**PROFORMA FOR ANNUAL REPORT 2013-14**

**(FOR THE PERIOD APRIL 2013 TO MARCH 2014)**

**KRISHI VIGYAN KENDRA (TUKKANATTI, 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 2014)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 44820 | 9000 | 06.04.2004 | Permanent | Others |
| 2 | SMS | D C Chougala | SMS | M | Plant Protection | M.Sc. (Agri. Plant Protection) | 15600-39100 | 24940 | 6600 | 01.03.1998 | Permanent | Others |
| 3 | SMS | M N Malawadi | SMS | M | Agronomy | M.Sc. (Agronomy) | 15600-39100 | 20440 | 5400 | 06.04.2004 | Permanent | SC |
| 4 | SMS | Vacant | SMS | F | Home Science | Nil | Nil | Nil | Nil | Nil | Permanent | Nil |
| 5 | SMS | Adarsha H S | SMS | M | Fisheries | M.Sc. (Fisheries) | 15600-39100 | 16880 | 5400 | 14.11.2011 | Permanent | OBC |
| 6 | Against SMS | S S Sharma | Against SMS | M | Horticulture | M.Sc. (Horticulture) | 9300-34800 | 15590 | 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 | 18740 | 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 | 12060 | 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 | 18270 | 4600 | 29.11.1996 | Permanent | Others |
| 11 | Assistant | Mahantesh M | Assistant | M | Assistant | B.com  (M.Com) | 9300-34800 | 12060 | 4200 | 01.05.2008 | Permanent | OBC |
| 12 | Jr. Stenographer | Basavaraj P Ambiger | Store Keeper | M | Store Keeper | B.A | 5200-20200 | 9510 | 2000 | 20.03.1995 | Permanent | OBC |
| 13 | Driver | L. S. Pujari | Driver | M | Driver | SSLC | 5200-20200 | 9510 | 2000 | 20.03.1995 | Permanent | OBC |
| 14 | Driver | K K Shidbagol | Driver | M | Driver | SSLC | 5200-20200 | 9340 | 2000 | 16.11.1996 | Permanent | OBC |
| 15 | Supporting staff | G S Shingadi | Peon | M | Peon | SSLC | 5200-20200 | 82220 | 1900 | 20.03.1995 | Permanent | OBC |
| 16 | Supporting staff | A M Koli | Watchman | M | Watchman | SSLC | 5200-20200 | 8220 | 1900 | 20.06.1995 | Permanent | OBC |

**1.6. Total land with KVK (in ha) : 22 ha**

|  |  |  |
| --- | --- | --- |
| **S. No.** | **Item** | **Area (ha)** |
| 1 | Under Buildings | 0.15 |
| 2. | Under Demonstration Units | 0.07 |
| 3. | Under Crops | 4.67 |
| 4. | Orchard/ Agro-forestry | 14.27 |
| 5. | Fodder development | 2.40 |
| 6 | Open well, Bore well & Roads | 0.44 |
|  | **Total** | **22.0** |

**1.7. Infrastructural Development:**

1. **Buildings**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.**  **No.** | **Name of building** | **Source of**  **funding** | **Stage** | | | | | |
| **Complete** | | | **Incomplete** | | |
| **Completion**  **Date** | **Plinth area (Sq.m)** | **Expenditure**  **(Rs.)** | **Starting Date** | **Plinth area**  **(Sq.m)** | **Status of construction** |
| 1 | Administrative  Building | 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 | | | | | | | |
|  | Poly House | ICAR | 2006 | 75.0 | 1,00,000 | nil | nil | nil |
| Cattle shed | ICAR | 2006 | 90.0 | 87,000 | nil | nil | nil |
| Fish culture tank | DST, New Delhi | 2006 | 23.60 | 1,20,000 | nil | nil | nil |
| Ornamental Fish | NFDB, Hyderabad | 2008 | 4.0 | 10,000 | nil | nil | nil |
| Guppy breeding | Host org. | 2006 | 4.0 | 15,000 | nil | nil | nil |
| Vermi compost | Host org. | 2001 | 19.00 | 3.000 | nil | nil | nil |
| Fencing | ICAR | 1996 |  | 1,10,000 | nil | nil | nil |
| Threshing floor | ICAR | 2003 | 144.0 | 50,000 | nil | nil | nil |
| Threshing yard | ICAR | 2010-11 |  | 2,00000 | nil | nil | nil |
| Sericulture Demo unit | ICAR | 2010-11 | 92.0 | 70,000 | nil | nil | nil |
| Compound wall | ICAR | 2010-11 | 180M | 6,00000 | nil | nil | Nil |
| Vehicle cum Impliment shed | ICAR | 2011-12 | 210.0 | 2,00000 | nil | nil | Nil |
| Portable Carp hatchery | ICAR | 2010-11 | 2.88 | 2,25,000 | 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 | 92384 | Good Condition |
| Motor cycle (Suzuki) | December 1995 | 35,652 | 2,24,164 | Under Major Repair |
| Motor cycle (Yamaha) | February 1996 | 38,967 | 2,32,749 | Under Major Repair |

**C) Equipments & AV aids**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Name of Equipments** | **Date of purchase** | **Cost (Rs. In lakhs)** | **Present status** |
| 1 | Tractor | 09.03.1995 | 205706/- | To be replaced |
| 2 | Public Addressing system | 15.03.1995 | 8603/- | To be replaced |
| (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/- | Not in use |
| 4 | Over head projector | 16.03.1995 | 15015/- | Not in use |
| 5 | Table Chief Executive | 17.03.1995 | 6880/- | To be replaced |
| 6 | Table Junior Executive | 17.03.1995 | 4965/- | To be replaced |
| 7 | Table Writing | 17.03.1995 | 16085/- | To be replaced |
| 8 | Chairs with arms | 17.03.1995 | 5946/- | To be replaced |
| 9 | Chairs with arms and Cussions | 17.03.1995 | 2000/- | To be replaced |
| 10 | Chairs without arms | 17.03.1995 | 4578/- | To be replaced |
| 11 | Cabinet for files | 17.03.1995 | 5334/- | To be replaced |
| 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/- | To be replaced |
| 16 | Tractor Trolley | 30.12.1995 | 71364/- | To be replaced |
| 17 | Disc plough | 30.12.1995 | 22150/- | To be replaced |
| 18 | Type Writer – Kannada | 03.02.1996 | 11400/- | Not in use |
| 19 | Motor Cycle | 24.02.1996 | 39000/- | To be replaced |
| 20 | Cycle | 11.03.1996 | 1550/- | To be replaced |
| 21 | Camera (K-1000 Pentium with vivital Flash) | 13.03.1996 | 10800/- | To be replaced |
| 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/- | To be replaced |
| 25 | Chair typist revolving | 06.03.1996 | 1109/- | To be replaced |
| 26 | Table Steel | 06.03.1996 | 8138/- | To be replaced |
| 27 | Table Supdt. | 06.03.1996 | 3388/- | To be replaced |
| 28 | Table typist | 06.03.1996 | 1897/- | To be replaced |
| 29 | Table writing steel | 06.03.1996 | 8472/- | To be replaced |
| 30 | Cabinet files steel | 06.03.1996 | 5313/- | To be replaced |
| 31 | Slotted angel rack steel | 06.03.1996 | 2638/- | To be replaced |
| 32 | Slotted angel rack steel | 06.03.1996 | 2250/- | To be replaced |
| 33 | Stool Steel | 06.03.1996 | 544/- | To be replaced |
| 34 | Color TV | 27.03.1996 | 20195/- | To be replaced |
| 35 | Godrej Refrigerator 165 ltr | 28.03.1996 | 9000/- | To be replaced |
| 36 | 5 HP Mono block Pumpset | 29.03.1996 | 8000/- | To be replaced |
| 37 | Slide projector | 18.03.1996 | 15000/- | To be replaced |
| 38 | Boards 3 panel /4 stand pinning type display | 30.03.1996 | 11233/- | To be replaced |
| 39 | Sewing machine | 13.03.1997 | 6000/- | To be replaced |
| 40 | Floor Fan | 31.03.1997 | 1700/- | To be replaced |
| 41 | Oven | 31.03.1998 | 2600/- | To be replaced |
| 42 | Poly set Plastic Chairs | 31.03.1998 | 42000/- | To be replaced |
| 43 | Chair Wooden with Cushion | 30.03.1999 | 7000/- | To be replaced |
| 44 | Ceiling fan | 31.03.1999 | 9400/- | To be replaced |
| 45 | Ceiling fan | 31.03.1999 | 10200/- | To be replaced |
| 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/- | To be replaced |
| 55 | Computer with Printer HP, Scanner | 18.06.2004 | 75000/- | To be replaced |
| 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/- | Under Repair |
| 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/- | To be replaced |
| 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/- | Under Repair |
| 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 |
| **Plant Health Diagnostic Centre** | | | | |
| 150 | Laminar Air Flow (BTI-31 HM-3, Size:3x2x2) | 24-12-2011 | 76245 | OK |
| 151 | Kent Elite Ro water purifier | 28-03-2012 | 27719 | OK |
| 152 | 1000,Beaker,cap.100 ml | 31-03-2012 | 550 | OK |
| 153 | 1000, Beaker cap. 250 ml | 31-03-2012 | 600 | OK |
| 154 | 1000, Beaker cap. 500 ml | 31-03-2012 | 970 | OK |
| 155 | 1000, Beaker cap. 1000 ml | 31-03-2012 | 975 | OK |
| 156 | 4980,Conical flask, Cap.100 ml | 31-03-2012 | 1500 | OK |
| 157 | 4980,Conical flask, Cap.250 ml | 31-03-2012 | 2375 | OK |
| 158 | 4980,Conical flask, Cap.500 ml | 31-03-2012 | 6500 | OK |
| 159 | 4980,Conical flask, Cap.1 lit. | 31-03-2012 | 2250 | OK |
| 160 | 3022, Measuring cylinder, Cap. 25ml | 31-03-2012 | 250 | OK |
| 161 | 3022, Measuring cylinder, Cap. 100 ml | 31-03-2012 | 315 | OK |
| 162 | 3022, Measuring cylinder, Cap. 500 ml | 31-03-2012 | 755 | OK |
| 163 | 3022, Measuring cylinder, Cap. 1000 ml | 31-03-2012 | 1145 | OK |
| 164 | 3166, Petri dishes, Size: 100x17 mm | 31-03-2012 | 9500 | OK |
| 165 | 7060, Pipettes, Cap. 1ml | 31-03-2012 | 425 | OK |
| 166 | 7060, Pipettes, Cap. 2ml | 31-03-2012 | 475 | OK |
| 167 | 7060, Pipettes, Cap. 5ml | 31-03-2012 | 525 | OK |
| 168 | 7060, Pipettes, Cap. 10 ml | 31-03-2012 | 550 | OK |
| 169 | Test sieves: Secor make, 8”dia, BSS 4 | 31-03-2012 | 750 | OK |
| 170 | Test sieves: Secor make, 8”dia, BSS 5 | 31-03-2012 | 750 | OK |
| 171 | Test sieves: Secor make, 8”dia, BSS 6 | 31-03-2012 | 750 | OK |
| 172 | Test sieves: Secor make, 8”dia, BSS 7 | 31-03-2012 | 750 | OK |
| 173 | Test sieves: Secor make, 8”dia, BSS 8 | 31-03-2012 | 750 | OK |
| 174 | Test sieves: Secor make, 8”dia, BSS 10 | 31-03-2012 | 750 | OK |
| 175 | Test sieves: Secor make, 8”dia, BSS 12 | 31-03-2012 | 750 | OK |
| 176 | Test sieves: Secor make, 8”dia, BSS 14 | 31-03-2012 | 750 | OK |
| 177 | Test sieves: Secor make, 8”dia, BSS 16 | 31-03-2012 | 750 | OK |
| 178 | Test sieves: Secor make, 8”dia, BSS 22 | 31-03-2012 | 750 | OK |
| 179 | Test sieves: Secor make, 8”dia, BSS 18 | 31-03-2012 | 750 | OK |
| 180 | Test sieves: Secor make, 8”dia, BSS 25 | 31-03-2012 | 750 | OK |
| 181 | Test sieves: Secor make, 8”dia, BSS 30 | 31-03-2012 | 750 | OK |
| 182 | Test sieves: Secor make, 8”dia, BSS 36 | 31-03-2012 | 750 | OK |
| 183 | Test sieves: Secor make, 8”dia, BSS 44 | 31-03-2012 | 750 | OK |
| 184 | Test sieves: Secor make, 8”dia, BSS 52 | 31-03-2012 | 750 | OK |
| 185 | Test sieves: Secor make, 8”dia, BSS 60 | 31-03-2012 | 750 | OK |
| 186 | Test sieves: Secor make, 8”dia, BSS 72 | 31-03-2012 | 750 | OK |
| 187 | Test sieves: Secor make, 8”dia, BSS 85 | 31-03-2012 | 750 | OK |
| 188 | Test sieves: Secor make, 8”dia, BSS 100 | 31-03-2012 | 750 | OK |
| 189 | Test sieves: Secor make, 8”dia, BSS 120 | 31-03-2012 | 950 | OK |
| 190 | Test sieves: Secor make, 8”dia, BSS 150 | 31-03-2012 | 980 | OK |
| 191 | Test sieves: Secor make, 8”dia, BSS 170 | 31-03-2012 | 1250 | OK |
| 192 | Test sieves: Secor make, 8”dia, BSS 200 | 31-03-2012 | 1490 | OK |
| 193 | Lid & Pan for above | 31-03-2012 | 1400 | OK |
| 194 | Hemocytometer | 31-03-2012 | 3000 | OK |
| 195 | SO16, Lacto Phenol cotton blue -500ml | 31-03-2012 | 417 | OK |
| 196 | S015, Lacto phenol | 31-03-2012 | 381 | OK |
| 197 | Hamilton Syringe Type (50 l (Hand held micro applicator Rs) | 30-03-2012 | 4500 | OK |
| 198 | Bottle Top dispenser Variable Volume 0.2-1 M1 EM-TECHOLOR brand | 30-03-2012 | 22029 | OK |
| 199 | Trianocular with zoom Microscope with digital camera with 12 MP onward | 30-03-2012 | 165000 | OK |
| 200 | Binocular compound digital microscope with camera- R\*7 | 30-03-2012 | 95000 | OK |
| 201 | Elisa plates Non skirted 96 well pack of 25 plates | 30-03-2012 | 4500 | OK |
| 202 | Elisa plates skird 96 well 2 ml pack of 25 plates | 30-03-2012 | 5700 | OK |
| 203 | Hand lenses 10X | 30-03-2012 | 500 | OK |
| 204 | Hand lenses 20X | 30-03-2012 | 700 | OK |
| 205 | Thermo Hygrometer Dial type B Darigo German make | 30-03-2012 | 2250 | OK |
| 206 | Inoculation needles with Nicrom loop | 30-03-2012 | 900 | OK |
| 207 | Needle SS304 | 30-03-2012 | 600 | OK |
| 208 | Forceps different types SS 8” | 30-03-2012 | 510 | OK |
| 209 | Forceps different Types SS 6” | 30-03-2012 | 570 | OK |
| 210 | Spirit lamp SS | 30-03-2012 | 190 | OK |
| 211 | Spirit lamp Glass | 30-03-2012 | 250 | OK |
| 212 | Magnetic Stirrer with Hot plate-DMS-1MLH | 31-03-2012 | 3990 | OK |
| 213 | Water Bath UWB-18 | 31-03-2012 | 7410 | OK |
| 214 | BOD Incubator, DCI-03S | 31-03-2012 | 68875 | OK |
| 215 | Deep Freezer-20deg C, EFS340(EUROPE) | 31-03-2012 | 82084 | OK |
| 216 | Micro test Plates, Cat#941296 | 31-03-2012 | 12825 | OK |
| 217 | Slide Box, Cat#481020 | 31-03-2012 | 570 | OK |
| 218 | Test tubes, Cat #9800U02 | 31-03-2012 | 997 | OK |
| 219 | Test tube, Cat# 9800U06 | 31-03-2012 | 1330 | OK |
| 220 | Test Tube Cat#9800U08 | 31-03-2012 | 997 | OK |
| 221 | Test Tube, Cat#9800U10 | 31-03-2012 | 2042 | OK |
| 222 | #4700880-Finnpipette Fx Glp-Kit-2(0.2-1000 ml) | 31-03-2012 | 26030 | OK |
| 223 | Internal Calibration Weighing scale, HTR 220E | 31-03-2012 | 88692 | OK |
| 224 | Petri dishes, Cat#3165077 | 31-03-2012 | 7125 | OK |

