/-per ha and gained confidence on ICM module.

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

1. Sugarcane Nursery raising in protray (SSI) technology was transferred to sugarcane growers of Belgaum district through TV programmes and trainings
2. Improved quality breed CSR (2X4) was demonstrated with 5 selected farmers. The success of this demo has resulted in the use of Improved quality breed CSR (2X4) by 95 farmers.

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

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **Crop / Enterprise** | **ITK Practiced** | **Purpose of ITK** |
| 01 | Bengal gram | Broadcasting of puffed Rice (Mandakki) | Control of Helicoverpa armiger |

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

- Identification of courses for farmers/farm women: Gram saba, Group meetings, Development department meetings.

- Rural Youth: SHG meetings, rural youths meeting.

- In service personnel: Bi monthly meetings, suggestions of district and state level authorities.

**10.G. Field activities**

i. Number of villages adopted :59

ii. No. of farm families selected : 451

iii. No. of survey/PRA conducted :37

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

Status of establishment of Lab : Good

1. Year of establishment : 2006-07

2. List of equipments purchased with amount :

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No | Name of the Equipment | Qty. | Cost |
| 1 | ESSAE - Electronic weighing machine  DS-415 : 150 kg : 1/7500 | 1 no | 13,976/- |
| 2 | ESSAE – Electronic weighing machine Adventure AR2140 210 Gms MC | 1 no | 61,252/- |
| 3 | Pelican – Electronic Automatic KEL PLUS Micro processor based twelve place macro Block Digestion system model KES 12 L. | 1 no | 93,925/- |
| 4 | Electronic superior automatic distillation system with digital display – model : ELITE-EX | 1 no | 1,59,720 |
| 5 | FGCL 0378/ Flame Photometer (ss) | 1 no | 48,942/- |
| 6 | Double distillation water still (Glass)  Capacity – 2 lits/hour | 1 no | 16,000/- |
| 7 | Double distillation water still (Quartz) Capacity – 4 lit/hour | 1 no | 43,000/- |
| 8 | Rotary shaker Size: 18’ X 18’ | 1 no | 19,000/- |
| 9 | Laboratory willy mill | 1 no | 17,000/- |
| 10 | Hot Air Oven | 1 no | 16,400/- |
| 11 | Water bath with 12 concentric Rings with digital indicator | 1 no | 15,500/- |
| 12 | FGCM 183 EC TDS Analyser with CC-03 B & ATC Probe | 1 no | 17,100/- |
| 13 | FGLI 120 Digital pH meter with combined electrode CL-5 | 1 no | 6,950/- |
| 14 | Scanning visible Spectra Photometer | 1 no | 45,000/- |
| 15 | Whirlpool Refrigerator | 1 no | 16,875/- |
| Total | | 15no | 5,90,640/- |

Details of samples analyzed so far since establishment of SWTL:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages | Amount realized (Rs.) |
| Soil Samples | 1507 | 1238 | 155 | 2,82,400/- |
| Water Samples | 255 | 141 | 98 | 9300/- |
| Plant samples | 106 | 89 | 40 | 8900/- |
| Manure samples | - | - | - | - |
| Others (specify) | - | - | - | - |
| Total | 1868 | 1468 | 293 | 3,00,600/- |

Details of samples analyzed during the 2011-12 :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages | Amount realized (Rs.) |
| Soil Samples | 281 | 206 | 21 | 54,400/- |
| Water Samples | 12 | 50 | 38 | 2500/- |
| Plant samples | - | - | - | - |
| Manure samples | - | - | - | - |
| Others (specify) | - | - | - | - |
| Total | 293 | 256 | 59 | 56,900/- |

**10.I. Technology Week celebration during 2011-12 Yes/No, Yes**

Period of observing Technology Week: From 02/11/2011to 05/11/2011

Total number of farmers visited : 242

Total number of agencies involved : 4

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 | 1 | 88 | Soil and water management, Insitu water conservation |
| Lectures organized | 8 | 110 | Micro irrigation systems, dry land agriculture |
| Exhibition | 1 | 120 | - |
| Film show | 4 | 109 | Dry land production technology video show |
| Fair |  |  |  |
| Farm Visit |  |  |  |
| Diagnostic Practicals |  |  |  |
| Supply of Literature (No.) | 2 | 140 | Dairy farming, micro nutrient literature |
| Supply of Seed (q) |  |  |  |
| Supply of Planting materials (No.) | 2 | 22 | Alfanso mango and kali patti chikku provided |
| Bio Product supply (Kg) |  |  |  |
| Bio Fertilizers (q) |  |  |  |
| Supply of fingerlings | 1 | 2 | Comman carp and colour fish provided |
| Supply of Livestock specimen (No.) |  |  |  |
| Total number of farmers visited the technology week | 19 | 185 | Agriculture crops, Horticulture, soil and water conservation and Fishery technology |

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

A. Introduction of alternate crops/varieties

|  |  |  |  |
| --- | --- | --- | --- |
| **State** | **Crops/cultivars** | **Area (ha)** | **Number of beneficiaries** |
| Belgaum, Karnataka | Greengram -Chainamung | 100 | 250 |
| Redgram TS-3R | 40 | 100 |
| Bengalgram JG-11 and A-I | 180 | 450 |
| Rabi jawar- BJV-44 | 80 | 200 |
| Bajra ICTP – 8203 | 40 | 100 |
| Soybean-JS-335 | 320 | 800 |
| Groundnut :JL-24 , GPBD-4,Dh-86, TAG-24 and TG-51 | 180 | 450 |
| Wheat – DWR 162, UAS 415, DWR 1006, DWR – 2006 | 200 | 500 |
| K.wheat – DDK1029,DDK 1009, DDK1025 | 200 | 500 |
|  |  |  |

B. Major area coverage under alternate crops/varieties

|  |  |  |
| --- | --- | --- |
| **Crops** | **Area (ha)** | **Number of beneficiaries** |
| Oilseeds | 500 | 1250 |
| Pulses | 320 | 800 |
| Cereals | 520 | 1300 |
| Vegetable crops |  |  |
| Tuber crops |  |  |
| **Total** | **1340** | **3350** |

C. Farmers-scientists interaction on livestock management

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

D. Animal health camps organized

|  |  |  |  |
| --- | --- | --- | --- |
| **State** | **Number of camps** | **No. of animals** | **No. of farmers** |
| Belgaum, Karnataka | 4 | 4025 | 1375 |
| **Total** | **4** | **4025** | **1375** |

E. Seed distribution in drought hit states

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **State** | **Crops** | **Quantity (qtl)** | **Coverage of area (ha)** | **Number of farmers** |
| Belgaum, Karnataka | Red gram TS – 3R | 6.00 | 40 | 100 |
| Bajra ICTP – 8203 | 1.60 | 40 | 100 |
| Rabi jawar- BJV-44 | 6.00 | 80 | 200 |
| **Total** |  | **13.60** | **160** | **400** |

F. Large scale adoption of resource conservation technologies

|  |  |  |  |
| --- | --- | --- | --- |
| **State** | **Crops/cultivars and gist of resource conservation technologies introduced** | **Area (ha)** | **Number of farmers** |
| Belgaum, Karnataka | Compartment bunding | 8.2 | 21 |
|  | Opening of dead furrows | 3.2 | 8 |
|  | Sugar cane trash mulching | 76 | 210 |
|  | Sugar cane trash composing | 6 | 25 |
| **Total** |  | **93.4** | **264** |

G. Awareness campaign

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **State** | **Meetings** | | **Gosthies** | | **Field days** | | **Farmers fair** | | **Exhibition** | | **Film show** | |
|  | **No.** | **No.of farmers** | **No.** | **No.of farmers** | **No.** | **No.of farmers** | **No.** | **No.of farmers** | **No.** | **No.of farmers** | **No.** | **No.of farmers** |
| Belgaum, Karnataka | 12 | 475 | 8 | 354 | 8 | 286 | 4 | 359 | 3 | 587 | 9 | 492 |
|  | 12 | 475 | 8 | 354 | 8 | 286 | 4 | 359 | 3 | 587 | 9 | 492 |

**PART XI. IMPACT**

**11.A. Impact of KVK activities (Not to be restricted for reporting period).**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of specific technology/skill transferred** | **No. of participants** | **% of adoption** | **Change in income (Rs.)** | |
| **Before (Rs./Unit)** | **After (Rs./Unit)** |
| Mirid bug management in cotton | 112 | 85.71 | 95688 | 118890 |
| Management of purple blotch disease in onion | 63 | 90.48 | 87180 | 108900 |
| Seed treatment in vegetable crops | 35 | 76.4 | 42000/acre | 51200/acre |
| Improved quality breed CSR (2X4) | 22 | 100 | 6760/- | 21080/- |

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

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

**(Please furnish detailed information for each case)**

1. **Soybean :**

Soybean is an important oilseed cum pulse crop of Belgaum district. It is grown in an area of 86302 ha. ICM module was undertaken in the selected villages of Hukkeri, Chikkodi and Raibag taluka of Belgaum district. Where soybean is potential crop. Extn. Methods like survey, Gramsabha and farmers meetings were conducted to study the field problems and to formulate demonstrations on the basis of specific problem. I am module implemented in an area of 20 ha. At Beniwad, Yaragatti and Yarnal villages of Hukkeri taluk, Bedakihal village f Chikkodi taluka and Nipnal village of Raibag taluk.