**1.8. Details SAC meeting conducted in 2013-14: Nil**

**PART II - DETAILS OF DISTRICT**

2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

|  |  |
| --- | --- |
| Farming system/enterprise | |
| **Kharif crops** | Maize, Sugarcane, Soybean, Jowar, Bajra, Greengram, Red gram, Horse gram, Cowpea, Sunflower, Chilli, Cotton, Tobacco, Paddy, 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, Chilli, Coriander, Onion, Garlic, Carrot, Radish, Palak, Menthe, Sepu, Beans, Bhendi, cluster bean |
| **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, Groundnut + Sunflower, 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 :  Maize, Jowar, Green gram, Horse gram, Red gram, Black gram, Groundnut, Sunflower, Cotton, Vegetables  Kharif-Irrigated:  Maize, Sugarcane, Soybean, Sunflower, Hybrid cotton, Turmeric  Rabi :  Jowar, Wheat, Bengal gram, Safflower, Sunflower  Rabi/Summer : Irrigated Sugarcane, Sunflower, Wheat, Kapali wheat , cotton,  groundnut | Bajra + Red gram  Groundnut + Red gram  Groundnut + Sunflower  Bajra + Green gram  Cotton + Chilli  Mono cropping  Rabi Jowar + Bengal gram  Wheat + Safflower + Coriander  Safflower + Bengal gram  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  Maize, soybean Paddy, Jowar, Potato, Peas, Groundnut, Green gram, Onion and Sunflower, Tobacco, Chilli, Cotton  Kharif Irrigated  Sugarcane, maize, cotton, Chilli,Onion, soybean  Rabi-Dry land  Wheat, Jowar, Bengal gram, Sunflower  Rabi irrigated  Sugarcane, Jowar, Wheat Bengalgram | Maize + Cowpea  Chilli + Groundnut  Jowar + Red gram  Sunflower + Groundnut  Chilli + Tobacco  Cotton + Chilli  Jowar + Bengal gram  Summer –Sugarcane, Groundnut, Soybean, Maize, Cotton,  Safflower + Bengal gram  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

|  |  |  |
| --- | --- | --- |
| Sl. 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.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 |
| June 2013 | 204 | 26.30 | 20.93 | 92.18 |
| July 2013 | 621 | 24.14 | 20.64 | 95.76 |
| August 2013 | 164 | 25.80 | 24.40 | 91.03 |
| September 2013 | 222 | 27.25 | 20.73 | 98.38 |
| October 2013 | 56 | 27.92 | 20.70 | 82.12 |
| November 2013 | 0 | 27.40 | 18.28 | 70.78 |
| December 2013 | 0 | 27.48 | 15.30 | 67.23 |
| January 2014 | 0 | 28.60 | 16.90 | 68.47 |

\* CRIDA, Hyderabad

* 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** |
| **Inland Fisheries Resources**  *Tanks*  Reservoirs  Rivers  Waterlogged and alkaline, saline land | 3611 ha  22626 ha  475 Kms of river stretch  8 No.s  >15000 ha (under utilized) | 6678 metric tons  (Dept. of Fisheries, (Belgaum) | 700-800kg/ha/yr |

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

* 1. District profile has been **Updated** for 2013-14 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 | Athani | Shegunashi | 1 | Sugarcane | Increased production cost  Untimely planting of canes  Leaf Chlorosis | Nursery raising ,Zinc and Iron Management |
| Telasang | Adahalli and Kohalli | 1 | Redgram | Use of farm saved seeds (Gullyal) and long durated (180-190days)  No seed treatment  Less application of organic manures, Sulphur, Pod borer infestation and wilt diseases incidence | ICM |
| Kohalli, Katageri | 1 | Redgram | Lack of knowledge about soil testing & Improper RDF management in mulberry and field crops. | Importance of soil testing in red gram |
| 2 | Athani and Gokak | Athani and Koujalgi | Sankratti and Betageri | 1 | Bengal gram | Use of farm saved A-1 seeds ,  No Seed treatment with biofertiliser, Helicoverpa infestation Wilt disease incidence | ICM |
| Hulagabali and Betageri | 1 | Sugarcane | Increased production cost  Untimely planting of canes  Leaf Chlorosis | Nursery raising ,Zinc and Iron Management |
| 3 | Chikkodi | Nagara munnoli | Nagara munnoli, Donawad and Karagaon | 1 | Maize | Chlorosis, stunted growth and incomplete grain filling in cobs  Small grains due to premature drying of leaves due to Turrsicum blight, rust disease | Integrated Nutrient (Zn & Fe) and disease (Blight and & rust) management in Maize |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | Gokak | Arabhavi | Shindikurbet | 1 | Cabbage | Small heads due to black rot of cabbage and causes low yield | Integrated disease (Black rot) management in cabbage |
| 3 | Tomato | Low yield due to micronutrient deficiency, early blight, white fly, thrips, leaf minor | ICM in tomato |
| Gokak | Jamunal, Gilihosur | 3 | Mulberry | Leaf chlorosis due to nutrient deficiency in leaves caused low weight, yield and shell % in cocoon | Promotion of PHOSHAN multi- nutrient foliar spray to mulberry |
| Jamunal | 3 | mulberry | Lack of knowledge in soil testing & Improper RDF management in mulberry | soil test based nutrient management in mulberry |
| 3 | mulberry | Low leaf quality and yield in mulberry | Mulberry leaf production technology |
| Bilakundi | 2 | mulberry | Lack of knowledge in soil testing & Improper RDF management in mulberry | Importance of soil test based nutrient management in mulberry & economics of sericulture |
| 2 | sericulture | Poor knowledge about sericulture economics and to adopt it as microenterprise | Motivation to adopt sericulture enterprise |
| Rajapur | 3 | mulberry | Poor economic returns and beneficial exploitation of inter row spacing in mulberry under paired row. | Promotion of turmeric as intercrop in mulberry |
| Gokak | 1 | mulberry | Snail infestation in mulberry | Integrated management of snail in mulberry |
| Gilihosure pudakalkatti) | 3 | mulberry | Poor economic returns and beneficial exploitation of inter row spacing in mango orchard | Importance of mulberry as intercrop in mango orchard |
| 5 | Gokak,  Raibgh,  Athnai | Naganur and Harugere | Naganur, Harugere,  Koligudda | 2 | Carps- inland fisheries | Low productivity of common carp | Rearing of amur common carp replacing local common carp |
| 6 | Hukkeri | Hukkeri | Hosur | 1 | Tomato | Low yield due to micronutrient deficiency, early blight, white fly, thrips, leaf minor | ICM in tomato |
| Nerli, Ammanagi | 1 | Silkworm | Low quality of existing breed (PM X CSR2) | FC1xFC2 silkworm breeds demonstration. |
| Ammanagi | 1 | sericulture | Low quality and yield in cocoons | Adoption of integrated crop management technologies in sericulture |
| Sankeshwar | Nerali & Kochari | 1 | Soybean | Low yield, improper nutrient management, Destruction of foliage and small pod due to insect and diseases causing yield loss | Integrated crop management -nutrient & defoliators management with rust resistant variety use |
| 7 | Hukkeri and Raibag | Ghodageri and Itnal | Ghodgeri and Itnal | 1 | Carps- inland fisheries | Non availability of advanced carp fingerlings, natural predation due to small sized seed stocking and hence poor yield | Production and rearing of stunted fingerlings |
| 8 | Raibag | Kudachi | Itnal | 1 | Banana | Low yield due to micronutrient deficiency, leaf spot | ICM in banana |
| Itnal,  Sausuddi | 1 | Turmeric | Water shortage in January onwards | Short duration (210 days) variety – Pratibha |
| Bastawad | 1 | Turmeric | High seed cost | Propagation of turmeric saplings through finger cuttings |
| Raibag | Biradi, Bekkeri, Nilagi, Nandikurali, Raibag, Budihal, Nidagundi, Byakud | 1 | Mulberry | Lack of knowledge in soil testing & Improper RDF management in mulberry | soil test based nutrient management in mulberry |
| 9 | Raibag and Athani | Harugeri | Koligudda, Harugeri,  Shegunasi | 1 | Carps- inland fisheries | Cannibalism of carp seeds by tilapia | Assessment of compatibility of Pangasius in tilapia infested tanks |

2.9 Priority thrust areas

|  |  |
| --- | --- |
| **S. No** | **Thrust area** |
| 1 | Integrated crop management in Red gram, soybean, Maize, Bengal gram, Banana, tomato and mulberry |
| 2 | Iron and Zinc management in Sugarcane, maize |
| 3 | Promotion of new varieties JG-11 in Bengal gram and TS-3R in Redgram, Pratibha, FC1xFC2 silkworm breeds, PHOSHAN multi-nutrient foliar spray to mulberry |
| 4 | Promotion of Nursery raising in Sugarcane |
| 5 | Propagation technique in turmeric through finger cuttings |
| 6 | Integrated disease (Black rot) management in cabbage |
| 7 | Promotion of intercrops in paired row of sugarcane and mulberry |
| 8 | Integrated pest management in field crops, vegetables, mango and mulberry |
| 9 | Motivation al training in sericulture |
| 10 | Production and rearing of stunted fingerlings |
| 11 | Compatibility and survivability of Pangasius species in tilapia infested tanks. |
| 13 | Higher productivity of Amur common carp |

**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** |
| 5 | 5 | 21 | 21 | 12 | 12 | 115 | 115 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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** |
| 80 | 82 | 2830 | 3138 | 2000 | 2078 | 15000 | 18580 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Seed Production (Qtl.)** | | **Planting materials (Nos.)** | |
| **5** | | **6** | |
| **Target** | **Achievement** | **Target** | **Achievement** |
| Wheat – 5.0 qtls | Wheat – 5.0 qtls | Mango grafts – 2266 | Mango grafts – 2266 |
| Soybean – 9.0 qtls | Soybean – 9.0 qtls | Guava Grafts -1106 | Guava Grafts -1106 |
| Horse gram -2.4 qtls | Horse gram -2.4 qtls | Guava seedlings -500 | Guava seedlings -500 |
| Red gram- 4.29 qtls | Red gram- 4.29 qtls | Jamun seedlings -200 | Jamun seedlings -200 |
| 1tonne Pratiba variety turmeric rhizome for intercropping in mulberry | 2quantle Pratiba variety turmeric rhizome for intercropping in mulberry | 1lakh mulberry seedlings at Gilihosur | 50,000 V-1 variety seedlings at farmers field and distributed to another farmer |

|  |  |  |  |
| --- | --- | --- | --- |
| **Livestock, poultry strains and fingerlings (No.)** | | **Bio-products (Kg)** | |
| **7** | | **8** | |
| **Target** | **Achievement** | **Target** | **Achievement** |
| Buffaloes -02 | Buffaloes -02 | Vegetable special – 274 kgs | Vegetable special – 274 kgs |
| Calf - 01 | Calf - 01 | Liquid Fertilizer – 120 Lits | Liquid Fertilizer – 120 Lits |
|  |  | VAM – 760.33 kgs | VAM – 760.33 kgs |
|  |  | Vermicompost – 5000 kgs | Vermicompost – 2000 kgs |
| Fisheries | Carp fingerlings | 3000 Nos | 3000 Nos |
|  | Carp edible fish | 10 kgs | 7kgs |
|  | Ornamental fish | 1500 Nos | 840 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** | |
| **1.** | ICM | Redgram | Use of farm saved seeds (Gullyal) and long durated (180-190days)  No seed treatment  Less application of organic manures, Sulphur,  Pod borer infestation - and wilt diseases incidence | - | ICM | 03 | 01 | - | 08 | Seeds: 0.5 | - | - | Traps:  54  Lures: 120 | Tricoderm-2.0  Rhizobium-2.0  PSB-2.0, |
| 2. | Nursery raising , Zinc and Iron Manage ment | Sugarcane | Increased production cost  Untimely planting of canes  Leaf Chlorosis | - | SSI with Zinc and Iron Management in Sugarcane | 04 | 02 | - | 09 | - | - | - | - | coco peat 420kgs |
| 3. | ICM | Bengalgram | Use of farm saved A-1 seeds  No Seed treatment Helicoverpa infestation Wilt disease incidence | - | ICM | 2 | - | - | 6 | Seeds: 2.5. | - | - | - | Tricoderm:-2.0  Rhizobium:-5.0  PSB :5.0 |
| 4. | Nursery raising ,  Zinc and Iron Management | Sugarcane | Increased production cost  Untimely planting of canes  Leaf Chlorosis | - | SSI-PRO TRAY Seedlings &Zinc and Iron Management in Sugar cane | 2 | - | - | 3 | - | - | - | - | Coir pith:- 1250kgs |
| 5 | ICM | Banana | Low yield | - | ICM in banana | 2 | - | - | 12 | - | - | - | - | - |
| 6 | ICM | Tomato | Low yield | - | ICM in tomato | 2 | - | - | 4 | - | - | - | - | - |
| 7 | ICM | Turmeric | Water shortage after January | Assessment of short duration variety-Pratibha. | - | 2 | - | - | 8 | 2 Qtl. | - | - | - | - |
| 8 | ICM | Turmeric | High seed cost | Assessment of finger cuttings for propagation of turmeric | - | 2 | - | - | 10 | - | - | - | - | - |
| 9 | Integrated disease (Black rot) management in cabbage | Cabbage | Small heads due to black rot of cabbage and causes low yield | Assessment of IDM practices against black rot of cabbage | - | 1 | - | - | 9 | - | - | - | - | - |
| 10 | Integrated crop management -nutrient & defoliators management with rust resistant variety use | Soybean | Low yield, improper nutrient management, Destruction of foliage and small pod due to insect and diseases causing yield loss | - | ICM in soybean | 2 | - | - | 17 | - | - | - | - | - |
| 11 | Integrated Nutrient (Zn & Fe) and disease (Blight and & rust) management in Maize | Maize | Chlorosis, stunted internodes and incomplete grain filling in cobs  Small grains due to premature drying of leaves due to Tursicum blight, maydis blight, rust disease | - | Zinc, Ferrous + IDM in maize | 1 | - | - | 11 | - | - | - | - | - |
| 12 | PHOSHAN multi- nutrient foliar spray to mulberry | Mulberry | Nutritional deficiency in leaves caused low yield, weight and shell % in cocoon | **-** | Promotion of PHOSHAN multi-nutrient foliar spray to mulberry | 5 | **-** | **-** | 19 | - | - | - | - | - |
| 13 | FC1x FC2 silkworm breed. | Silkworm | Low quality of existing breed (PM X CSR2) | - | FC1xFC2 silkworm breeds demonstration | 1 | - | - | 7 | - | - | - | - | - |
| 14 | Production and rearing of stunted fingerlings | Fisheries | Non availability of advanced carp fingerlings, natural predation due to small sized seed stocking leading to poor yield | Assessment of productivity of stunted fingerlings | **-** | 1 | - | 1 | 18 | - | - | 15000 | **-** | **-** |
| 15 | Assessment of compatibility of Pangasius in tilapia infested tanks | Fisheries | Cannibalism of carp seeds by tilapia | Assessment of compatibility and survivality of Pangasius species in tilapia infested tanks. | - | - | - | 1 | 13 | - | - | 12000 | - | - |
| 16 | Rearing of amur common carp replacing local common carp | Fisheries | Low productivity of common carp | - | Amur common carp for higher productivity | - | - | - | 21 | - | - | 8000 | - | - |

**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 | ICM in Redgram | ARS Gulbarga & UAS Dharwad | Redgram | - | 1 | 2 | Rural Youth -1 |
| 2 | SSI with Zinc and Iron Management in Sugarcane | UAS Dharwad | Sugarcane | - | 1 | 4 | Rural Youth -2 |
| 3 | ICM in Bengal gram | ARS Gulbarga & UAS Dharwad | Bengal gram | - | 1 | 2 | - |
| 4 | SSI with Zinc and Iron Management in Sugarcane | & UAS Dharwad | Sugarcane | - | 1 | 2 | - |
| 5 | Assessment of short duration variety-Pratibha. | IISR- Calicut | Turmeric | 1 | - | 2 | 8 |
| 6 | Assessment of finger cuttings for propagation of turmeric. | Innovative farmers | Turmeric | 1 | - | 2 | 10 |
| 7 | ICM in banana | IIHR | Banana | - | 1 | 2 | 12 |
| 8 | ICM in tomato | IIHR | Tomato | - | 1 | 2 | 4 |
| 9 | IDM practices against black rot | UASD & TNAU | Cabbage | 1 | - | 1 | 9 Extension activities |
| 10 | Integrated crop management | UASD | Soybean | - | 1 | 2 | 17 Extension activities |
| 11 | Zinc, Ferrous + IDM | UASD | Maize | - | 1 | 1 | 11 Extension activities |
| 12 | Promotion of PHOSHAN multi-nutrient foliar spray to mulberry | CSR&TI Mysore | Mulberry | - | 1 | 5 | 19 Extension activities |
| 13 | FC1xFC2 silkworm breeds demonstration. | CSR&TI Mysore | Silkworm | - | 1 | 1 | 7 Extension activities |
| 14 | Importance of soil testing in mulberry and field crops | UAS Dharwad | Mulberry | - | - | 1 | - |
| 15 | Importance of soil testing in red gram | UAS Dharwad | Redgram | - | - | 1 | - |
| 16 | Importance of soil testing in field crops & economics of sericulture | UAS Dharwad | Sericulture | - | - | 1 | - |
| 17 | Turmeric intercropping in mulberry | UAS Dharwad | Mulberry | - | - | 1 | - |
| 18 | INM in mulberry | UAS Dharwad | Mulberry | - | - | 1 | - |
| 19 | Integrated Snails management in mulberry | UAS Dharwad | Mulberry | - | - | 1 | - |
| 20 | Motivation in sericulture | UAS Dharwad | Sericulture | - |  | 1 | - |
| 21 | Importance of mulberry intercropping in mango orchard | UAS Dharwad | Sericulture | - | - | - | - |
| 22 | Assessment of productivity of stunted fingerlings | CIFA, Bhubaneswar | Inland fisheries | 1 | - | 2 | 18  (Extension activities) |
| 23 | Assessment of compatibility and survivability of Pangasius species in tilapia infested tanks. | KVAFSU, Bidar | Inland fisheries | 1 | - | 1 | 13  (Extension activities) |
| 24 | Amur common carp for higher productivity | FRIC (I), Bangalore | Inland fisheries | - | 1 | - | 21  (Extension activities) |

**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** |
| 0 | 0 | | 0 | | 0 | | 9 | | 1 | | - | | - | | 62 | | 2 | 5 | 0 | - | - | | - | | - |
| 0 | 0 | | 0 | | 0 | | 5 | | - | | - | | - | | 80 | | 2 | 7 | 3 | - | - | | - | | - |
| 0 | 0 | | 0 | | 0 | | 9 | | - | | 1 | | - | | 58 | | 0 | 4 | 0 | - | - | | - | | - |
| 0 | 0 | | 0 | | 0 | | 8 | | 1 | | 1 | | - | | 51 | | 1 | 5 | 0 | - | - | | - | | - |
| 4 | - | | - | | - | | - | | - | | - | | - | | 12 | | 2 | - | - | 236 | 12 | | 4 | | 3 |
| 4 | - | | - | | - | | - | | - | | - | | - | | 24 | | 7 | - | - |  |  | |  | |  |
| 0 | 0 | | 0 | | 0 | | 16 | | 4 | | - | | - | | 33 | | 4 | - | - |  |  | |  | |  |
| 0 | 0 | | 0 | | 0 | | 10 | | - | | - | | - | | 20 | | - | - | - |  |  | |  | |  |
| 7 | - | - | | - | | - | | - | | - | | - | | 10 | | - | | - | - | 38 | - | - | | - | |
| - | - | - | | - | | 10 | | - | | - | | - | | 41 | | - | | - | - | - | - | - | | - | |
| - | - | - | | - | | 10 | | - | | - | | - | | 10 | | - | | 35 | - | - | - | - | | - | |
| - | - | - | | - | | - | | - | | 5 | | - | | - | | - | | 60 | 23 | - | - | - | | - | |
| - | - | - | | - | | 5 | | - | | - | | 1 | | 17 | | 3 | | - | - | - | - | - | | - | |
| - | - | - | | - | | - | | - | | - | | - | | 28 | | - | | 7 | - | - | - | - | | - | |
| - | - | - | | - | | - | | - | | - | | - | | 20 | | - | | - | - | - | - | - | | - | |
| - | - | - | | - | | - | | - | | - | | - | | 31 | | 6 | | - | - | - | - | - | | - | |
| - | - | - | | - | | - | | - | | - | | - | | 16 | | 5 | | 2 | - | - | - | - | | - | |
| - | - | - | | - | | - | | - | | - | | - | | - | | - | | 8 | 15 | - | - | - | | - | |
| - | - | - | | - | | - | | - | | - | | - | | 19 | | - | | - | - | - | - | - | | - | |
| - | - | - | | - | | - | | - | | - | | - | | 36 | | - | | - | - | - | - | - | | - | |
| - | - | - | | - | | - | | - | | - | | - | | - | | - | | 22 | 5 | - | - | - | | - | |
| 1 | - | 2 | | - | | - | | - | | - | | - | | 33 | | 9 | | - | - | 16 | - | 9 | | - | |
| 3 | - | - | | - | | - | | - | | - | | - | | 12 | | - | | 7 | - | 22 | - | 4 | | - | |
| - | - | - | | - | | 4 | | - | | - | | - | | - | | - | | - | - | 46 | - | 3 | | - | |

**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 |
| Varietal Evaluation |  |  |  |  |  |  |  | 1 |  | 1 |
| Integrated Disease Management |  |  |  |  | 1 |  |  |  |  | 1 |
| Resource Conservation Technology |  |  |  |  |  |  |  | 1 |  | 1 |
| **Total** |  |  |  |  | **1** |  |  | **2** |  | **3** |

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

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Thematic areas** | **Cattle** | **Poultry** | **Piggery** | **Rabbitry** | **Fisheries** | **TOTAL** |
| Production and Management |  |  |  |  | 2 | 2 |
| **TOTAL** |  |  |  |  | **2** | **2** |

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

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

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Thematic areas** | **Crop** | **Name of the technology assessed** | **No. of trials** | **Number of farmers** | **Area in ha (Per trail covering all the Technological Options)** |
| Varietal Evaluation | Turmeric | Short duration variety- Pratibha | 4 | 4 | 0.15 |
|  |  |  |  |  |
| Integrated Crop Management |  |  |  |  |  |
|  |  |  |  |  |
| Integrated Disease Management | Cabbage | Assessment of IDM practices against black rot of cabbage | 7 | 7 | 0.15 |
|  |  |  |  |  |
| Resource Conservation Technology | Turmeric | Propagation of turmeric through finger cuttings. | 4 | 4 | 0.6 |
|  |  |  |  |  |
| **Total** |  |  | **15** | **15** | **0.9** |

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

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Thematic areas** | **Name of the livestock enterprise** | **Name of the technology assessed** | **No. of trials** | **No. of farmers** |
| Production and management | Inland fisheries | Assessment of productivity of stunted fingerlings | 3 | 3 |
|  |  | Assessment of compatibility and survivality of Pangasius species in tilapia infested tanks. | 3 | 3 |
| **Total** | | | **6** | **6** |