Technologies demonstrated by KVK under ICM module were seed treatment with Rhizobium @ 1.25 kgs/ha and PSB @ 1.25 kgs/ha, soil application of ZnSo4 @ 12 kg per ha with RDF. Foliar spray with Nomurae reily @ 1.25 kgs/ha for control of sprodaptera and foliar spray with Hexaconazol @ 1.25 liters/ha (2 sprays at 50-55 DAS and 65 – 70 DAS) for effective control of rust disease. While conducting demonstrations. Problems noticed were use of uncertified seeds, wrong spacing (45 X 15 cms). Improper use of RDF, spodeptera infestation and Rust disease incidence these problems causing low yield in soybean. After demonstration farmers realized increased yield 10.42 % and improved soil fertility by exploitation of Nitrogen through seed treatment with Rhizobium. The methodologies followed on ICM module through extension activities like trainings, field visits diagnostic service, group meetings method demonstrations, farmer scientist inter action on field days and result demonstrations.

Results : I am demonstration showed better results them farmers practice highest yield was obtained from demonstrations as result of technical inputs provided to farmers when ever they need. Average yield obtained from farmers practice was 24..39 qtls/ha and 26.92 qtls/ha from demonstrations

**Comparison of economics on demonstration**

|  |  |  |
| --- | --- | --- |
| **Particulars** | **Demonstration** | **Farmers practice** |
| Yield (qtl/ha) | 26.92 | 24.38 |
| Cost of cultivation | 10386/- | 8703/- |
| Gross Income | 43072/- | 39008/- |
| Net Income | 32686/- | 30305/- |

* Seed cost @ 1600/- per qtl.

**Farmers reaction :** Farmers are happy with good quality seeds, increased weight of seeds and yield (2.5 qtl/ha). Farmers get profit of Rs 2381/ha and gained confidence on ICM module.

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of specific technology/skill transferred** | **No. of participants** | **% of adoption** | **Change in income (Rs.)** | |
| **Before (Rs./Unit)** | **After (Rs./Unit)** |
| ICM in Red gram | 25 | 95 | 18,360/- per ha | 27,640/- per Acre |

**PART XII - LINKAGES**

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

|  |  |
| --- | --- |
| **Name of organization** | **Nature of linkage** |
| ACB-college, Bijapur | Purchase of Sorghum seeds |
| ADA Gokak | Lecture given at Kharif workshop |
| ARS Arabhavi | Technical guidance from maize breeder |
| BSW college | Extension activities. |
| Dept of Sericulture Zilla Panchayath Belgaum | Sponsored trainings,joint diagnostic survey, joint implementation of FLD, participation in meeting. |
| Dept. of Microbiology UAS, DWD | Purchase of Bio fertilizers |
| Dept. of Social welfare | SHG evaluation |
| Doordarshan | Telecasting Plant protection related technologies |
| Farmers training centre, Arabhavi | Attended training |
| KSSCA-Dharwad | Purchase of Field crop seed |
| ARS- Gulbarga | Purchase of Redgram seeds |
| UAS, DWD | Purchase of Field crop seeds |
| KSSCA-Bagalkot | Purchase of Groundnut seeds |
| ADA Hukkeri | Diagnostic survey, Meeting and trainings for implementing FLD, OFT and trainings |
| ADA Athani | Diagnostic survey, Meeting and trainings for implementing FLD, OFT and trainings |
| NCIPM, New Delhi | NISPM in Bt Cotton Project |
| CRIDA, Hyderabad | Weather Recording Instruments, data recording and its use in Agriculture |
| UAS, Dharwad | Technology back stopping |
| KRCCH, Arabhavi | Technology back stopping |
| NHM | Joint implementation |
| State Dept of Horticulture | Participation in meeting, conducting training programmes |
| Z.P. | Participation in meeting |
| IIHR | Conducting demonstration |
| Dept of Sericulture Zilla Panchayath Belgaum | Sponsored trainings,joint diagnostic survey, joint implementation of FLD, participation in meeting. |
| GKVK, Bangalore | Participation in meeting, purchase of tamarind dehuller-cum-deseeder |
| UAS, Dharwad | Attending training programmes, back stopping of technology |
| CAE, Raichur | Purchase of groundnut decorticator |
| CIAE, Bhopal | Purchase of hand hoe weeder |
| Zilla Panchayat, Belgaum | Sponsored training |
| Primary health centers | Data base on health aspects |
| Women and child development department | Imparted training and guest lecture |

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

**12.B. List 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.)** |
| National Information System for Pest Management in Cotton | June, 2008 | NCIPM, New Delhi | 5.7 lakhs |
| Service provider | April 2011 | Dept of Horticulture | 4 lakhs |

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

a) Is ATMA implemented in your district Yes/No: Yes

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

**Coordination activities between KVK and ATMA during 2011-12**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Programme** | **Particulars** | **No. of programmes attended by KVK staff** | **No. of programmes Organized by KVK** | **Other remarks (if any)** |
| 01 | **Meetings** |  |  |  |  |
| 02 | **Research projects** |  |  |  |  |
| 03 | **Training programmes** | Organic horticulture | 4 | 4 |  |
| 04 | **Demonstrations** | Mango fruit fly management | 2 | 2 |  |
|  |  |  |  |  |  |
| 05 | **Extension Programmes** |  |  |  |  |
|  | Kisan Mela |  |  |  |  |
|  | Technology Week |  |  |  |  |
|  | Exposure visit |  |  |  |  |
|  | Exhibition |  |  |  |  |
|  | Soil health camps |  |  |  |  |
|  | Animal Health Campaigns |  |  |  |  |
|  | Others (Pl. specify) |  |  |  |  |
| **06** | **Publications** |  |  |  |  |
|  | Video Films |  |  |  |  |
|  | Books |  |  |  |  |
|  | Extension Literature |  |  |  |  |
|  | Pamphlets |  |  |  |  |
|  | Others (Pl. specify) |  |  |  |  |
| **07** | **Other Activities** (Pl. specify) |  |  |  |  |
|  | Watershed approach |  |  |  |  |
|  | Integrated Farm Development |  |  |  |  |
|  | Agri-preneurs development |  |  |  |  |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Programme** | **Nature of linkage** | **Funds received if any Rs.** | **Expenditure during the reporting period in Rs.** | **Constraints if any** |
| 1 | Organic certification of horticulture crops | Service provider | 3 lakhs | 3 lakhs | - |

**12.E. 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** |
|  |  |  |  |  |  |

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

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

**12. G Kisan Mobile Advisory Services**

|  |  |  |  |
| --- | --- | --- | --- |
| **Month** | **No. of SMS sent** | **No. of farmers to which SMS was sent** | **No. of feedback / query on SMS sent** |
| April 2011 | 4800 | 546 | - |
| May | 4810 | 546 | - |
| June | 5487 | 546 | - |
| July | 6478 | 546 | - |
| August | 2050 | 278 | - |
| September | 3078 | 300 | - |
| October | 4725 | 379 | - |
| November | 3857 | 546 | - |
| December | 3591 | 546 | - |
| January 2011 | 5937 | 546 | - |
| February | 4963 | 546 | - |
| March | 4483 | 546 | - |

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

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Demo Unit** | **Year of**  **establishment** | **Area**  **(ha)** | **Details of production** | | | **Amount (Rs.)** | | **Remarks** |
| **Variety** | **Produce** | **Qty.** | **Cost of inputs** | **Gross income** |
| 1 | Vermicompost | 2001-02 | 0.0019 | Udrilus eujenia | Worms  Vermicopost | 0.22  102.0 | 1050/-  5250/- | 5500/-  25,500/- | 1:5.23  1:4.85 |
| 2 | Polyhouse | 2005-06 | 0.0075 | Alphanso | Mango grafts | 2000Nos | 16,000/- | 60,000/- | 1:3.75 |
| 3 | Nursery | 2007-08 | 0.01 | Local  Local | Jamunseedlings  Guava seedlings | 1000 nos  1000 nos | 1000/-  1000/- | 5000/-  5000/- | 1:5.0  1:5.0 |
| 4 | Fish culture | 2006 | 0.02 | Guppy & Swordtail | Fish | 625 nos | 400/- | 1876/- | 1:4.69 |

**13.B. 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 | |  |  |  |  |  |  |  |  |  |
| Maize | | June 2011 | October 2011 | 1.2 | Kaveri hybrid | Grain | 43 qtls | 16102/- | 43000/- | 1:2.67 |
| Wheat | | October 2011 | February 2012 | 0.2 | DWR-162 | Seeds | 05 qtls | 4875/- | 15000/- | 1:3.07 |
| Pulses | |  |  |  |  |  |  |  |  |  |
| Redgram | | July-2011 | December-2011 | 0.4 | TS-3R | Grain | 4.0 qtls | 5100/- | 16000/- | 1:3.13 |
| Bengalgram | | November-2011 | February-2012 | 0.15 | JG-11 | Grain | 2.9 qtls | 4600/- | 17400/- | 1:3.78 |
| Oilseeds | |  |  |  |  |  |  |  |  |  |
| Soybean | | June-2011 | September-2011 | 0.4 | JS-335 | Grain | 8.0 | 6420/- | 24000/- | 1:3.73 |
| Groundnut | | June-2011 | October-2011 | 0.1  0.1  0.1 | GPBD-5 GPBD-4  ICGV-91114 | Seed  Seed  Seed | 1.0  1.5  1.2 | 805/-  1075/-  915/- | 4200/-  6300/-  5040/- | 1:5.25  1:5.86  1:5.50 |
| Fibers | |  |  |  |  |  |  |  |  |  |
| Spices & Plantation crops | | | | | | | | | | |
|  |  | |  |  |  |  |  |  |  |  |
| Floriculture |  | |  |  |  |  |  |  |  |  |
| Gladiolus | June2011 | | October 2011 | 0.01 | Arjun | Corn | 250 nos | 500/- | 2500/- | 1:5.0 |
| Tuberos | June2011 | | October 2011 | 0.01 | Shringar | Tuber | 5kgs | 100/- | 250/- | 1:2.5 |
| Fruits |  | |  |  |  |  |  |  |  |  |
| Tamarind | 1996-97 | | March-2012 | 0.8 | MTI-Series | Fruit | 10.0 | 4625/- | 18000/- | 1:3.8 |
| Vegetables |  | |  |  |  |  |  |  |  |  |
| Onion | December 18th, 2011 | | March 6th, 2012 | 0.08 | Nashikred | Bulbs | 687 kg | 1358 | 4122 |  |
| Bitterguard | August2011 | | Noveber2011 | 0.01 | Vivek | vegitable | 1.0 qtls | 500/- | 1500/- | 1:3.0 |
| Others (specify) | | | | | | | | | | |
| Fodder grasses |  | |  |  |  |  |  |  |  |  |
| Hybrid napier | June2011 | | September-March-2012 | 1.2 | APBN-1 | Fodder Grass | 1200.0 | 15600/- | 36000/- | 1:2.30 |
|  |  | |  |  |  |  |  |  |  |  |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Name of the Product** | **Qty** | **Amount (Rs.)** | | **Remarks** |
| **Cost of inputs** | **Gross income** |
| 1 | Vermi compost | 8.250 t | 2456 | 16500 | - |
| 2 | Worms | 14 kg | - | 1400 | - |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.**  **No** | **Name**  **of the animal / bird / aquatics** | **Details of production** | | | **Amount (Rs.)** | | **Remarks** |
| **Breed** | **Type of Produce** | **Qty.** | **Cost of inputs** | **Gross income** |
| 01 | Buffaloes | Pandrapuri | Milk | 900 lts | 9500/- | 27000/- | - |
| 02 | Fish | Guppy &Swordtail | Fish | 625 nos | 400/- | 1876/- | - |

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

Accommodation available (No. of beds): 100

|  |  |  |  |
| --- | --- | --- | --- |
| **Months** | **No. of trainees stayed** | **Trainee days (days stayed)** | **Reason for short fall (if any)** |
| April | 70 | 5 | - |
| May | 145 | 5 | - |
| June | 64 | 3 | - |
| July | 0 | 0 | - |
| August | 0 | 0 | - |
| September | 174 | 10 | - |
| October | 0 | 0 | - |
| November | 54 | 5 | - |
| December | 47 | 5 | - |
| January | 0 | 0 | - |
| February | 0 | 0 | - |
| March | 49 | 10 | - |

**13.F. Database management**

|  |  |  |
| --- | --- | --- |
| **S. No** | **Database target** | **Database created** |
| 1 |  | Library |
| 2 |  | Farmers visit to KVK |
| 3 | KVK Data base | Under progress |

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

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

**PART XIV - FINANCIAL PERFORMANCE**

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Bank account** | **Name of the bank** | **Location** | **Branch code** | **Account Name** | **Account Number** | **MICR Number** | **IFSC Number** |
| With Host Institute | SBI, ADB | Gokak | 001814 | Executive Director | 10818205756 | 591002308 | SBIN0001814 |
| With KVK | SBI, ADB | Gokak | 001814 | Main KVK | 10818205723 | 591002308 | SBIN0001814 |
|  | SBI, ADB | Gokak | 001814 | FLD | 10818205734 | 591002308 | SBIN0001814 |
|  | SBI, ADB | Gokak | 001814 | Revolving Fund | 10818205756 | 591002308 | SBIN0001814 |

**14.B. Utilization of KVK funds during the year 2011-12(Rs. in lakh)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.**  **No.** | **Particulars** | **Sanctioned** | **Released** | **Expenditure** |
| **A. Recurring Contingencies** | | | | |
| 1 | Pay & Allowances | 67,00,000 | 67,00,000 | 67,58,251 |
| 2 | Traveling allowances | 1,00,000 | 1,00,000 | 1,44,038 |
| 3 | Contingencies | | | |
| *A* | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 1,00,000 | 1,00,000 | 1,66,722 |
| *B* | POL, repair of vehicles, tractor and equipments | 75,000 | 75,000 | 1,67,190 |
| *C* | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained) | 50,000 | 50,000 | 43,159 |
| *D* | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | 15,000 | 15,000 | 14,116 |
| *E* | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | 2,50,000 | 2,50,000 | 2,46,035 |
|  | FLD on Special Pulses Programme | 1,50,000 | 1,50,000 | 1,52,500 |
| *F* | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | 1,00,000 | 1,00,000 | 1,01,740 |
| *G* | Training of extension functionaries | 10,000 | 10,000 | 9,122 |
| *H* | Maintenance of buildings | 10,000 | 10,000 | 13,640 |
| *I* | Extension Activities | 10,000 | 10,000 | 33,000 |
| *J* | Farmers Field School | 25,000 | 25,000 | 24,160 |
| *K* | Library | 5,000 | 5,000 | 7,169 |
| **TOTAL (A)** | | **76,00,000** | **76,00,000** | **78,80,842** |
| **B. Non-Recurring Contingencies** | |  |  |  |
| 1 | **Equipments & Furniture** |  |  |  |
| a | Plant Health Diognostic Facility | 10,00,000 | 10,00,000 | 10,00,000 |
| 2 | **Works** |  |  |  |
| a | Vehicle and Implement Shed | 2,00,000 | 2,00,000 | 2,00,000 |
| 3 | **Vehicle** (Four wheeler/Two wheeler, please specify) |  |  |  |
| 4 | **Library** (Purchase of assets like books & journals) |  |  |  |
| **TOTAL (B)** | | 12,00,000 | 12,00,000 | 12,00,000 |
| **C. REVOLVING FUND** | |  |  |  |
| **GRAND TOTAL (A+B+C)** | | **88,00,000** | **88,00,000** | **90,80,842** |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Year** | **Opening balance as on 1st April** | **Income during the year** | **Expenditure during the year** | **Net balance in hand as on 1st April of each year** |
| April 2009 to March 2010 | 400272 | 2432713 | 2411232 | 421753 |
| April 2010 to March 2011 | 421753 | 6013583 | 5698124 | 737212 |
| April 2011 to March 2012 | 737212 | 1748732 | 1583923 | 902021 |

**15. Details of HRD activities attended by KVK staff during 2011-12**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of the staff** | **Designation** | Title of the training programme | Institute where attended | Dates |
| M. N . Malawadi | SMS -Agronomy | Computer Aided Irrigation Water Allocation | UAS Dharwad | 29/03/2012 |
| S.S.Sharma | Programme Asst. | INM, IPM and IDM of dry land crops | CRIDA, Hyderabad | 28-2-2012 to 12-3-2012 |
| Dr. Shweta Biradar | SMS (Home Science) | Interface meeting of SMS Home Scientists and AICRP-Home Scientists | GKVK, Bangalore | 8-9 February 2011 |
| Seed testing and evaluation | UAS, Dharwad | 7-11 March 2011 |
| Trainers training programme | AICRP (T and C) | 17-18 May 2011 |
| Appropriate clothing practices and garment designing and construction | AICRP (T and C) | 10-11 Aug 2011 |

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

**SUMMARY FOR 2011-12**

# I. TECHNOLOGY ASSESSMENT

**Summary of technologies assessed under various crops**

|  |  |  |  |
| --- | --- | --- | --- |
| **Thematic areas** | **Crop** | **Name of the technology assessed** | **No. of trials** |
| Integrated Nutrient Management |  |  |  |
|  |  |  |
| Varietal Evaluation | Groundnut | Different genotypes of TMV-2,GPBD-4 and ICGV-91114 | 8 |
| Turmeric | Assessment of BSR-1 turmeric variety | 5 |
| Integrated Pest Management | Onion | Assessment of efficacy of new insecticide in the management of onion thrips | 10 |
| Bittergourd | Assessment of efficacy of different baits in the melon fruit fly management | 10 |
| Integrated Crop Management |  |  |  |
|  |  |  |
| Integrated Disease Management |  |  |  |
|  |  |  |
| Small Scale Income Generation Enterprises |  |  |  |
|  |  |  |
| Weed Management |  |  |  |
|  |  |  |
| Resource Conservation Technology | Mulberry sole crop | Assessment of mulberry sole crop under paired row | 4 |
| turmeric intercropping in mulberry | Assessment of turmeric intercropping in mulberry under paired row | 4 |
| Farm Machineries |  |  |  |
|  |  |  |
| Integrated Farming System |  |  |  |
|  |  |  |
| Seed / Plant production |  |  |  |
|  |  |  |
| Value addition |  |  |  |
|  |  |  |
| Drudgery Reduction | Bengal gram | Use of hand gloves | 5 |  |  |
|  |  |  |
| Storage Technique |  |  |  |
|  |  |  |
| Others (Pl. specify) |  |  |  |
|  |  |  |
| **Total** | | |  |