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

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

**Results of On Farm Trial**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Crop/ enterprise** | **Farming situation** | **Problem definition** | **Title of OFT** | **No. of**  **trials** | **Technology Assessed** | **Parameters of assessment** | **Data on the parameter** | **Results of assessment** | **Feedback from the farmer** | **Any refinement needed** | **Justification for refinement** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** |
| Turmeric | Irrigated | Longer crop duration suffers from water shortage | Assessment of short duration variety of turmeric – Pratibha. | 4 | Farmers practice:  Variety: Salem | No. of leaves:  Plant height(cm):  No. of suckers/plant:  Rhizome fresh wt/plant:  Rhizome dry wt/plant: | 7.9  3.9  2.98  455.8g  91.2g | Salem:  4965.8kg/ha in 265days | Longer duration of the crop suffered from water shortage | - | - |
| 4 | Alternative practice:  Variety: Pratibha | No. of leaves:  Plant height(cm):  No. of suckers/plant:  Rhizome fresh wt/plant:  Rhizome dry wt/plant: | 7.5  3.2  2.94  35.4g  87.3g | Pratibha: 4753.5kg/ha in 210days | Pratibha comes to maturity 2 months earlier than escaped from water deficit | - | - |
| Turmeric | Irrigated | High seed cost | Assessment of finger cuttings of turmeric for propagation | 4 | Farmers practice:  Mother seed rhizome planting | No. of leaves:  Plant height(cm):  No. of suckers/plant:  Rhizome fresh wt g/plant:  Rhizome dry wt/plant: | 7.8  3.9  4.3  610.2  122.8 | T1-6686.5kg/ha | More seed required (2500 kg/ha) | - | - |
| 4 | **Alternative practice - 1**  Finger cutting sowing in portray and sapling transplanting | No. of leaves:  Plant height(cm):  No. of suckers/plant:  Rhizome fresh wt g/plant:  Rhizome dry wt/plant: | 7.65  3.5  3.6  469.8  93.9 | T2-5112.9kg/ha | Seed requirement was 250 kg/ha.  and seed cost reduced  but yield reduction 23.5 % | Required | Reduction in turmeric yield in finger cutting sapling is due to shortage of stored food in the finger cutting and this shortage should be supplemented |
| 4 | **Alternative practice - 2**  Finger cutting sowing in sand bed and sapling transplanting | No. of leaves:  Plant height(cm):  No. of suckers/plant:  Rhizome fresh wt g/plant:  Rhizome dry wt/plant: | 6.4  3.4  3.4  381.3  76.3 | T3-4154.5kg/ha | 1. The seed requirement was from 1000kg/ha to 100 kg/ha.  2. Yield reduction of 23.5% is noticed in finger cutting in pro tray as compared to mother seed | Required. | Reduction in turmeric yield in finger cutting sapling is due to shortage of stored food in the finger cutting and this shortage should be supplemented |
| Cabbage | Irrigated | Small heads due to black rot of cabbage and causes low yield | Assessment of IDM practices against black rot of cabbage | 7 | **Farmers Practice:** Sowing un treated seed  Spray with streptomycin sulphate 0.5g + COC 3g/l | PDI  Yield q/ha | 18.68  209.8 | 209.8 q/ha | Noticed more disease in spite of sprays | - | - |
| **Rec. Practice:**  Seed treatment with streptomycin sulphate@ 100ppm Spray with streptomycin sulphate 0.5g + COC 3g/l | PDI  Yield q/ha | 11.78  246.8 | 246.8 q/ha | Observed disease reduction but caution is required in seed treatment | - | - |
| **Alternative practice**  Seed treatment (4g/kg) and seedling dip in *Pseudomonas florescence* solution (2g/lit)  Spray with streptomycin sulphate0.5g + COC 3g/l or *P. florescence* 2g/lit, two sprays  Spray of MN after antibiotic spray, two sprays | PDI  Yield q/ha | 5.8  266.76 | 266.7 q/ha | Observed less disease and good head size | - | - |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Fisheries-Carp farming | Irrigated | Non availability of advanced carp fingerlings, natural predation due to small sized seed stocking resulting in poor yield | Assessment of productivity of stunted fingerlings | 3 | TO -1 (Farmer’s practice)  Rearing of small carp fry (2-3cm) in larger water bodies | Avg. growth in gms,  Avg. length (cms)  Survivability (%) | Catla- 395.6  Common carp- 251.3  Catla-  17  Common carp- 16.2  Catla- 40.7  Common carp- 34.6 | 364.2 kgs/0.2ha | By practicing alternative practice, seed purchase expenditure can be reduced. More water management required during nursery rearing | - | - |
| 3 | TO -2  Stocking fingerling (9-10cm) sized seeds | Avg. growth in gms,  Avg. length (cms)  Survivability (%) | Catla- 1116.94  Common carp-456.16  Catla- 32.43  Common carp-23.49  Catla- 57.7  Common carp-53.2 | 1380.7kg/ 0.2ha |  |  |
| 3 | TO- 3  Production and rearing of stunted fingerling | Avg. growth in gms,  Avg. length (cms) and  survivality (%) | Catla 30.36  Common carp21.12  Catla836.4  Common carp 361  Catla 51.6  Common carp 39.2 | 815.4 kg/ 0.2ha |  |  |
| Inland fisheries | Irrigated | Cannibalism of carp seeds by tilapia | Assessment of compatibility and survivality of Pangasius in tilapia infested tanks | 3 | TO-1  Farmers practice  Rearing small carp fry (2-3cms) | Avg. weight in gms,  Avg.lenght in cms  Survivality in % | Catla -395.6  Common carp-251.3  Catla -17  Common carp-16.2  Catla -40.7  Common carp-34.6 | 364.2 kg/0.2ha |  | - | - |
| TO-2 Stocking carp fry + *Pangasius* in tilapia infested tanks (Poly culture) | Avg. weight in gms,  Avg.lenght in cms  Survivality in % | Common carp-482.2  Pangasius- 905.6  Common carp-27  Pangasius- 42.53  Common carp-38.5  Pangasius-62 | 2865 kg/0.2ha | 62-68% of survivality indicates better compatibility of Pangasius in tilapia infested tanks  Pangasius is a fast growing fish species compare to carps with better survivability |  |  |
| T-3Rearing of *Pangasius* in tilapia infested tanks (Monoculture) | Avg. weight in gms,  Avg.lenght in cms  Survivality in % | Pangasius-43.7  Pangasius- 922.5  Pangasius-68.2 | 2728 kg/0.2ha |  |  |

**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** |
| **Turmeric varietal assessment** | | | | | |
| Technology option 1 Salem(Farmer’s practice) | UAS Dharwad | 4965.8kg/ha | Kg/ha | 346922/-  (Rate Rs. 90/kg  Rs. 100000/- expenditure/ha) | 4.47 |
| Technology option 2 Pratibha | IISR Calicut | 4753.5kg/ha | Kg/ha | 350350/-  (Rate Rs. 100/kg  Rs. 125000/-  Expenditure/ha) | 3.80 |
| **Turmeric – propagation through saplings** | | | | | |
| Technology option 1 Mother rhizome(Farmer’s practice) | UAS Dharwad | 6686.5kg/ha | Kg/ha | 491785/-  (Rate Rs. 90/kg  Rs. 110000/- expenditure/ha) | 5.5 |
| Technology option 2 Finger cutting in pro tray | Innovative farmers | 5112.9kg/ha | Kg/ha | 339032/-  (Rate Rs. 80/kg  Rs. 70000/- Expenditure/ha) | 5.8 |
| Technology option 3 Finger cutting in sand bed | Innovative farmers | 4154.5kg/ha | Kg/ha | 267360/-  (Rate Rs. 80/kg  Rs. 65000/- Expenditure/ha) | 5.1 |
| **Cabbage** | | | | | |
| **TO1 (FP):**  Sowing un treated seed  Spray with streptomycin sulphate 0.5g + COC 3g/l | Farmers practice | 209.8 | q/ha | 151390 Rs/ha | 1:2.7 |
| **TO2 (RP):**  Seed treatment with streptomycin sulphate@ 100ppm  Spray with streptomycin sulphate 0.5g + COC 3g/l | UASD | 246.8 | q/ha | 200455 Rs/ha | 1:3.5 |
| **TO2 (AP):**  Seed treatment (4g/kg) and seedling dip in *Pseudomonas florescence* solution (2g/lit)  Spray with streptomycin sulphate0.5g + COC 3g/l or *P. florescence* 2g/lit, two sprays  Spray of MN after antibiotic spray, two sprays | UASD & TNAU | 266.7 | q/ha | 222837 Rs/ha | 1:3.8 |
| **Fisheries** | | | | | |
| Technology option 1 (Farmer’s practice)  Rearing of small carp fry (2-3cm) in larger water bodies | Farmers practice | 1821 | kg/ha | 109575/- | 5.06 |
| Technology option 2  Stocking fingerling (9-10cm) sized seeds | CIFA, Bhuvaneshwar | 6903.5 | kg/ha | 459012/- | 8.81 |
| Technology option 3  Production and rearing of stunted fingerling | CIFA, Bhuvaneshwar | 4077 | kg/ha | 264775/- | 7.46 |
| **Fisheries** |  |  |  |  |  |
| T1- (Farmer’s practice)  Rearing of small carp fry (2-3cm) in larger water bodies | Farmers practice | 1821 | kg/ha | 109575/- | 5.06 |
| T-2 Stocking carp fry + *Pangasius* in tilapia infested tanks (Poly culture) | KVAFSU, Bidar | 7162.5 | kg/ha | 470937/- | 8.11 |
| T-3Rearing of *Pangasius* in tilapia infested tanks (Monoculture) | KVAFSU, Bidar | 6820 | kg/ha | 450750/- | 8.42 |

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

details

* 1. **Title of Technology Assessed :** Assessment of IDM practices against black rot of cabbage
  2. **Problem Definition :** Small heads due to black rot of cabbage and causes low yield
  3. **Details of technologies selected for assessment:**

**TO1 (FP):** Sowing untreated seed and spray with streptomycin sulphate 0.5g + COC 3g/l

**TO2 (RP):** Seed treatment with streptomycin sulphate@ 100ppm and Spray with streptomycin sulphate 0.5g + COC 3g/l

**TO3 (AP):** Seed treatment (4g/kg) and seedling dip in *Pseudomonas florescence* solution (2g/lit),

Spray with streptomycin sulphate0.5g +COC 3g/l or *P. florescence* 2g/lit-two sprays and spray of micronutrient after antibiotic spray-two sprays.

* 1. **Source of technology:** UASD & TNAU
  2. **Production system and thematic area:** *Kharif* season-Irrigated-Black & red soil and disease management
  3. **Performance of the Technology with performance indicators:**

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

PDI : 18.68 11.78 5.80

Yield (q/ha) 209.8 246.8 266.7

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

In TO2, observed reduced disease but caution is required in seed treatment.

However TO3 is more effective and disease incidence was least.

* 1. **Final recommendation for micro level situation**:

Technology is effective. Demonstration, training and extension activities need to be taken up.

* 1. **Constraints identified and feedback for research:** a)**.** Survivability period of pathogen in affected field may be found out.

b).Effect of incorporation of crop residue on disease incidence may also be made.

* 1. **Process of farmer participation and their reaction:** Farmers were given more cooperation and they accepted this technology.

1. **Title of Technology Assessed:** Assessment of short duration variety of turmeric – Pratibha.
2. **Problem Definition:** Longer crop duration suffers from water shortage at maturity stages of the crop.
3. **Details of technologies selected for assessment:** TO 1 (FP) Salem is long durated variety requiring 9 months for maturity.

TO2 (AP) Pratibha is short durated variety requiring 7 months for maturity.

1. **Source of technology :** IISR Calicut
2. **Production system and thematic area:** Spice based, irrigated, mono cropping and Varietal trial.
3. **Performance of the Technology with performance indicators :**

**Performance Indicators** **Pratibha** **Salem**

1. Duration 7 months 9 months

2. Yield 4753.5kg/ha 4965.8kg/ha

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

Pratibha attains maturity 2 months earlier than Salem.

1. **Final recommendation for micro level situation:** Pratibha variety of turmeric is suitable for the area where water is availability is up to 7

months

1. **Constraints identified and feedback for research:** Pratibha yields less under black soil conditions.
2. **Process of farmers’ participation and their reaction:** Training, Group discussion, Method demo.

Farmers expressed satisfaction on earliness of Pratibha.

**III.**

1. **Title of Technology Assessed:** Assessment of finger cutting propagation in turmeric.
2. **Problem Definition:** Higher seed cost of turmeric.
3. **Details of technologies selected for assessment :** TO -1 (FP) Mother seed ; TO -2. Finger cuttings in sand bed; TO- 3 Finger cuttings in pro tray
4. **Source of technology :** Innovative farmers
5. **Production system and thematic area:** Spice based, irrigated, mono cropping and Resource conservation.
6. **Performance of the Technology with performance indicators :**

**Performance Indicators Mother seed F.C. in pro tray F.C. in sand bed**

No. of leaves: 7.80 7.65 6.40

Plant height(cm): 3.90 3.50 3.40

No. of suckers/plant: 4.30 3.60 3.40

Rhizome fresh wt g/plant: 610.20 469.80 381.30

Rhizome dry wt/plant: 122.80 93.90 76.30

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

This technique saves seed cost up to Rs. 30000 – 40000/- per acre

1. **Final recommendation for micro level situation :**

Cultivation of turmeric through finger cutting in pro tray is to be promoted for resource poor farmers.

1. **Constraints identified and feedback for research:** The yield reduction in finger cutting propagation as compared to mother seed is the main constraint. This seems to be due to the lack of reserve food in the finger cutting. The research may be initiated in enhancing the yield through supplemental nutrition in nursery.
2. **Process of farmers participation and their reaction:** Training, Group discussion, Method demo. ;

Farmers were happy regarding this resource conservation technology.