**Summary of technologies assessed under livestock**

|  |  |  |  |
| --- | --- | --- | --- |
| **Thematic areas** | **Name of the livestock enterprise** | **Name of the technology assessed** | **No. of trials** |
| Disease Management |  |  |  |
| Evaluation of Breeds |  |  |  |
| Feed and Fodder management |  |  |  |
| Nutrition Management |  |  |  |
| Production and Management |  |  |  |
| Others (Pl. specify) |  |  |  |
| **Total** | | |  |

**Summary of technologies assessed under various enterprises**

|  |  |  |  |
| --- | --- | --- | --- |
| **Thematic areas** | **Enterprise** | **Name of the technology assessed** | **No. of trials** |
| Turmeric intercropping in mulberry under paired row | Sericulture | Technology option 1 (Farmer’s practice):  Mulberry sole crop under paired row |  |
| Sericulture | Technology option 2 :  Turmeric intercropping in mulberry under paired row |  |

**Summary of technologies assessed under home science**

|  |  |  |  |
| --- | --- | --- | --- |
| **Thematic areas** | **Enterprise** | **Name of the technology assessed** | **No. of trials** |
|  |  |  |  |
|  |  |  |

# II. TECHNOLOGY REFINEMENT

**Summary of technologies refined under various crops**

|  |  |  |  |
| --- | --- | --- | --- |
| **Thematic areas** | **Crop** | **Name of the technology refined** | **No. of trials** |
| 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 |  |  |  |
|  |  |  |
| Others (Pl. specify) |  |  |  |
|  |  |  |
| **Total** | | |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Thematic areas** | **Name of the livestock enterprise** | **Name of the technology refined** | **No. of trials** |
| Disease Management |  |  |  |
| Evaluation of Breeds |  |  |  |
| Feed and Fodder management |  |  |  |
| Nutrition Management |  |  |  |
| Production and Management |  |  |  |
| Others (Pl. specify) |  |  |  |
| **Total** | | |  |

**Summary of technologies refined under various enterprises**

|  |  |  |  |
| --- | --- | --- | --- |
| **Thematic areas** | **Enterprise** | **Name of the technology assessed** | **No. of trials** |
|  |  |  |  |
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**Summary of technologies refined under home science**

|  |  |  |  |
| --- | --- | --- | --- |
| **Thematic areas** | **Enterprise** | **Name of the technology assessed** | **No. of trials** |
|  |  |  |  |
|  |  |  |

**III. FRONTLINE DEMONSTRATION**

**Crops**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Crop** | **Thematic area** | **Name of the technology demonstrated** | **No. of KVKs** | **No. of Farmer** | **Area**  **(ha)** | **Yield (q/ha)** | | **% change in yield** | **Other parameters** | | **\*Economics of demonstration (Rs./ha)** | | | | **\*Economics of check**  **(Rs./ha)** | | | |
| **Demons**  **Ration** | **Check** |  | **Demo** | **Check** | **Gross**  **Cost** | **Gross**  **Return** | **Net Return** | **\*\***  **BCR** | **Gross**  **Cost** | **Gross**  **Return** | **Net Return** | **\*\***  **BCR** |
| Cereals |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Maize | ICM | Seed rate -21Kg/ha,  Fertilizer- 150:75:37.5 (Kg/ha),Siol application of  Micronutrients- FeSo4-25 and  ZnSo4-25  (kg/ha) , Hexaconozole-625ml./ha and  Mancozeb – 3 kg |  | 10 | 5.0 | 68.93 | 58.5 | 17.11 | Plant height (cm):166  No.of seeds/cob:  720  No.of rows/ cob:16    100 grain weight (g):30.5 | 160  560  14  28.5 | 12402 | 60658 | 48256 | 1:4.89 | 10349 | 51797 | 41448 | 1:5.00 |
| Maize | Zinc and Iron Management | M 900  seeds:18.75kgs/ha and Soil application of Zn & Fe @ 25 kg/ha |  | 12 | 5.0 | 66.22 | 59.77 | 10.79 | Plant height (cm):165  No.of seeds/cob:  690  No.of rows/ cob:16  100grain weight (g):29.0 | 157  546  14  27.0 | 13264 | 62909 | 49645 | 1:4.74 | 9087 | 56782 | 47695 | 1:6.25 |
| Millets |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Oilseeds |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Soybean | INM | Seeds (JS 335) -75kg/ ha, Rhizobium -1.25kg/ha, PSB-1.25kg/ha and Sulphur-20kg/ha |  | 25 | 10 | 26.55 | 19.95 | 34.09 | Plant height (cm):80  No. of Pods/hill:167  No. of seeds/pod: 2.6  No. of Nodules/hill:132  100 grain weight (g):18.5 | 91  87  2.4  97  16.7 | 50445 | 14679 | 35766 | 1:3.4 | 10939 | 37905 | 26966 | 1:3.46 |
| Groundnut | Varietal with INM | Seeds:125 kgs/ha,  Tricoderma:0.5 kgs/ha ,  Rhizobium:1.25kgs/h a,  PSB : 1.25 kgs/ha and  Gypsum:500kgs/ha |  | 12 | 5.0 | 24.50 | 22.25 | 34.47 | No. of Pods/hill: 62  No. of seeds/pod:2  No. of Nodules/hill:85  100 grain weight (g):22 | 55  1-2  71  19 | 12904 | 75392 | 62488 | 1:5.8 | 11386 | 57792 | 46406 | 1:5.0 |
| Groundnut | Varietal with INM | Seeds:150 kgs/ha,  Trichoderma : 0.5 kgs/ha ,  Rhizobium :1.25 kgs/h a,  PSB :1.25 kgs/ha |  | 13 | 5.0 | Crop under progress | | | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pulses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Greengram | ICM in Greengram | Seeds-10kg/ac Trichoderma-0.2 kg/ac Rhizobium-0.2 kg/ac PSB-0.2 kg/ac Vermicompost-200kg/ac Stomp-0.5kg a i/ac Znso4-8kg/ac Quinolphos-0.5 lit/ac Bavistin-0.5 kg/ac |  | 20 | 8.0 | 6.6 | 4.8 | 37.50 | Plant height (cm):49  No of pods /hill:48  No. of seeds/pod:  10  1000 grain weight (g):32.5 | 51  45  6-8  30.15 | 12675 | 33000 | 20325 | 1:2.6 | 8760 | 24125 | 15365 | 1:2.75 |
| Redgram | ICm in Redgram | Seeds-6kg /ac,  Tricoderma-200g /ac,  Rhizobium-200g /ac,  Sulpure-8kg /ac,  HNPV-100LE /ac,  Indoxacarb-200ml/ac ,Endosulphan-500ml/ac,  Pheromone traps-2 Nos./ac,  lures 6 Nos./ac and Vermicompost-400ka/ac |  | 25 | 10 | 10.70 | 7.18 | 49.15 | Plant height (cm):185  No of pods /hill:295  No. of seeds/pod:5  100 grain weight (g):7.7 | 165  230  4  6.25 | 15160 | 42800 | 27640 | 1:2.82 | 10360 | 28720 | 18360 | 1;2.77 |
| Bengalgram | ICM in bengal  gram | Seeds-32kg/ac,  Rhizobium-600gm/ac,  Tricoderma-200gm/ac,  Indoxacarb 0.2lit. /ac,  NPV-100LE/ac,  Pheromone traps -2Nos,  Lures-3Nos  and FYM-2tons/ac |  | 20 | 8 | 18.03 | 13.65 | 32.05 | No. of seeds/pod:1-2  No. of Nodules/hill:59  100 grain weight (g):21.5 | 1-2  48  17.9 | 14385 | 68495 | 54110 | 1:4.8 | 10173 | 51870 | 41698 | 1:5.1 |
| **Vegetables** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Onion** | Integrated Disease Management | Disease management with the use of more effective new generation fungicide in onion |  | **20** | **8** | 14.62 | 11.97 | **22.13** | Purple blotch incidence: 8.13 %  Yield q/ha:14.62 | 21.36 %  11.97 | 46253 | 87720 | 41467 | 1:1.89 | 42371 | 71820 | 29449 | 1:1.69 |
| **Flowers** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Ornamental** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Fruit** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Fibres like Cotton** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Spices and condiments** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Commercial** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sugarcane | Zinc and Iron Management | Soil application ofFeSo4:25kg/ha, and ZnSo4:25kg/ha,  Foliar spray with FeSo4:3.75kg/ha, and ZnSo4:3.75kg/ha, |  | 10 | 4.0 | 130.47 | 112.90 | 15.56 | Single cane weight (Kgs):1.25  Yield ton/ha:132 | 1.05  115 | 61295 | 260940 | 199645 | 1:4.26 | 69052 | 225800 | 156748 | 1:3.27 |
| Sugarcane | Integrated Insect Management | To show the effectiveness of  *Metarrhizium anisopliae* in combination with phorate in sugarcane |  | **12** | **5** | 112.37 | 86.21 | 30.34 | Per cent clump infestation : 9.94%  Yield t/ha:112.37 | 34.27%  86.21 | 48526 | 224740 | 176214 | 1:4.63 | 47564 | 172420 | 124856 | 1:3.62 |
| Sugarcane | Crop under progress | | | | | | | | | | | | | | | | | |
| **Medicinal and aromatic** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Fodder** | Promotion of high yielding fodder crops | Introduction of grass and leguminous fodder varieties | 1 | 10 | 2 | Guinea-5.97 | 3.82 | 56.69 |  |  | 25019 | 59500 | 34481 | 1:2.37 | 21399 | 38000 |  |  |
| Signal – 4.93 |  | 29.39 |  |  | 26151 | 49500 | 23349 | 1:1.89 |  |  |  |  |
| Rhodes-4.97 |  | 30.44 |  |  | 34297 | 49700 | 15403 | 1:1.44 |  |  |  |  |
| Lucern-3.69 | 3.13 | 17.89 |  |  | 14876 | 44280 | 29404 | 1:2.97 | 14336 | 37560 |  |  |
| **Plantation** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Fibre** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Silkworm | Improved quality breed CSR (2X4) | 1 | 5 | 5 | Avg. cocoon yield  67.88Kg  /100DFLs | Avg. cocoon yield  61.44Kg  /100DFLs | 10.5 | 1.Renditta -5.7  2.Silkworm mortality –6.0  3.Egg hatching percent-88% | 7.6  19.0  72% | 4185/- | 21382/- | 17197/- | 1:5 | 4185/- | 11059/- | 6874/- | 1:2.6 |  |
| Incubation frame | Promotion of incubation frame for loose eggs | 1 | 10 | 10 | Result yet to submit | | | | | | | | | | | | | |
| Juvenile hormone | Promotion of Juvenile hormone for uniform maturation of silkworms | 1 | 10 | 10 | Result yet to submit | | | | | | | | | | | | | |
|  | **Total** | |  |  |  |  | | | | | | | | | | | | |