**IV.**

1. **Title of Technology Assessed** : Assessment of productivity of stunted fingerlings
2. **Problem Definition:** Non availability of advanced carp fingerlings, natural predation due to small sized seed stocking resulting in poor yield
3. **Details of technologies selected for assessment**
   1. T-1: Rearing of small carp fry (2-3cm) in larger water bodies
   2. T-2: Stocking fingerling (9-10cm) sized seeds
   3. T-3: Production of stunted fingerling
   4. Nursery rearing of Catla and Common carp fry in cement tanks under very high density @1500 seeds/6.25 m2 and feeding 1:1 rice bran : ground nut oil cake @ of 5% of body weight. After five months of rearing, stocking these advanced fingerlings (expected to reach 7-8.5cm) to larger water bodies for further rearing.
4. **Source of technology:** CIFA, Bhuvaneshwar
5. **Production system and thematic are:** Inland fisheries
6. **Performance of the Technology with performance indicators:** Average length (cms), Average weight (gms), survivality in %
7. **Feedback, matrix scoring of various technology parameters done through farmer’s participation / other scoring techniques**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Treatment** | **Average length (cm)** | | **Average weight (gm)** | | **Survival (%)** | | **Yield**  **(Kg/0.2ha)** |
| **Catla** | **Common carp** | **Catla** | **Common carp** | **Catla** | **Common carp** |
| TO-1 | 17 | 16.2 | 395.6 | 251.3 | 40.7 | 34.6 | 364.2 |
| TO-2 | 32.43 | 23.49 | 1116.94 | 453.16 | 57.7 | 53.2 | 1380.7 |
| TO-3 | 30.36 | 21.12 | 836.4 | 361.0 | 51.6 | 39.2 | 815.4 |

1. **Final recommendation for micro level situation:**
   * + 1. Along with mannuring with cow dung, supplementary feed supplied to seeds must consists of 50% Rice bran/maize flour + 50% Groundnut oilcake to make it complete diet and feeding rate must 5%. In spite of complete supplementary diet, growth of body mass is not very much during nursery rearing due to high density in smaller water body, thus stunted fingerlings are created. Once, stunted fingerlings are transplanted into larger water bodies, improvement in body masses occurs that results in higher yield by the end of culture period.
       2. High density nursery rearing needs intensive water management i.e. frequent water exchange and manual aeration. It was suggested to farmers that frequent water turbulence to be created manually during nursery rearing in order to improve the dissolved oxygen content in freshly filled water.
       3. Fingerlings production cost increased due to increase in prices of feed ingredients. Both yearlings and stunted fingerling rearing in larger water bodies will definitely improve the production of the district. Dept. of Fisheries should give emphasis to production of these fingerlings by re-establishing previously practiced system of buying back of fingerlings. Thus fingerling production will be enhanced throughout the district and increase in overall production is ensured. Within the culture period of one year after transplantation into larger water bodies, fishes attains minimum of 1.5 to 2.25 kgs.
       4. Current practices of seed stocking in community and departmental tanks who gets the tenders is too higher (40,000-60,000 fry per hectare) than recommendation (10000-12000 no.s). Even after high stocking rate, there is a huge gap in production (5.5mT) and potential (10-11mT) considering the water resources available in the district. Stunted fingerling technology can effectively solve this problem and reduces the cost of production.
2. **Process of farmers participation and their reaction:** During the initial phase, due to very small size of the fish seeds (1-2.5 cms), fishes normally doesn’t appear to the farmers, which create an impression in farmers that stocked fish might have dead/predated. This confusion has had effect on maintenance of feeding schedule and regularity. It’s only after 2 to 3 months later fishes start appearing to bare eyes.

**V.**

1. **Title of Technology Assessed:** Assessment of compatibility and survivality of Pangasius in tilapia infested tanks
2. **Problem Definition:** Tilapia infestation is observed in many of the farm ponds, community tanks and reservoirs. This has posed main problem of cannibalism of carp seeds stocked in water bodies.
3. **Details of technologies selected for assessment:** 
   * 1. **T1:** Rearing of small carp fry (2-2.5cm) in larger water bodies
     2. **T2:** Stocking carp fry + *Pangasius* in tilapia infested tanks (Poly culture)
     3. **T3:** Rearing of *Pangasius* in tilapia infested tanks (Monoculture)
4. **Source of technology:** KVAFSU, Bidar
5. **Production system and thematic area:** Inland aquaculture
6. **Performance of the Technology with performance indicators:** Yield in terms of growth and length, Survivality
7. **Feedback, matrix scoring of various technology parameters done through farmer’s participation / other scoring techniques**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TO** | **Avg. weight (gms)** | | **Avg. Length (Cms)** | | **Survivality** | | **(Total Yield Kg/0.2ha)** |
| T1 | **Catla** | **Com.carp** | **Catla** | **Com.carp** | **Catla** | **Com.carp** | 364.2 kgs |
| 395.6 | 251.3 | 17 | 16.2 | 40.7 | 34.6 |
| AP-1 | **Com. carp** | **Pangasius** | **Com. carp** | **Pangasius** | **Com. carp** | **Pangasius** | 2865 kgs |
| 482.2 | 905.6 | 27.0 | 42.53 | 38.5 | 62 |
| AP-2 | **Pangasius-** 922.5 | | **Pangasius**- 43.7 | | **Pangasius**- 68.2 | | 2728 kgs |

1. **Final recommendation for micro level situation:**

A. Although tilapia doest grow much bigger due to prolific breeding habit (300-500gms/in 10 months), highly carnivorous in nature. Carp seeds available for stocking in Belgaum district are of very small size (1-2.5cms) which had become easy prey (survivality is 34.6% to 40.7%). Whereas, Pangasius growth is relatively faster (Avg.900gms in 7 months) and higher survivality observed (62% and 68.2%).

B. Good compatibility observed among Pangaisus and carps (Catla and Common carp). Both Alternative practices (stocking Pangasius with carps and Pangasius alone) has found economical. Feed ingredients used in our assessment are locally available maize flour and groundnut oil cake because of non availability of exclusive pelleted feed locally. Given pelleted feeds for Pangasius, a body mass of at least Avg.1.2 kg will be attained within 6 to 7 months.

1. **Constraints identified and feedback for research:**

**Constraints:** Exclusive pelleted feeds are not available in and around belguam region and higher seed cost due to non availability of pangasius seeds in Karnataka. Due to distant transportation (18-22hrs )seeds need to be repacked in between the transportation.

1. **Process of farmers participation and their reaction:** Farmers are convincing about the growth differences among pangasius and carps. More number of farm pond holders are approaching to order Pangasisus seeds.

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

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

**PART V - FRONTLINE DEMONSTRATIONS**

**5.A. Summary of FLDs implemented during 2013-14**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Category** | **Farming**  **Situation** | **Season**  **and**  **Year** | **Crop** | **Variety/ breed** | **Hybrid** | **Thematic area** | **Technology Demonstrated** | **Area (ha)** | | **No. of farmers/**  **demonstration** | | | **Reasons for shortfall in achievement** |
| **Proposed** | **Actual** | **SC/ST** | **Others** | **Total** |  |
| 1 | Oilseeds | Rain fed | Kharif 2013 | Soybean | DSb-21 | - | ICM | Integrated Nutrient (Ca, B Zn & Fe), insect (defoliators IPM) and disease (rust – DSb21) management in soybean | 4 | 4 | - | 10 | 10 | - |
| 2 | Pulses | Rain fed | Kharif -2013-14 | Redgram | TS-3R | - | ICM in Redgram | Seeds (TS – 3R) : 12.5kg,  Trichoderma : 0.5kg,  Rhizobium : 0.5 kg,  PSB : 0.5kg,  Sulphur : 15.0 kg,  HNPV : 250 LE,  Methomyl : 600 gm,  Thiamethoxam : 200gm,  H. Traps : 10Nos  H. Lures: 30Nos and  Soil test : 1 no/ac | 4.0 | 4.0 | 00 | 10 | 10 | - |
| Irrigated | Rabi-2013-14 | Bengal gram | JG-11 | - | ICM in bengal gram | Seeds-62.5kg  Rhizobium :1250gm  Tricoderma:1000gm  PSB:1250gm  Neemicidine : 2000ml.  Prophenophous :2000ml  Pheromone traps -10Nos  Lures-30Nos | 4.0 | 4.0 | 1 | 9 | 10 | - |
| 3 | Cereals | Protective irrigation | Kharif 2013 | Maize | - | Seed tech 740 | ICM | Integrated Nutrient (Zn & Fe) and disease (Blight and & rust) management in Maize | 4 | 4 | - | 10 | 10 | - |
| 4 | Vegetables | Irrigated | Summer | Tomato | - | Abhinav | ICM | Vegetable special  IPM | 4 | 4 | - | 10 | 10 | - |
| 5 | Fruit | Irrigated | Kharif | Banana | G-9 | - | ICM | Banana special  IPM | 8 | 8 | - | 20 | 20 | - |
| 6 | Commercial | Irrigated | Rabi/Summer-2012-13 | Sugarcane | CoM-265 | - | Nursery raising , Zinc and Iron Management | Protrays 482Nos:  Coco pith: 213kg  Zinc: 25kg  FeSO4:25kg | 2.0 | 2.0 | 0 | 5 | 5 | - |
| Irrigated | Rabi/Summer-2013-14 | Sugarcane | Co-86032 | - | Nursery raising , Zinc and Iron Management | Protrays 482Nos:  Coco pith: 213kg  Zinc: 25kg  FeSO4:25kg | 2.0 | 2.0 | 1 | 9 | 10 | - |
| 7 | Common carps | Irrigated | Kharif  2013-14 | Carps | Amur common carp | - | Varietal demo | Amur common carp | 0.8 | 0.8 | - | 4 | 4 | - |
| 8 | Sericulture | Irrigated | Kharif 2013-14 | Mulberry | Victory-1 | - | PHOSHAN multi- nutrient foliar spray to mulberry | Demonstration of PHOSHAN multi- nutrient @ 7ml/lit foliar spray to mulberry | 2 | 2 | 5 | 0 | 5 | - |
| Irrigated | Rabi 2013-14 | Silkworm | FC1x FC2 | - | FC1xFC2 silkworm breeds | FC1xFC2 silkworm breeds demonstration. | 600  DFLs | 600  DFLs | 1 | 5 | 6 | - |

**5.A. 1. Soil fertility status of FLDs plots during 2013-14**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.**  **No** | **Category** | **Farming**  **Situation** | **Season**  **and**  **Year** | **Crop** | **Variety/ breed** | **Hybrid** | **Thematic area** | **Technology Demonstrated** | **Season and year** | **Status of soil** | | | **Previous crop grown** |
| **N** | **P** | **K** |  |
| 1 | Oilseeds | Rain fed | Kharif 2013 | Soybean | DSb-21 | - | Integrated crop management | Integrated Nutrient(Ca, B Zn & Fe), insect (defoliators) and disease (rust) management in soybean | 2013-14 | 210.8 | 18.6 | 215.1 | Wheat, Jowar, Bengal gram |
| 2 | Pulses | Rain fed | Kharif & 2013-14 | Redgram | TS-3R | - | ICM | Seeds (TS – 3R) : 12.5kg,  Trichoderma : 0.5kg,  Rhizobium : 0.5 kg,  PSB : 0.5kg,  Sulphur : 15.0 kg,  HNPV : 250 LE,  Methomyl : 600 gm,  Thiamethoxam : 200gm,  H. Traps : 10Nos  H. Lures : 30Nos and  Soil test : 1 no/ac | Kharif & 2013-14 | 288 | 17 | 142 | Groundnut,  Maize and |
| Irrigated | Rabi-2013-14 | Bengal gram | JG-11 | - | ICM | Seeds-62.5kg  Rhizobium :1250gm  Tricoderma:1000gm  PSB:1250gm  Neemicidine : 2000ml.  Prophenophous :2000ml  Pheromone traps-10Nos  Lures-30Nos | Rabi-2013-14 | 188 | 16 | 200 | Maize and Sugarcane |
| 3 | Cereals | Protective irrigation | Kharif 2013 | Maize | - | Seed tech 740 | Zn& Fe management + IDM | Integrated Nutrient (Zn & Fe) and disease (Blight and & rust) management in Maize | 2013-14 | 209.2 | 20.2 | 276.4 | Kapali wheat |
| 4 | Vegetables | Irrigated | Rabi, 2013-14 | Tomato | - | Abhinav | ICM | Vegetable special 5g/L; IPM | Summer, 2013-14 | 207 | 15 | 261 | Maize |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | Fruit | Irrigated | Kharif, 2013-14 | Banana | G-9 | - | ICM | Banana special 5g/L; IPM |  | 263.5 | 11.9 | 168.7 | Sugarcane |
| 6 | Commercial | Irrigated | Rabi/ Summer-2012-13 | Sugarcane | CoM-265 | - | Nursery raising ,Zinc and Iron Management | Protrays 482Nos:  Coco pith: 213kg  Zinc: 25kg  FeSO4:25kg | Rabi/ Summer-2012-13 | 295 | 17 | 235 | Maize ,Sobean and sugarcane |
| Irrigated | Rabi/ Summer-2013-14 | Sugarcane | Co-86032 | - | Nursery raising ,Zinc and Iron Management | Protrays 482Nos:  Coco pith: 213kg  Zinc: 25kg  FeSO4:25kg | Rabi/ Summer-2013-14 | 215 | 14 | 159 | Maize and sugarcane |
| 7 | Sericulture | Irrigated | Kharif 2013-14 | Mulberry | Victory-1 | - | PHOSHAN multi- nutrient foliar spray to mulberry | Demonstration of PHOSHAN multi- nutrient foliar spray to mulberry | Kharif 2013-14 | 206  kg/ha | 13 kg/ha | 198 kg/ha | Mulberry |
| Irrigated | Rabi 2013-14 | Silkworm | FC1xFC2 | - | FC1xFC2 silkworm breeds | FC1xFC2 silkworm breeds demonstration. | Rabi 2013-14 | 264 kg/ha | 15 kg/ha | 200 kg/ha | Mulberry- |