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

\*\* BCR= GROSS RETURN/GROSS COST

Livestock

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Category | Thematic area | | Name of the technology demonstrated | No. of KVKs | No. of Farmer | No .of units | Major parameters | | % change in major parameter | Other parameter | | \*Economics of demonstration (Rs.) | | | | \*Economics of check  (Rs.) | | | |
| Demons  ration | Check |  | Demo | Check | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
| Dairy |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Poultry |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Rabbitry** |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pigerry** |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Sheep and goat** |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Duckery** |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Others (pl.specify)** |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | | **Total** | |  |  |  |  | | | | | | | | | | | | |

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

\*\* BCR= GROSS RETURN/GROSS COST

Fisheries

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Category | Thematic area | Name of the technology demonstrated | No. of KVKs | No. of Farmer | No.of units | Major parameters | | % change in major parameter | Other parameter | | \*Economics of demonstration (Rs.) | | | | \*Economics of check  (Rs.) | | | |
| Demons  ration | Check |  | Demons  ration | Check | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
| 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

Other enterprises

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Category | Name of the technology demonstrated | No. of KVKs | No. of Farmer | No.of units | Major parameters | | % change in major parameter | Other parameter | | \*Economics of demonstration (Rs.) or Rs./unit | | | | \*Economics of check  (Rs.) or Rs./unit | | | |
| Demons  ration | Check |  | Demons  ration | Check | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
| 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

Women empowerment

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Category | Name of technology | No. of KVKs | No. of demonstrations | Name of observations | Demonstration | Check |
| Women |  |  |  |  |  |  |
| Pregnant women |  |  |  |  |  |  |
| Adolescent Girl |  |  |  |  |  |  |
| Other women |  |  |  |  |  |  |
| Children |  |  |  |  |  |  |
| Neonats |  |  |  |  |  |  |
| Infants |  |  |  |  |  |  |
| Children |  |  |  |  |  |  |

Farm implements and machinery

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Name of the implement** | **Crop** | **Name of the technology demonstrated** | **No. of KVKs** | **No. of Farmer** | **Area (ha)** | **Filed observation (output/man hour)** | | **% change in major parameter** | **Labor reduction (man days)** | | | | **Cost reduction (Rs./ha or Rs./Unit ect.)** | | | |
| **Demons**  **ration** | **Check** |  |  |  |  |  |  |  |  |
| Tamarind dehuller-cum-deseeder | tamarind | PromotionTamarind dehuller-cum-deseeder | 1 | 5 | - | Average tamarind dehulled – 49.84 (qtl)/day- | Average tamarind dehulled-11.68 (qtl)/day | - | - | - | - | - | - | - | - | - |
| Groundnut decorticator | Groundnut | Promotion of groundnut decorticator | 3 | 10 | - | Average groundnut shelled-/day-609.6 | Average groundnut shelled-/day-36.4 | - | - | - | - | - | - | - | - | - |
| Hand hoe weeder with three tynes | Green gram | Introduction of hand hoe weeder | 2 | 15 | 0.6 | 8.93 | 31.06 | - | - | - | - | - | - | - | - | - |

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

\*\* BCR= GROSS RETURN/GROSS COST

**Other enterprises**

**Demonstration details on crop hybrids**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Crop** | **Name of the Hybrid** | **No. of**  **farmers** | **Area**  **(ha)** | **Yield (kg/ha) / major parameter** | | | **Economics (Rs./ha)** | | | |
|  |  |  |  | **Demonst-**  **ration** | **Local check** | **% change** | **Gross**  **Cost** | **Gross**  **Return** | **Net**  **Return** | **BCR** |
| **Cereals** |  |  |  |  |  |  |  |  |  |  |
| Bajra |  |  |  |  |  |  |  |  |  |  |
| Maize |  |  |  |  |  |  |  |  |  |  |
| Rice |  |  |  |  |  |  |  |  |  |  |
| 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 |  |  |  |  |  |  |  |  |  |  |

IV. Training Programme

**Training for Farmers and Farm Women including sponsored training programmes (On campus)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | |
| **General** | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| **Crop Production** |  |  |  |  |  |  |  |  |  |  |
| Weed Management | 01 | 10 | 2 | 12 | 2 | 1 | 3 | 12 | 3 | 15 |
| Resource Conservation Technologies |  |  |  |  |  |  |  |  |  |  |
| Cropping Systems |  |  |  |  |  |  |  |  |  |  |
| Crop Diversification |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming |  |  |  |  |  |  |  |  |  |  |
| Micro Irrigation/Irrigation |  |  |  |  |  |  |  |  |  |  |
| Seed production |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Integrated Crop Management | 3 | 29 | 1 | 30 | 10 | 2 | 12 | 36 | 6 | 42 |
| Soil and Water Conservation |  |  |  |  |  |  |  |  |  |  |
| Integrated Nutrient Management | 02 | 18 | 2 | 20 | 2 | 1 | 3 | 20 | 3 | 23 |
| Integrated water management | 01 | 10 | 1 | 11 | 2 | 0 | 2 | 11 | 2 | 13 |
| Micro nutrient deficiency in crops | 01 | 9 | 1 | 10 | 2 | 1 | 3 | 11 | 3 | 14 |
| Soil and water testing | 01 | 10 | 1 | 11 | 2 | 0 | 2 | 12 | 3 | 15 |
| Production of organic inputs |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Horticulture** |  |  |  |  |  |  |  |  |  |  |
| **a) Vegetable Crops** |  |  |  |  |  |  |  |  |  |  |
| Production of low value and high volume crop |  |  |  |  |  |  |  |  |  |  |
| Off-season vegetables |  |  |  |  |  |  |  |  |  |  |
| Nursery raising |  |  |  |  |  |  |  |  |  |  |
| Exotic vegetables |  |  |  |  |  |  |  |  |  |  |
| Export potential vegetables |  |  |  |  |  |  |  |  |  |  |
| Grading and standardization |  |  |  |  |  |  |  |  |  |  |
| Protective cultivation |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **b) Fruits** |  |  |  |  |  |  |  |  |  |  |
| Training and Pruning |  |  |  |  |  |  |  |  |  |  |
| Layout and Management of Orchards |  |  |  |  |  |  |  |  |  |  |
| Cultivation of Fruit |  |  |  |  |  |  |  |  |  |  |
| Management of young plants/orchards |  |  |  |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  |  |  |  |  |  |  |  |  |
| Export potential fruits |  |  |  |  |  |  |  |  |  |  |
| Micro irrigation systems of orchards |  |  |  |  |  |  |  |  |  |  |
| Plant propagation techniques |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **c) Ornamental Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery Management |  |  |  |  |  |  |  |  |  |  |
| Management of potted plants |  |  |  |  |  |  |  |  |  |  |
| Export potential of ornamental plants |  |  |  |  |  |  |  |  |  |  |
| Propagation techniques of Ornamental Plants |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **d) Plantation crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **e) Tuber crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **f) Spices** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **g) Medicinal and Aromatic Plants** |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Production and management technology |  |  |  |  |  |  |  |  |  |  |
| Post harvest technology and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Soil Health and Fertility Management** |  |  |  |  |  |  |  |  |  |  |
| Soil fertility management |  |  |  |  |  |  |  |  |  |  |
| Integrated water management |  |  |  |  |  |  |  |  |  |  |
| Integrated nutrient management |  |  |  |  |  |  |  |  |  |  |
| Production and use of organic inputs |  |  |  |  |  |  |  |  |  |  |
| Management of Problematic soils |  |  |  |  |  |  |  |  |  |  |
| Micro nutrient deficiency in crops |  |  |  |  |  |  |  |  |  |  |
| Nutrient use efficiency |  |  |  |  |  |  |  |  |  |  |
| Balanced use of fertilizers |  |  |  |  |  |  |  |  |  |  |
| Soil and water testing |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Livestock Production and Management** |  |  |  |  |  |  |  |  |  |  |
| Dairy Management |  |  |  |  |  |  |  |  |  |  |
| Poultry Management |  |  |  |  |  |  |  |  |  |  |
| Piggery Management |  |  |  |  |  |  |  |  |  |  |
| Rabbit Management |  |  |  |  |  |  |  |  |  |  |
| Animal Nutrition Management |  |  |  |  |  |  |  |  |  |  |
| Animal Disease Management |  |  |  |  |  |  |  |  |  |  |
| Feed and Fodder technology |  |  |  |  |  |  |  |  |  |  |
| Production of quality animal products |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Home Science/Women empowerment** |  |  |  |  |  |  |  |  |  |  |
| Household food security by kitchen gardening and nutrition gardening | 1 |  | 43 | 43 |  | 5 | 5 |  | 48 | 48 |
| 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 | 1 | 25 | 2 | 0 | 0 | 0 | 0 | 25 | 2 | 27 |
| Integrated Disease Management | 1 | 23 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 23 |
| Bio-control of pests and diseases |  |  |  |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Fisheries** |  |  |  |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing |  |  |  |  |  |  |  |  |  |  |
| Composite fish culture |  |  |  |  |  |  |  |  |  |  |
| Hatchery management and culture of freshwater prawn |  |  |  |  |  |  |  |  |  |  |
| Breeding and culture of ornamental fishes |  |  |  |  |  |  |  |  |  |  |
| Portable plastic carp hatchery |  |  |  |  |  |  |  |  |  |  |
| Pen culture of fish and prawn |  |  |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  |  |  |  |  |  |
| Edible oyster farming |  |  |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  |  |  |  |  |  |
| Fish processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Production of Inputs at site** |  |  |  |  |  |  |  |  |  |  |
| Seed Production |  |  |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  |  |  |  |  |  |
| Bio-agents production |  |  |  |  |  |  |  |  |  |  |
| Bio-pesticides production |  |  |  |  |  |  |  |  |  |  |
| Bio-fertilizer production |  |  |  |  |  |  |  |  |  |  |
| Vermi-compost production |  |  |  |  |  |  |  |  |  |  |
| Organic manures production |  |  |  |  |  |  |  |  |  |  |
| Production of fry and fingerlings |  |  |  |  |  |  |  |  |  |  |
| Production of Bee-colonies and wax sheets |  |  |  |  |  |  |  |  |  |  |
| Small tools and implements |  |  |  |  |  |  |  |  |  |  |
| Production of livestock feed and fodder |  |  |  |  |  |  |  |  |  |  |
| Production of Fish feed |  |  |  |  |  |  |  |  |  |  |
| Mushroom production |  |  |  |  |  |  |  |  |  |  |
| Apiculture |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Capacity Building and Group Dynamics** |  |  |  |  |  |  |  |  |  |  |
| Leadership development |  |  |  |  |  |  |  |  |  |  |
| Group dynamics |  |  |  |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  |  |  |  |  |  |  |  |  |
| Mobilization of social capital |  |  |  |  |  |  |  |  |  |  |
| Entrepreneurial development of farmers/youths |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Agro-forestry** |  |  |  |  |  |  |  |  |  |  |
| Production technologies |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming Systems |  |  |  |  |  |  |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **TOTAL** | 12 | 134 | 53 | 137 | 20 | 10 | 30 | 150 | 70 | 220 |

**Training for Farmers and Farm Women including sponsored training programmes (Off campus)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | |
| **General** | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| **Crop Production** |  |  |  |  |  |  |  |  |  |  |
| Weed Management | 1 | 11 | 1 | 12 | 3 | 2 | 5 | 14 | 3 | 17 |
| Resource Conservation Technologies |  |  |  |  |  |  |  |  |  |  |
| Cropping Systems |  |  |  |  |  |  |  |  |  |  |
| Crop Diversification |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming |  |  |  |  |  |  |  |  |  |  |
| Micro Irrigation/Irrigation |  |  |  |  |  |  |  |  |  |  |
| Seed production |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Integrated Crop Management | 2 | 16 | 4 | 20 | 6 | 0 | 3 | 22 | 4 | 26 |
| Soil and Water Conservation |  |  |  |  |  |  |  |  |  |  |
| Integrated Nutrient Management | 4 | 37 | 8 | 45 | 8 | 1 | 9 | 45 | 9 | 54 |
| Production of organic inputs |  |  |  |  |  |  |  |  |  |  |
| Pest and disease management in soybean | 2 | 20 | 5 | 26 | 6 | 2 | 8 | 26 | 7 | 33 |
| Post Harvest Technology | 01 | 10 | 2 | 12 | 3 | 2 | 5 | 13 | 4 | 17 |
| **Horticulture** |  |  |  |  |  |  |  |  |  |  |
| **a) Vegetable Crops** |  |  |  |  |  |  |  |  |  |  |
| Production of low value and high volume crop | 3 | 37 | 28 | 65 | 11 | 5 | 16 | 48 | 33 | 81 |
| Off-season vegetables |  |  |  |  |  |  |  |  |  |  |
| Nursery raising |  |  |  |  |  |  |  |  |  |  |
| Exotic vegetables |  |  |  |  |  |  |  |  |  |  |
| Export potential vegetables |  |  |  |  |  |  |  |  |  |  |
| Grading and standardization |  |  |  |  |  |  |  |  |  |  |
| Protective cultivation |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **b) Fruits** |  |  |  |  |  |  |  |  |  |  |
| Training and Pruning |  |  |  |  |  |  |  |  |  |  |
| Layout and Management of Orchards |  |  |  |  |  |  |  |  |  |  |
| Cultivation of Fruit |  |  |  |  |  |  |  |  |  |  |
| Management of young plants/orchards |  |  |  |  |  |  |  |  |  |  |
| Rejuvenation of old orchards | 2 | - | - | - | 65 | 2 | 67 | 65 | 2 | 67 |
| Export potential fruits | 2 | - | - | - | 63 | 1 | 64 | 63 | 1 | 64 |
| 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 | 3 | 46 | 5 | 51 | 4 | 1 | 5 | 50 | 6 | 56 |
| 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 | 5 | 65 | 4 | 69 | 8 | 1 | 9 | 73 | 5 | 78 |
| Production and use of organic inputs | 4 | 57 | 3 | 60 | 5 | 1 | 6 | 62 | 4 | 66 |
| 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 |  |  |  |  |  |  |  |  |  |  |
| Importance of grass and leguminous fodder varieties | 2 | 32 | - | 32 | - | - | - | 32 |  | 32 |
| **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 |  |  |  |  |  |  |  |  |  |  |
| Value addition and nutritional recipes on Bengal gram | 1 | 13 | 1 | - | - | - | - | 13 | 1 | 14 |
| Value addition and nutritional recipes of maize | 1 | 57 | 259 | - | - | - | - | 57 | 259 | 316 |
| Groundnut decorticator for drudgery reduction | 2 | 12 | 20 | - | - | - | - | 12 | 20 | 32 |
| Health and hygiene | 2 | - | - | - | - | 80 | 80 | - | 80 | 80 |
| Poshak preparation | 1 | - | 30 | 30 | - | 8 | 8 | - | 38 | 38 |
| Use of hand gloves | 1 | 13 | - | 13 | 1 | - | 1 | 14 | - | 14 |
| **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 | 92 | 0 | 92 | 9 | 0 | 9 | 101 | 0 | 101 |
| Integrated Disease Management | 3 | 56 | 0 | 56 | 4 | 0 | 4 | 60 | 0 | 60 |
| 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 |  |  |  |  |  |  |  |  |  |  |
| Sericulture |  |  |  |  |  |  |  |  |  |  |
| Improved silkworm rearing | 8 | 104 | 25 | 129 | 5 | 4 | 9 | 109 | 109 | 29 |
| Maintenance of humidity and temperature in rearing house | 2 | 22 | 4 | 26 | 1 | - | 1 | 23 | 23 | 4 |
| Importance of soil and water testing | 11 | 35 | 4 | 39 | 103 | 10 | 113 | 138 | 138 | 14 |
| Mulberry cultivation practices and inter cropping | 3 | 35 | 8 | 43 | - | - | - | 35 | 35 | 8 |
| Importance of Incubation frame for loose DFLs | 3 | 25 | 5 | 30 | - | - | - | 25 | 25 | 5 |
| **Production of Inputs at site** |  |  |  |  |  |  |  |  |  |  |
| Seed Production |  |  |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  |  |  |  |  |  |
| Bio-agents production |  |  |  |  |  |  |  |  |  |  |
| Bio-pesticides production |  |  |  |  |  |  |  |  |  |  |
| Bio-fertilizer production |  |  |  |  |  |  |  |  |  |  |
| Vermi-compost production |  |  |  |  |  |  |  |  |  |  |
| Organic manures production |  |  |  |  |  |  |  |  |  |  |
| Production of fry and fingerlings |  |  |  |  |  |  |  |  |  |  |
| Production of Bee-colonies and wax sheets |  |  |  |  |  |  |  |  |  |  |
| Small tools and implements |  |  |  |  |  |  |  |  |  |  |
| Production of livestock feed and fodder |  |  |  |  |  |  |  |  |  |  |
| Production of Fish feed |  |  |  |  |  |  |  |  |  |  |
| Mushroom production |  |  |  |  |  |  |  |  |  |  |
| Apiculture |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Capacity Building and Group Dynamics** |  |  |  |  |  |  |  |  |  |  |
| Leadership development |  |  |  |  |  |  |  |  |  |  |
| Group dynamics |  |  |  |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  |  |  |  |  |  |  |  |  |
| Mobilization of social capital |  |  |  |  |  |  |  |  |  |  |
| Entrepreneurial development of farmers/youths |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **Agro-forestry** |  |  |  |  |  |  |  |  |  |  |
| Production technologies |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming Systems |  |  |  |  |  |  |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **TOTAL** | **74** | **795** | **416** | **850** | **305** | **120** | **422** | **1100** | **806** | **1306** |