**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 | Integrated crop management | DSb-21 | - | Rain fed | 10 | 4 | 34.56 | 24.15 | 29.37 | 22.89 | 28.31 | 24073 | 69889 | 45816 | 2.9 | 23390 | 54483 | 31093 | 2.3 |
| Pulses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Redgram | Seeds (TS – 3R) : 12.5kg,  Trichoderma: 0.5kg,  Rhizobium:0.5kg,  PSB: 0.5kg,  Sulphur : 15.0 kg,  HNPV: 250 LE,  Methomyl :600 gm,  Thiamethoxam : 200gm,  H. Traps : 10Nos  H. Lures : 30Nos and  Soil test : 1 no/ac | TS-3R | - | Rain fed | 10 | 4.0 | 23.75 | 17.75 | 19.48 | 14.90 | 31.03 | 8017 | 35055 | 27038 | 3.95 | 6509 | 26628 | 20119 | 4.1 |
| Bengal gram | Seeds-62.5kg  Rhizobium :1250gm  Tricoderma: 1000gm  PSB:1250gm  Neemicidine : 2000ml.  Prophenophous :2000ml  Pheromone traps -10Nos  Lures-30Nos | JG-11 | - | Irrigated | 10 | 4.0 | Yet to submit Final report | | | | | | | | | | | | |
| Cereals |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Maize | Zn& Fe management + IDM | - | Seed Tech 740 | Protective irrigated | 10 | 4 | 68.75 | 60.87 | 63.60 | 52.33 | 21.54 | 26673 | 89040 | 62367 | 3.34 | 24592 | 73262 | 48670 | 2.98 |
| Vegetables |  |  |  |  |  |  |  | | | | | | | | | | | | |
| Tomato | ICM  – MN +IPM | - | Abhinav | Irrigated | 10 | 4 | Demonstration on yet to conclude and crop is fruiting stage and is Rabi/summer crop. | | | | | | | | | | | | |
| Fruit |  |  |  |  |  |  |  | | | | | | | | | | | | |
| Banana | ICM  – MN +IPM | G-9 | - | Irrigated | 20 | 8 | Demonstration on yet to conclude and crop is fruiting stage | | | | | | | | | | | | |
| Commercial | | | | | | | | | | | | | | | | | | | |
| Sugarcane | Protrays 482Nos:  Coco pith: 213kg  Zinc: 25kg  FeSO4:25kg | CoM-265 | - | Irrigated | 5 | 2.0 | 166.98 | 146.88 | 159.67 | 134.82 | 24.80 | 76954 | 351120 | 274116 | 4.56 | 94108 | 296604 | 202586 | 3.15 |
| Sugarcane | Protrays 482Nos:  Coco pith: 213kg  Zinc: 25kg  FeSO4:25kg | Co-86032 | - | Irrigated | 10 | 2.0 | Sugarcane – Crop is under progress | | | | | | | | | | | | |

\* 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** |
| **Red gram** |  |  |
| No. of seeds/pod | 275 Nos | 253Nos |
| No. of seeds/hill | 813 | 750 |
| 100 gain weight (g) | 13.9 | 12.4 |
| **Bengal gram** | Yet to be submit Final report | |
| **Sugarcane- R/S : 2012-13** |  |  |
| No of tillers /eye bud | 10 | 1.5 |
| Single cane weight (Kgs) | 1.30 | 1.02 |
| Yield ton/ha | 159.60 | 134.82 |
| **Sugarcane** | Crop is under progress - R/S : 2013-14 | |
| **Soybean** | 16.42 | 18.24 |
| Population/ m2 | 12.18 | 9.58 |
| 100 grain weight | 103.74 | 78.97 |
| No. of pods/hill | 91.48 | 79.52 |
| No. of nodules/ plant | 1.40 | 2.28 |
| Blue beetle /plant At 32 DAS | 0.66 | 1.98 |
| At 47 DAS | 3.54 | 4.82 |
| Spodoptera /mt At 32 DAS | 3.54 | 4.82 |
| At 47 DAS | 2.04 | 3.94 |
| At 75 DAS | 2.46 | 1.42 |
| Rust PDI | Nil | 46.22 |
| **Maize** |  |  |
| PDI - TLB | 26.2 | 38.6 |
| PDI - Rust | 21.4 | 37.2 |
| Grain Wt./cob | 197 | 169 |
| No. of rows/cob | 16 | 14 |
| 100 gain weight (g) | 29.5 | 24.3 |

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

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 | Amur common carp for higher productivity | Amur common carp | 4 | 4 | 820 | 522 | 704.5 | 482.2 | 46.10 | 12000/- | 84540 | 72540 | 7.04 | 10,520/- | 57,862/- | 47,342/- | 5.5 |

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

\*\* BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

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

|  |  |  |
| --- | --- | --- |
| **Data on other parameters in relation to technology demonstrated** | | |
| **Parameter with unit** | **Demo** | **Check if any** |
| **Common carps** | | |
| Length in cms | 35.56 | 27.0 |
| Weight in gms | 704.5 | 482.2 |

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** |  |  |  |  |  |  |  |  |  |
| Sericulture | PHOSHAN multi- nutrient foliar spray to mulberry | Victory-1 | 5 | 5 | 69 | 46 | 58 | 43.6 | 33.03 | 5785 | 22040 | 16255 | 3.8 | 6535 | 8686 | 2151 | 1.3 |
| FC1xFC2 silkworm breeds | FC1x FC2 | 6 | 600DFLs | 76.3 | 62.4 | 70.84 | 68.65 | 3.2 | 4791 | 31169 | 26379 | 6.5 | 4791 | 24028 | 19237 | 5.0 |

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

\*\* BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

**Data on additional parameters other than yield**

**(viz., additional income realized, employment generation, quantum of farm resources recycled etc.)**

|  |  |  |
| --- | --- | --- |
| **Data on other parameters in relation to technology demonstrated** | | |
| **Parameter with unit** | **Demo** | **Local** |
| **PHOSHAN multi- nutrient foliar spray to mulberry** |  |  |
| Rate for 1kg cocoons | 380/- | 202/- |
| Shell ratio (%) | 22 | 17 |
| Randitta | 5.8 | 6.5 |
| Net Returns (per 100 DFL’s) | 16255/- | 2151/- |
| **FC1xFC2 silkworm breeds** |  |  |
| Rate for 1kg cocoons | 440/- | 350/- |
| Shell ratio (%) | 21 | 18 |
| Randitta | 5.78 | 6.92 |
| Net Returns (per 100 DFL’s) | 26379/- | 19237/- |

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

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No.** | **Activity** | **No. of activities organised** | **Number of participants** | **Remarks** |
| 1 | Field days | 06 | 391 | Red gram and Sugarcane |
| 2 | Farmers Training | 20 | 488 | Both ON & OFF Trainings |
| 3 | Media coverage | 11 | - | Sugarcane , redgram, NICRA |
| 4 | Training for extension functionaries | 5 | 118 | Sugarcane on SSI- Seedling raising and Organic Farming and Certification |
| 5 | Advisory services | 10 | 56 | - |
| 6 | Field visit | 47 | 140 | - |
| 7 | Farmers meeting | 5 | 94 | - |
| 8 | Method demonstration | 3 | 42 | - |
| 9 | Group meetings | 3 | 46 | - |
| 10 | Diagnostic visit | 2 | 10 | - |
| 11 | Bio fuel sponsored training | 28 | 1815 | - |

**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** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Maize | Zn& Fe management + IDM | Seed Tech 740 | 10 | 4 | 68.75 | 60.87 | 63.60 | 52.33 | 21.54 | 26673 | 89040 | 62367 | 3.34 | 24592 | 73262 | 48670 | 2.98 |

H-High L-Low, A-Average

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

**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** |  |  |  |  |  |  |  |  |  |  |
| Integrated Crop Management | 1 | 20 | 1 | 21 | 1 | 0 | 1 | 21 | 1 | 22 |
| **Livestock Production and Management** |  |  |  |  |  |  |  |  |  |  |
| Others – stall feeding method of goat farming | 1 | 12 | 0 | 12 | 7 | 0 | 7 | 19 | 0 | 19 |
| **Plant Protection** |  |  |  |  |  |  |  |  |  |  |
| Integrated Pest Management | 1 | 20 | 0 | 20 | 0 | 0 | 0 | 20 | 0 | 20 |
| Integrated Disease Management | 1 | 10 | 0 | 10 | 0 | 0 | 0 | 10 | 0 | 10 |
| **TOTAL** | **4** | **62** | **1** | **63** | **8** | **0** | **8** | **70** | **1** | **71** |

**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 | 26 | 1 | 27 | 3 | 0 | 3 | 29 | 1 | 30 |
| Micro Irrigation/Irrigation | 1 | 14 | 0 | 14 | 2 | 1 | 3 | 16 | 1 | 17 |
| Nursery management | 1 | 26 | 1 | 27 | 3 | 0 | 3 | 29 | 1 | 30 |
| Integrated Crop Management | 1 | 30 | 0 | 30 | 3 | 0 | 3 | 33 | 0 | 33 |
| Integrated Nutrient Management | 1 | 16 | 1 | 17 | 2 | 0 | 2 | 18 | 1 | 19 |
| **Horticulture** |  |  |  |  |  |  |  |  |  |  |
| **a) Vegetable Crops** |  |  |  |  |  |  |  |  |  |  |
| Production of low value and high volume crop | 6 | 53 | 1 | 54 | 0 | 0 | 0 | 53 | 1 | 54 |
| Grading and standardization | 1 | 8 | 5 | 13 | 2 | 3 | 5 | 10 | 8 | 18 |
| Organic vegetable production | 5 | 148 | 2 | 150 | 0 | 0 | 0 | 148 | 2 | 150 |
| **b) Fruits** |  |  |  |  |  |  |  |  |  |  |
| Cultivation of Fruit | 1 | 16 | 4 | 20 | 0 | 0 | 0 | 16 | 4 | 20 |
| Organic Banana production | 1 | 8 | 1 | 9 | 0 | 0 | 0 | 8 | 1 | 9 |
| **c) Spices** |  |  |  |  |  |  |  |  |  |  |
| Resource Conservation Technology | 1 | 23 | 8 | 31 | 0 | 0 | 0 | 23 | 8 | 31 |
| **Soil Health and Fertility Management** |  |  |  |  |  |  |  |  |  |  |
| Soil fertility management | 1 | 20 | 0 | 20 | 1 | 0 | 1 | 21 | 0 | 21 |
| Integrated nutrient management | 1 | 0 | 0 | 0 | 8 | 15 | 23 | 8 | 15 | 23 |
| Soil and water testing | 4 | 79 | 6 | 85 | 15 | 13 | 28 | 94 | 13 | 107 |
| **Plant Protection** |  |  |  |  |  |  |  |  |  |  |
| Integrated Pest Management | 7 | 205 | 2 | 206 | 46 | 1 | 47 | 211 | 47 | 258 |
| Integrated Disease Management | 1 | 10 | 0 | 10 | 35 | 0 | 35 | 10 | 35 | 45 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sericulture** |  |  |  |  |  |  |  |  |  |  |
| Importance POSHAN multinutrient foliar spray to mulberry with RDF | 2 | 16 | 5 | 21 | 28 | 10 | 38 | 44 | 15 | 59 |
| Mulberry leaf production technology | 1 | 0 | 0 | 0 | 26 | 0 | 26 | 26 | 0 | 26 |
| Adoption of recent technologies in sericulture | 1 | 17 | 3 | 20 | 0 | 0 | 0 | 17 | 3 | 20 |
| Motivation in sericulture | 1 | 36 | 0 | 36 | 0 | 0 | 0 | 36 | 0 | 36 |
| Importance of mulberry intercropping in mango orchard | 1 | 0 | 0 | 0 | 22 | 5 | 27 | 22 | 5 | 27 |
| **Production of Inputs at site** |  |  |  |  |  |  |  |  |  |  |
| Vermi-compost production | 1 | 0 | 0 | 0 | 22 | 1 | 23 | 22 | 1 | 23 |
| **TOTAL** | **41** | **751** | **40** | **790** | **218** | **49** | **267** | **894** | **162** | **1056** |

**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** |
| Raising of Nursery in Sugarcane cultivation | 2 | 50 | | 1 | | 51 | | 5 | | 0 | | 5 | | 55 | | 1 | | 56 |
| **TOTAL** | **2** | **50** | | **1** | | **51** | **5** | | **0** | | **5** | | **55** | | **1** | | **56** | |

**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** |
| Production of organic inputs | 1 | 33 | | 0 | | 33 | | 50 | | 0 | | 50 | | 83 | | 0 | | 83 |
| **TOTAL** | **1** | **33** | | **0** | | **33** | **50** | | **0** | | **50** | | **83** | | **0** | | **83** | |

**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** |
| Integrated Pest Management | 1 | 11 | | 1 | | 12 | 0 | 0 | 0 | 11 | 1 | 13 |
| Production and use of organic inputs | 1 | 17 | | 1 | | 18 | 3 | 0 | 3 | 20 | 1 | 21 |
| Composite fish farming | 2 | 33 | | 9 | | 42 | 0 | 0 | 0 | 33 | 9 | 42 |
| **Total** | **4** | **61** | | **11** | | **72** | **3** | **0** | **3** | **64** | **11** | **76** |