**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 | 1 | 5 | | 1 | | 6 | | - | | 2 | | 2 | | 5 | | 3 | | 8 |
| Training and pruning of orchards |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Protected cultivation of vegetable crops |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Commercial fruit production |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Integrated farming |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Seed production |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Production of organic inputs | 1 | 5 | | 1 | | 6 | | - | | 2 | | 2 | | 5 | | 3 | | 8 |
| Planting material production |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Vermi-culture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Mushroom Production |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Bee-keeping |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Sericulture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Repair and maintenance of farm machinery and implements |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Value addition |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Small scale processing |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Post Harvest Technology |  |  | |  | |  |  | |  | |  | |  | |  | |  | |
| Tailoring and Stitching |  |  | |  | |  |  | |  | |  | |  | |  | |  | |
| Rural Crafts |  |  | |  | |  |  | |  | |  | |  | |  | |  | |
| Production of quality animal products |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Dairying |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Sheep and goat rearing |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Quail farming |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Piggery |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Rabbit farming |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Poultry production |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Ornamental fisheries |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Composite fish culture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Freshwater prawn culture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Shrimp farming |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Pearl culture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Cold water fisheries |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Fish harvest and processing technology |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Fry and fingerling rearing |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Any other (pl.specify) |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| TOTAL | 2 | 10 | | 2 | | 12 | 0 | | 4 | | 4 | | 10 | | 6 | | 16 | |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | | | | | | | | | |
| **General** | | | | | | **SC/ST** | | | | | | **Grand Total** | | | | |
| **Male** | **Female** | | **Total** | | | **Male** | | **Female** | | **Total** | | **Male** | | **Female** | | **Total** |
| Nursery Management of Horticulture crops |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Training and pruning of orchards |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Protected cultivation of vegetable crops |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Commercial fruit production |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Integrated farming |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Seed production |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Production of organic inputs |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Planting material production |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Vermi-culture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Mushroom Production |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Bee-keeping |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Sericulture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Repair and maintenance of farm machinery and implements |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Value addition |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Small scale processing |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Post Harvest Technology |  |  | |  | |  |  | |  | |  | |  | |  | |  | |
| Tailoring and Stitching |  |  | |  | |  |  | |  | |  | |  | |  | |  | |
| Rural Crafts |  |  | |  | |  |  | |  | |  | |  | |  | |  | |
| Production of quality animal products |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Dairying |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Sheep and goat rearing |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Quail farming |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Piggery |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Rabbit farming |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Poultry production |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Ornamental fisheries |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Composite fish culture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Freshwater prawn culture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Shrimp farming |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Pearl culture |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Cold water fisheries |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Fish harvest and processing technology |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Fry and fingerling rearing |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Any other (pl.specify) |  |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Integrated Pest Management | 3 | 53 | | 3 | | 56 | 0 | | 0 | | 0 | | 53 | | 3 | | 56 | |
| Integrated Disease Management | 7 | 131 | | 6 | | 137 | 12 | | 0 | | 12 | | 143 | | 6 | | 149 | |
| Sericulture |  |  | |  | |  |  | |  | |  | |  | |  | |  | |
| Mulberry cultivation practices and inter cropping | 1 | 14 | | 2 | | 16 | 1 | | - | | 1 | | 15 | | 2 | | 17 | |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | | | |
| **General** | | | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | | **Total** | | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| Productivity enhancement in field crops |  |  | |  | |  |  |  |  |  |  |  |
| Integrated Pest Management | 1 | 9 | | 1 | | 10 | 1 | 0 | 1 | 10 | 1 | 11 |
| Integrated Nutrient management |  |  | |  | |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  | |  | |  |  |  |  |  |  |  |
| Protected cultivation technology |  |  | |  | |  |  |  |  |  |  |  |
| Production and use of organic inputs |  |  | |  | |  |  |  |  |  |  |  |
| Care and maintenance of farm machinery and implements |  |  | |  | |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  | |  | |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  | |  | |  |  |  |  |  |  |  |
| Women and Child care |  |  | |  | |  |  |  |  |  |  |  |
| Low cost and nutrient efficient diet designing |  |  | |  | |  |  |  |  |  |  |  |
| Group Dynamics and farmers organization |  |  | |  | |  |  |  |  |  |  |  |
| Information networking among farmers |  |  | |  | |  |  |  |  |  |  |  |
| Capacity building for ICT application |  |  | |  | |  |  |  |  |  |  |  |
| Management in farm animals |  |  | |  | |  |  |  |  |  |  |  |
| Livestock feed and fodder production |  |  | |  | |  |  |  |  |  |  |  |
| Household food security |  |  | |  | |  |  |  |  |  |  |  |
| Any other (pl.specify) |  |  | |  | |  |  |  |  |  |  |  |
| Importance of Juvenile Hormone for uniform maturation of silkworms and quality cocoons. | 1 | 14 | | - | | 14 | 2 | - | 2 | 16 | - | 16 |
| Mulberry cultivation practice | 9 | 132 | | - | | 132 | 18 | - | 18 | 150 | - | 150 |
| Improved silk worm rearing | 18 | 180 | | - | | 180 | 18 | - | 18 | 198 | - | 198 |
| **Total** | **29** | **335** | | **1** | | **336** | **39** | **0** | **39** | **374** | **1** | **375** |

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

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

**Sponsored training programmes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No.** | **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | |
| **General** | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| **1** | **Crop production and management** |  |  |  |  |  |  |  |  |  |  |
| 1.a. | Increasing production and productivity of crops |  |  |  |  |  |  |  |  |  |  |
| 1.b. | Commercial production of vegetables |  |  |  |  |  |  |  |  |  |  |
| **2** | **Production and value addition** |  |  |  |  |  |  |  |  |  |  |
| 2.a. | Fruit Plants |  |  |  |  |  |  |  |  |  |  |
| 2.b. | Ornamental plants | 2 | 57 | - | 57 | 5 | - | 5 | 62 | - | 62 |
| 2.c. | Spices crops |  |  |  |  |  |  |  |  |  |  |
| **3.** | **Soil health and fertility management** | 2 | 56 | - | 56 | 6 | - | 6 | 62 | - | 62 |
| **4** | **Production of Inputs at site** |  |  |  |  |  |  |  |  |  |  |
| **5** | **Methods of protective cultivation** |  |  |  |  |  |  |  |  |  |  |
| **6** | **Others (pl.specify)** |  |  |  |  |  |  |  |  |  |  |
| **7** | **Post harvest technology and value addition** |  |  |  |  |  |  |  |  |  |  |
| 7.a. | Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| 7.b. | Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **8** | **Farm machinery** |  |  |  |  |  |  |  |  |  |  |
| 8.a. | Farm machinery, tools and implements |  |  |  |  |  |  |  |  |  |  |
| 8.b. | Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **9.** | **Livestock and fisheries** |  |  |  |  |  |  |  |  |  |  |
| **10** | **Livestock production and management** |  |  |  |  |  |  |  |  |  |  |
| 10.a. | Animal Nutrition Management |  |  |  |  |  |  |  |  |  |  |
| 10.b. | Animal Disease Management |  |  |  |  |  |  |  |  |  |  |
| 10.c | Fisheries Nutrition |  |  |  |  |  |  |  |  |  |  |
| 10.d | Fisheries Management |  |  |  |  |  |  |  |  |  |  |
| 10.e. | Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **11.** | **Home Science** |  |  |  |  |  |  |  |  |  |  |
| 11.a. | Household nutritional security |  |  |  |  |  |  |  |  |  |  |
| 11.b. | Economic empowerment of women |  |  |  |  |  |  |  |  |  |  |
| 11.c. | Drudgery reduction of women |  |  |  |  |  |  |  |  |  |  |
| 11.d. | Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| **12** | **Agricultural Extension** |  |  |  |  |  |  |  |  |  |  |
| 12.a. | Capacity Building and Group Dynamics |  |  |  |  |  |  |  |  |  |  |
| **Sericulture** |  |  |  |  |  |  |  |  |  |  |  |
| 1 | Mulberry cultivation practice | 9 | 132 | - | 132 | 18 | - | 18 | 150 | - | 150 |
| 2 | Improved silk worm rearing | 18 | 180 | - | 180 | 18 | - | 18 | 198 | - | 198 |

**Details of Vocational Training Programmes carried out for rural youth**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No.** | **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | |
| **General** | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| **1** | **Crop production and management** |  |  |  |  |  |  |  |  |  |  |
| 1.a. | Commercial floriculture |  |  |  |  |  |  |  |  |  |  |
| 1.b. | Commercial fruit production |  |  |  |  |  |  |  |  |  |  |
| 1.c. | Commercial vegetable production | 1 | 5 | 1 | 6 | - | 2 | 2 | 5 | 3 | 8 |
| 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) |  |  |  |  |  |  |  |  |  |  |
|  | **Total** | **1** | **5** | **1** | **6** | **-** | **2** | **2** | **5** | **3** | **8** |

V. Extension Programmes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activities** | **No. of programmes** | **No. of farmers** | **No. of Extension Personnel** | **TOTAL** |
| Field Day | 04 | 350 | 7 | 361 |
| Kisan Mela |  | 0 |  | 0 |
| Kisan Ghosthi |  | 0 |  | 0 |
| Exhibition | 01 | 0 | 0 | 1 |
| Film Show |  | 0 |  | 0 |
| Method Demonstrations | 25 | 299 | 18 | 342 |
| Farmers Seminar |  | 0 |  | 0 |
| Workshop | 02 | 0 | 0 | 2 |
| Group meetings | 47 | 954 | 27 | 1028 |
| Lectures delivered as resource persons | 75 | 1949 | 120 | 2144 |
| Newspaper coverage | 20 | 0 | 0 | 20 |
| Radio talks |  | 0 |  | 0 |
| TV talks | 1 | 0 |  | 1 |
| Popular articles | 02 | 0 | 0 | 2 |
| Extension Literature | 2 | 0 |  | 2 |
| Advisory Services | 101 | 451 | 9 | 561 |
| Scientific visit to farmers field | 189 | 845 | 55 | 1089 |
| Farmers visit to KVK | 77 | 214 | 8 | 299 |
| Diagnostic visits | 67 | 215 | 9 | 291 |
| Exposure visits | 6 | 171 | 0 | 177 |
| Ex-trainees Sammelan |  | 0 |  | 0 |
| Soil health Camp | 2 | 67 | 8 | 77 |
| Animal Health Camp |  | 0 |  | 0 |
| Agri mobile clinic |  | 0 |  | 0 |
| Soil test campaigns | 05 | 108 | 8 | 121 |
| Farm Science Club Conveners meet |  | 0 |  | 0 |
| Self Help Group Conveners meetings |  | 0 |  | 0 |
| Mahila Mandals Conveners meetings |  | 0 |  | 0 |
| Celebration of important days (specify) |  | 0 |  | 0 |
| Health campaign | 2 | 201 | 0 | 203 |
| Farmers conveyance | 1 | 0 | 0 | 1 |
| **Total** | **629** | **5824** | **269** | **6722** |

Details of other extension programmes

|  |  |
| --- | --- |
| **Particulars** | **Number** |
| Electronic Media |  |
| Extension Literature | 1000 |
| News Letter |  |
| News paper coverage |  |
| Technical Articles |  |
| Technical Bulletins |  |
| Technical Reports | 1 |
| Radio Talks |  |
| TV Talks |  |
| Animal health amps (Number of animals treated) |  |
| Populer article | 2000 |
| **Total** |  |

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

**Production of seeds by the KVKs**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Crop category | **Name of the crop** | **Variety** | **Hybrid** | **Quantity of seed**  **(qtl)** | **Value**  **(Rs)** | **Number of farmers to whom provided** |
| Cereals (crop wise) | Maize  Wheat | DWR-162 | Kaveri | 43.0  05.0 | 43000/-  15000/- | -  12 |
| Oilseeds | Soybean  Groundnut | JS-335  GPBD-4  GPBD-5  ICGV-91114 |  | 08.0  1.5  1.0  1.2 | 24,000/-  6300/-  4200/-  5040/- | 16  06  04  05 |
| Pulses | Redgram  Bengalgram | TS-3R  JG-11 |  | 4.0  2.9 | 16,000/-  17,400/- | 42  11 |
| Commercial crops | Seed cocoons | CSR Hybrid | 56.20kgs | 12684/- | 2 |  |
|  | Turmeric Yield under mulberry inter crop | Kadappa | 26kg | 3120/- | 1 |  |
| Vegetables | Bitterguard | Vivek |  | 1.0 | 1500/- | 12 |
| Flower crops | Gladiolus  Tuberos | Arjun  Shringar |  | 250 nos  0.05 | 2500/-  250/- | -  - |
| Spices |  |  |  |  |  |  |
| Fodder crop seeds |  |  |  |  |  |  |
| Fiber crops |  |  |  |  |  |  |
| Forest Species |  |  |  |  |  |  |
| Others (specify) Fodder grass | Hybrid napier | APBN-1 |  | 1200 | 36,000/- | 35 |
| **Total** |  |  |  |  | **1,71,190/-** |  |

# Production of planting materials by the KVKs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Crop category** | **Name of the crop** | **Variety** | **Hybrid** | **Number** | **Value (Rs.)** | **Number of farmers to whom provided** |
| Commercial |  |  |  |  |  |  |
| Vegetable seedlings |  |  |  |  |  |  |
| Fruits | Mango | Alphonso |  | 2000 | 60,000 | 30 |
|  | Jamun | Seedlings |  | 1000 | 5000 | - |
|  | Guava | Seedlings |  | 1000 | 5000 | - |
| Ornamental plants | Gladiolus |  |  | 250 | 2500 | - |
|  | Tuberos |  |  | 5kgs | 250 | - |
| Medicinal and Aromatic |  |  |  |  |  |  |
| Plantation |  |  |  |  |  |  |
| Spices |  |  |  |  |  |  |
| Tuber |  |  |  |  |  |  |
| Fodder crop saplings |  |  |  |  |  |  |
| Forest Species |  |  |  |  |  |  |
| Others(specify) |  |  |  |  |  |  |
| **Total** |  |  |  |  | **72,750/-** |  |

**Production of Bio-Products**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Bio Products** | **Name of the bio-product** | **Quantity** | **Value (Rs.)** | **No. of Farmers** |
| **Kg** |
| Bio Fertilizers | Vermicompost | 8.250 t | 16500 | 6 |
| Bio-pesticide |  |  |  |  |
| Bio-fungicide |  |  |  |  |
| Bio Agents | Earthworms,  Micromus | 14kg  6000 No’s | 1400  600 | 14  14 |
| Others |  |  |  |  |
| **Total** |  |  |  |  |

# Production of live stockand related enterprise materials

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Particulars of Live stock | **Name of the breed** | **Number** | **Value (Rs.)** | **Number of farmers to whom provided** |
| **Dairy animals** |  |  |  |  |
| Cows |  |  |  |  |
| Buffaloes | Pandrapuri& Surthi | 02 | 60,000/- | - |
| Calves | Pandrapuri& Surthi | 03 | 35,000/- | - |
| Others (Pl. specify) |  |  |  |  |
| **Poultry** |  |  |  |  |
| Broilers |  |  |  |  |
| Layers |  |  |  |  |
| Duals (broiler and layer) |  |  |  |  |
| Japanese Quail |  |  |  |  |
| Turkey |  |  |  |  |
| Emu |  |  |  |  |
| Ducks |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |
| **Piggery** |  |  |  |  |
| Piglet |  |  |  |  |
| Others (Pl.specify) |  |  |  |  |
| **Fisheries** |  |  |  |  |
| Fingerlings |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |
| **Total** |  |  |  |  |

**VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS2011-12**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Samples | **No. of Samples** | **No. of Farmers** | **No. of Villages** | **Amount realized (Rs.)** |
| Soil | 281 | 206 | 21 | 54,400/- |
| Water | 12 | 50 | 38 | 2500/- |
| Plant | - | - | - | - |
| Manure | - | - | - | - |
| Others (pl.specify) | - | - | - | - |
| **Total** | 293 | 256 | 59 | 56,900/- |

VIII. SCIENTIFIC ADVISORY COMMITTEE

|  |
| --- |
| **Number of SACs conducted** |
|  |

**IX. NEWSLETTER**

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

**X. RESEARCH PAPER PUBLISHED**

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

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

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

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