**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** |
| Integrated Pest Management | 1 | 19 | | 0 | | 19 | 0 | 0 | 0 | 19 | 0 | 19 |
| **Total** | **1** | **19** | | **0** | | **19** | **0** | **0** | **0** | **19** | **0** | **19** |

7.G. Sponsored training programmes conducted

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S. No.** | **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | |
| **General** | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| 1 | Others- Biofuel awareness training sponsored by KSBDB for gram panchayat members of 5 taluks | 28 | 1573 | 242 | 1815 | 0 | 0 | 0 | 1573 | 242 | 1815 |
| **Total** | | **28** | **1573** | **242** | **1815** | **0** | **0** | **0** | **1573** | **242** | **1815** |

**Details of sponsoring agencies involved**

1. KSDA organic farming
2. RCOF
3. State Horticulture Department
4. Karnataka State Biofuel Development Board, Govt. of Karnataka, 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** |  |  |  |  |  |  |  |  |  |  |
| **2** | Commercial floriculture | 1 | 2 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 |
| **3** | Sericulture | 6 | 0 | 0 | 0 | 4 | 0 | 4 | 4 | 0 | 4 |
| **Grand Total** | | **7** | **2** | **0** | **2** | **4** | **0** | **4** | **6** | **0** | **4** |

**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 | 9 | 446 | 16 | 462 | 191 | 6 | 197 | 24 | 11 | 35 |
| Kisan Mela | 9 | 3350 | 0 | 3350 | 1650 | 0 | 1650 | 50 | 2 | 52 |
| Kisan Ghosthi | 9 | 57 | 0 | 57 | 22 | 0 | 22 | 2 | 0 | 2 |
| Exhibition | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Method Demonstrations | 11 | 200 | 16 | 216 | 84 | 8 | 92 | 19 | 2 | 21 |
| Group meetings | 53 | 586 | 46 | 632 | 288 | 22 | 310 | 57 | 14 | 71 |
| Lectures delivered as resource persons | 123 | 4033 | 536 | 4569 | 1985 | 264 | 2249 | 567 | 170 | 737 |
| Newspaper coverage | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Radio talks | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TV talks | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Popular articles | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Extension Literature | 590 | 1114 | 120 | 1234 | 548 | 51 | 599 | 12 | 0 | 12 |
| Advisory Services | 133 | 177 | 20 | 197 | 75 | 7 | 82 | 8 | 3 | 11 |
| Scientific visit to farmers field | 308 | 708 | 120 | 828 | 349 | 52 | 401 | 72 | 4 | 76 |
| Farmers visit to KVK | 716 | 558 | 116 | 674 | 238 | 51 | 289 | 52 | 7 | 59 |
| Diagnostic visits | 97 | 174 | 17 | 191 | 85 | 9 | 94 | 18 | 1 | 19 |
| Exposure visits | 2 | 21 | 0 | 21 | 6 | 0 | 6 | 0 | 0 | 0 |
| Soil health Camp | 3 | 31 | 3 | 34 | 8 | 0 | 8 | 3 | 0 | 3 |
| Animal Health Camp | 3 | 19 | 3 | 22 | 6 | 2 | 8 | 3 | 0 | 3 |
| Parthenium awareness week | 11 | 44 | 28 | 72 | 12 | 12 | 24 | 3 | 1 | 4 |
| Publication | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **2113** | **11518** | **1041** | **12549** | **5542** | **484** | **6031** | **890** | **215** | **1105** |

**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) | Wheat | DWR-162 | - | 5.0 | 11,000/- | 07 |
| Oilseeds | Soybean | JS-335 | - | 9.0 | 51,000/- | 16 |
| Pulses | Horse gram | GPM-6 | - | 2.40 | 6,000/- | 08 |
| Red gram | TS-3R | - | 4.29 | 19,150/- | 12 |
| **Total** | | | | **20.69** | **87150** | **43** |

# 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** |
| Mango grafts | Mango | Alphanso | - | 2260 | 67,750/- | 60 |
| Guava Grafts | Guava | L-49 | - | 1106 | 33,180/- | 28 |
| Guava seedlings | Guava | Local | - | 500 | 5000/- | Stock |
| Jamun Seedlings | Jamun | Local | - | 200 | 2000/- | Stock |
| Fruits | Tamarind | MTI-Series | - | Harvesting & Dehulling-Under progress | | |
| Fodder crop saplings | Guinea | G-1 | - | 28000 | 28000/- | 8 |
| Hybrid napier | APBN-1 |  | 20000 | 20000/- | 8 |
| Tamarind seedlings | Tamarind | Local |  | 1000 | 10,000/- | Stock |
| Jamun seedlings | Jamun | Local |  | 200 | 2000/- | Stock |
| Others(specify) Fodder grass | Guinea | G-1 |  | 50 tons | 15000 | 5 |
| Rhodes | Keladi kotambari |  | 50 tons | 15000 | 5 |
| Seedlings | mulberry | Victory-1 | - | 3600 | 1800 | 2 Sericulturists of Yelpatti farmers of Gokak taluk |
| **Total** | | | | **56866** | **169730** | **106** |

**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 | VAM | 760.33 | 39,260/- | 85 |
| Micronutrient | Vegetable special | 274 | 41,100/- | 26 |
| Others (specify) Organic Manure | Vermi compost | 2000 | 5000/- | 02 |
| Liquid Fertilizer | 120 | 12,000/- | - |
| Bio Fertilizers | Pongamia oil cake | 1470 | 22050 | 14 |
| **Total** | | **3624.33** | **117410** | **130** |

# 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** |  |  |  |  |
| Buffaloes | Pandrapuri | 1 | 20,000/- | 1 |
| Surthi | 1 | 10,000/- | 1 |
| Calves | Surthi | 1 | 5,000/- | 1 |
| **Fisheries** |  |  |  |  |
| Fingerlings | Carps | 3000 Nos | 900/- | 3 |
| Edible fishes | Carps | 7Kg | 480/- | 5 |
| Ornamental fishes | Guppies | 840 Nos | 1680/- | 8 |
| **Total** |  | **3850** | **38060** | **19** |

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

**DROUGHT MITIGATION**

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

(A) KVK News Letter ((Date of start: April 2013 to September 2013, Periodicity: 10, number of copies distributed : 1000)

(B) Literature developed/published

|  |  |  |  |
| --- | --- | --- | --- |
| **Item** | **Title** | **Authors name** | **Number** |
| News letters | KVK News Letter | U.Y.Patil, Dr S Shashikumar | 1000 |
| Technical bulletins | Togariy Adhik UtpadanegegagiSasi Nati Paddati | M. N. Malawadi, D.C. Chougala and  G. S. Patted | 1000 |
| Popular articles | Togari Beleya Sudharit Tantranyanagalu | M. N. Malawadi, D.C. Chougala and  G. S. Patted | ,000 |
| Soybean Beleya Hanikark Kitagalu Hagu avugala Nirvahane | D.C. Chougala ,M. N. Malawadi, and  Rajani Rajaput | New paper |
| Soyabean beleya hanikaraka keetagalu hagu avugala nirvahane | DC Chougala, Maruti Malawadi,  Rajani Rajaput | ,000 |
| Miridbug damage symptoms and their management in cotton | DC Chougala, Shashikumar, S.  Maruti Malawadi,Veena Yalaburgi | ,000 |
| Kabbina ravadeinda kamposta tayarika vidhanagalu | N R Salimath, Dr S Shashikumar,  Sweta Biradhar | 1 |
| Sudharit resme hulu sakanike | N R Salimath, Dr S Shashikumar,  Sweta Biradhar | 1 |
| Extension literature | Hatti beleyalli samagra keeta nirvahane | DC Chougala, Maruti Malawadi,  Veena Yalaburgi, Rajani Rajaput | 500 |
| IPM in Soybean | DC Chougala, Maruti Malawadi,  Veena Yalaburgi, Rajani Rajaput | 500 |
| News paper coverage | Pest staus of cotton soybean, maize and jowar and their management | DC Chougala | ,000 |
| Sasya hagu januvaru somvrakshnege salahegalu | DC Chougala and Adarsh HS | ,000 |
| Bt Hattibeleyalli keetanirvahane | DC Chougala | ,000 |
| Sanganatmaka gumpugalinda Krishi chatuvatike sadhya | DC Chougala, Veena Yalaburgi, | ,000 |
| TV coverage | Use of plant health diagnostic Centre - DD | DC Chougala | ,000 |
| Rhizome and soil borne diseases - DD | DC Chougala | ,000 |
| Plastic mulching in vegetable crops | S. S. Sharma | ,000 |
| Turmeric intercropping in mulberry under paired row | N. R. Salimath | ,000 |
| Improved production techniques in Redgram | Maruti Malawadi | ,000 |
| Nursery raising in Sugarcane | Maruti Malawadi | ,000 |
| Wheather information for agriculture crops | Maruti Malawadi | ,000 |
| Natural resource management | Maruti Malawadi | ,000 |
| Improved goat farming | H. S. Adarsh | ,000 |
| Folders | Havaman stitiya vyatyasagala moolak a krishiya mele untaguva parinamagalinda raitara chetarisikolluvikege havamana aadharita Krishi salaheghalu – Belagavi jelleyalli madari prayatna | H. Venkatesh, S Shashikumar, D C Chougala, M N Malawadi, Rajani rajaput, S S Sharma, etc. |  |
| Banana | S.S.Sharma, G.S.Patted | 1000 |
| Turmeric | S.S.Sharma, D.C.Chougla | 1000 |
| Biofertiliser | S.S.Sharma, Vasu Karigannavar | 1000 |
| Azolla | S.S.Sharma, Vasu Karigannavar | 1000 |
| Organic plant protection | S.S.Sharma, Vasu Karigannavar | 1000 |

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

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

**I.**

**Title:** Entrepreneurship development in sericulture to mitigate domestic problems.

**Background:** A farmerMr. Shivappa Sannasatteppa Bulli , age 65, from Gilihosur village of Gokak taluk is a retired person and resided in Gilihosur village. He is having 7 acre of land. Since 2007-08 he was growing horse gram and bajra in an area of 7acre of dry land and earning only 40 to 50 thousand per year. This income could not met domestic requirements of his family. To mitigate these problems during April 2009 he dug out open well with financial assistance from the bank. After making his land irrigated, he started cultivating maize and vegetables. Though cultivation of these crops he was unable to repay his bank installments and he was a defaulter in banks and mounting interest of the loan. It made him to search for alternate high profitable commercial crops. During this period he came in contact with Krishi Vigyan Kendra Tukkanatti and expressed his problems and solution for his economic problems. Then KVK suggested to choose sericulture as less investment and more profitable enterprise.

**Interventions**

**Process:**

Krishi Vigyan Kendra Scientist has advised him to cultivate mulberry. He planted Victory-1 variety mulberry in an area of 0.6 ha. Krishi Vigyan Kendra trained this farmer and his son and also asked them to attend extension activities of sericulture. KVK for one year monitored his sericulture practices regularly.

**Technology:**

He was trained on basic and new technologies of sericulture viz. particularly 1.cultivation of mulberry on paired row system. 2. Methods of harvesting of shoots. 3. Irrigation & fertilizer management. 4. Feeding management to silk worms. 5. Incubation of DFLS. 6. Disinfection methods in rearing house & bed. 7. Chawki & adult rearing technologies, etc. He constructed model rearing house, KVK has made linkage with State Department of sericulture Gokak and supported him to get subsidy of Rs. 75,000/- for 1000 Sq,ft rearing house, 30000 for rearing utensils with 25% contribution and 7500 for mulberry seedlings under SC/ST subsidy programme.

**Impact**

**Horizontal Spread:** Initially he planted mulberry in an area of 0.3ha and after one year he expanded his mulberry area from 0.3 ha to 0.60 ha. His success in sericulture inspired other farmers his village and neighboring village viz. Jamunal, Khanagoan, Shiltibhavi, Makkalageri and Yelpatti of Gokak taluk. Totally 38 farmers started cultivation of mulberry in an area of 32 acres.

**Economic gains:**

He was rearing an average of 200 DFLS of CSR (2 X 4) & FC1xFC2 breed in each crop. He harvested 55- 65 kg cocoons per 100DFLS. He got average price of Rs. 350/- per kg cocoons. He is harvesting 4-5 crops per year. From 0.6 ha of mulberry land he is getting gross income of Rs. 1,70,000/- to 2,50,000/- with an expenditure of Rs. 45000/- to50000/- and net income is Rs. 1,25,000/-to 2,00,000/- per year.

**Employment Generation:**

His son Mr. Veerabhadrappa S. Bulli graduated and completed B.Ed. course and he was in search of job. He is assisting his father in sericulture activities and now he is involving his entire time in sericulture routine activities. He is in the plan to expand his mulberry area and decide to become fulltime sericulturist. He now stopped searching job and became self employed sericulturist.

**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 portray (SSI) and plastic mulching technology was transferred to sugarcane growers of Belgaum district through TV programmes and trainings.
2. Red gram Nursery raising technology was transferred to Red gram growers of Belgaum district through TV programme and trainings.
3. RDF+ Foliar spray with PHOSHAN @, 1liter in 140 liter of water for 0.4ha, 25 to 30 days after pruning, single spray.(7ml/liter) demonstrated in 5 farmers field and popularized through meetings, advisories, frequent field visits, field days etc.along with department of sericulture Gokak and Belgaum. The success of this demo has resulted in the use of PHOSHAN multinutrient foliar spray in district and the dept is decided to purchase for whole district sericulture farmers and to distribute on subsidised rats to all farmers of the district.
4. Improved quality breed FC1xFC2 (Double hybrid) was demonstrated with 6 selected farmers. The success of this demo has resulted in the use of improved quality breed FC1xFC2 (Double hybrid) 42 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** |
| 1 | Organic grape production | Turmeric spray 2% solution | Fungal diseases |
| 2 | Organic vegetable cultivation | Liquid fertilizer 5% solution | Source of micronutrients, growth promoters |
| 3 | Silk worm | Spraying of 5% Tea powder +1% jaggary solution at 5th instar larvae at morning feed on fresh mulberry leaves after 4th moult to spinning. ,(Tea powder 50 gm +10 gm jaggary in 1liter of water boiling at 100C for 2 min cool & spray | For quality cocoons |
| 4 | Silk worm | Spraying of 5% Coffee powder +1% jaggary solution at 5th instar larvae at morning feed on fresh mulberry leaves after 4th moult to spinning. ,(Coffee powder 50 gm +10 gm jaggary in 1liter of water boiling at 100C for 2 min cool & spray) | For quality cocoons |
| 5 | Silk worm | Keeping turmeric solution in front of door at rearing house to attract Uzi fly | Control of Uzi fly |

**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 : 22

ii. No. of farm families selected : 75

iii. No. of survey/PRA conducted : 27

**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 | 2333 | 1905 | 209 | 4,45,800/- |
| Water Samples | 370 | 267 | 150 | 17,950/- |
| Plant samples | - | - | - | - |
| Manure samples | - | - | - | - |
| Others (specify) | - | - | - | - |
| Total | 2703 | 2172 | 359 | 4,63,750/- |

Details of samples analyzed during the 2013-14 :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages | Amount realized (Rs.) |
| Soil Samples | 334 | 282 | 35 | **53400/-** |
| Water Samples | 52 | 52 | 7 | **100/-** |
| Plant samples | **-** | **-** | **-** | **-** |
| Manure samples | **-** | **-** | **-** | **-** |
| Others (specify) | **-** | **-** | **-** | **-** |
| Total | 386 | 334 | 42 | **53500/-** |

Other Details

| **Types of Activities** | **No. of**  **Activities** | **Number of**  **Farmers** | **Related crop/livestock technology** |
| --- | --- | --- | --- |
| Soil health camp, meetings & advisory | 1 | 51 | Mongo(Alfanso variety) & Sapota(Kalipatti variety) Total 51Acre conducted soil testing and water conservation and established orchard at ST farmers field and 22 acre intercropped with mulberry (variety victory-1) |
| Exhibition | 2 | 1000 | Related crop/livestock technology of the KVK |
| Diagnostic Practical’s | 2 | 11 | Mulberry crop and silkworm |
| Supply of Literature (No.) | 6 | 66 | SWTL, mulberry crop and silkworm |
| Supply of Planting materials (No.) | 4 | 12 | Mulberry seedlings |

**Activities of PHDC Laboratory**

Status of establishment of Lab : Good

1. Year of establishment : 2012-13

2. List of equipments purchased with amount :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl. No | Name of the Equipment | Qty. | Cost | Status |
| 1 | BOD Incubator (5 - 60 OC) | 1 | 82,650 | Good |
| 2 | Deep Freezer - 200C | 1 | 1,05,572 | Good |
| 3 | Hot water bath thermostatically controlled | 1 | 8,892 | Good |
| 4 | Magnetic stirrer | 1 | 4,788 | Good |
| 5 | Micro balance | 1 | 106,430 | Good |
| 6 | Laminar air flow horizontal type | 1 | 87,425 | Good |
| 7 | Trianocular, Stereo zoom Microscope with camera | 1 | 165,000 | Good |
| 8 | Binocular compound digital microscope with camera | 1 | 95,000 | Good |
| 9 | Thermo hygrometer Dial type |  | 2250 | Good |
| 10 | Water purifier Reverse Osmosis | 1 | 31600 | Good |

Details of samples analyzed so far since establishment of PHDC:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages | Amount realized (Rs.) |
| Plant samples | 121 | 121 | 34 | 0 |

Details of samples analyzed during the year:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages | Amount realized (Rs.) |
| Plant samples | 97 | 97 | 34 | 0 |

**10.I. Technology Week celebration during 2013-14 : Not organized**

**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** |
| Karnataka | Redgram TS-3R | 2.0 | 6 |
| Bengalgram JG-11 and A-I | 2.0 | 5 |
| horse gram GPM-6 | 2.0 | 10 |
| Bajra-ICTP-8203 | 2.0 | 10 |
| Mango | 5 | 8 |
| Guava | 0.4 | 2 |
| Mango+Sapota+mulberry | 20.4 | 51 |

B. Major area coverage under alternate crops/varieties

|  |  |  |
| --- | --- | --- |
| **Crops** | **Area (ha)** | **Number of beneficiaries** |
| Oilseeds |  |  |
| Soybean | 10.0 | 25 |
| Groundnut | 5.0 | 13 |
| Pulses |  |  |
| Redgram | 8.0 | 20 |
| Horse gram | 4.0 | 16 |
| Cereals |  |  |
| Bajra | 2.0 | 10 |
| Vegetable crops | 4 | 10 |
| Fruits |  |  |
| Mango | 20.4 | 51 |
| **Total** | 53.4 | 145 |

C. Farmers-scientists interaction on livestock management: Nil

D. Animal health camps organized : Nil

E. Seed distribution in drought hit states: Nil

F. Large scale adoption of resource conservation technologies

|  |  |  |  |
| --- | --- | --- | --- |
| **State** | **Crops/cultivars and gist of resource conservation technologies introduced** | **Area (ha)** | **Number of farmers** |
| **Karnataka** | Bajra + Greemgram, Bajra + Horse gram and Redgram + Greengram ,-comparment bunding | 6.0 | 14 |
| Rabi Jowar + Bengalgram – opening of dead furrows | 5.0 | 10 |
| Organic farming | 160 | 101 |
| Trenching-mulching technology in mulberry: It is making trench in between paired row of five feet distance and mulching with agriculture crop waste. Its purpose is to conserve soil moisture. The source of technology is from CSRTI Mysore and introduced in collaboration with dept of sericulture ZP Belgaum. | 200 | 250 |
| **Total** | | 371 | 375 |

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** |
| Karnataka | 10 | 113 | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

**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)** |
| Sugarcane Seedling raising in Protrays | 85 | 47 | 2,25,000/- | 3,00,000/- |
| Crop specific foliar spray micronutrient- Vegetable special | 108 | 75 | 46000/acre | 62000/acre |
| RDF+ Foliar spray with PHOSHAN @, 1liter in 140 liter of water for 0.4ha, 25 to 30 days after pruning (7ml/liter) | 25 | 80 | 11565/- | 16255/- |

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

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

**PART XII – LINKAGES**

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

|  |  |
| --- | --- |
| **Name of organization** | **Nature of linkage** |
| ACB-college, Bijapur | Purchase of Horse gram seeds |
| ADA Athani | Diagnostic survey, Meeting and trainings for implementing FLD, OFT and trainings |
| ADA Gokak, Raibag and Athani | Lecture given at Kharif workshop |
| AIR Dharwad | Recording of Radio talk |
| ARS Arabhavi | Technical guidance from maize breeder |
| ARS- Gulbarga | Discussion about TS-3R Redgram seeds |
| ATMA | Resource person, participation in meeting, conducting training programmes, joint diagnostic survey |
| Dept of sericulture Raibag | Jointly conducted OFF Campus training on soil testing in mulberry and field crops |
| BIRDS TDF NABARD | Jointly made field visit made and advised to farmers on management of mango and Sapota orchard intercropped with mulberry during summer by sip irrigation, |
| Jointly conducted farmers meeting on water shaving technologies like sip irrigation, mulching, to mulberry intercropped with mango orchard at Jamunal |
| Jointly conducted farmers meeting on micro entrepreneurship development and intercropping mulberry management along with Chairman. |
| Jointly organized Off campus training at Jamanal and Pudakalkatti village under FLD on minor millets under Home Science discipline & delivered Guest lecture on “importance of soil testing in minor millets” |
| Jointly conducted off campus training on importance of soil testing in mulberry |
| Jointly made field visit to identify crop performance and deficiency of nutrients in mulberry and advised to RDF soil application |
| Jointly field visit to identify the problem of problematic of soil at sugarcane plot and given suggestion to avoid saline water irrigation & reclamation by sub surface drainage and soil testing. |
| Jointly conducted farmers meeting at Khanagoan advised to farmers about WADI establishment ,invited Chairman, PC and SS Sharma as guests |
| Jointly conducted farmers meeting at Keshappanatti & Yelpatti village discussed about microenterprise management |
| Jointly conducted farmers meeting at Pudakalkatti, Keshappanatti & Yelpatti village Chairman up on microenterprise management |
| Jointly conducted farmers meeting with chairman about microenterprise implementation at Khanagoan |
| Jointly conducted farmers meeting with chairman about microenterprise implementation & selected beneficiary for lift irrigation around Karkumpi Kannamma temple for orchard development. |
| CMFRI, Kochin | HRD on recent advanced technologies in marine fisheries |
| College of Fisheries, Mangalore | Updation on Inland fish culture technologies |
| CRIDA Hyderabad | Weather information and information on weather based agro advisories |
| DDS office Belgaum | **C**ollected statistical information on sericulture for 2012-13 and programme for 2013-14 |
| Dept of AH & VS Khanagoan | Animal health treatment on Foot and Mouth Diseases at Jamanal |
| Dept of forestry Toragall Tq Ramadurg | Selection of forestry nursery for NICRA and TDF programme at Regular & social forestry |
| Dept of sericulture DDS Belgaum | Attended as resource person on intercropping turmeric, soybean, menthe, coriander, tomato, watermelon etc. under mulberry paired row system at CRC Hirebagewadi along with sericulture commissioner and sericulture director  Smt, Nagalambikadevi IAS |
| Dept of sericulture Gokak | Identified the occurrence silkworm diseases at Gilihosur |
| Dept. of Microbiology UAS, DWD | Purchase of Bio fertilizers |
| Dept.Director of Fisheries, Belgaum | Trainings, carp fry supply |
| Farmers training centre, Arabhavi | Attended training |
| FRIC, Hebbal | Amur Common carp seed production |
| Gram anchayath Khanagoan | Guest lecture on soil testing and plantation of biofuel plants |
| IGFRI | Procurement of fodder slips,technical information |
| IVRI, Bangalore | Sensitization workshop on FMD control |
| KLE KVK Mattikoppa | Cross learning |
| KSBDB, Bangalore | Biofuel production and awareness among rural community |
| KSDA | Organic service provider, Agro advisory to Dept., training farmers and extension functionaries. |
| KSDH | Participation in meeting |
| KSSCA-Dharwad | Purchase of Field crop seed |
| KVAFSU, Bidar | Advanced technologies in Fisheries |
| NABARD Bangalore | Attended work shop on Mango and Sapota Orchard management with mulberry intercropping lively hood security for ST community of Gokak taluk. |
| NCIPM New Delhi | IPM Technology |
| NRR School BIRDS Tukkanatti | Jointly organized Parthenium awareness day celebration |
| SWTL Gokak | To collect address to purchase of glassware and chemicals |
| TDF cluster village planning committee Khanagoan | Jointly organized training on mango, Sapota orchard and intercropping with mulberry and management of dairy animals & sheep’s. The training was organized at Jamanal,Pudakalkatti,Khanagoan,Gilihosur,Keshappanatti and Yelpatti villages of Gokak taluk |
| UAS Dharwad | Jointly organized training programme & delivered guest lecture on recording ,reporting ,practically preparing outlines of formats –preliminary reports, progress and final reports of OFT,FLD to BSc (Ag) students of UASD, Procurement of Seeds, technical information |
| Ware house | Documentation of ware house farmers list and certification and delivered guest lecture on secondary agriculture |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of the scheme** | **Role of KVK** | **Date/ Month of initiation** | **Funding agency** | **Amount (Rs.)** |
| Seed Village Scheme | Implementing Agency | April 2013 | Ministry of Agriculture and Cooperation Govt of India New Delhi | 12.13 lakhs |
| National Initiative Climate Resilient Agricultural (NICRA) | Implementation of the program me | January 2010-11 | CRIDA -Hydra bad (ICAR) New Delhi | 7.30 lakhs |
| National Information System for Pest Management in Bt Cotton | Implementation of the program me | June, 2008 | NCIPM, New Delhi | 5.98 lakhs |
| Biofuel Information and Demonstration Center | Awareness, training, biodiesel, bio-fertilizer production | 04-07-2012 | Karnataka State Biofuel Development Board | 7.9 lakhs during |

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

a) Is ATMA implemented in your district Yes

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

**Coordination activities between KVK and ATMA during 2013-14**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Programme** | **Particulars** | **No. of programmes attended by KVK staff** | **No. of programmes Organized by KVK** | **Other remarks (if any)** |
| **01** | **Meetings** | SREP | 3 | - |  |
| Preparation of SREP & PRAP methodology use | 3 | 1 | - |
| Jointly conducted meetings with dept of sericulture ZP Belgaum | 8 | 0 | - |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **02** | **Training programmes** | Production technologies in Kharif field crops | 1 | - | - |
| ICM inBanana,  ICM in Watermelon | 4 | - |  |
| Resource for new technologies in Sericulture, Soil & water testing | 11 | 2 | - |
| **03** | **Extension Programmes** |  |  |  |  |
|  | Farmer Scientists interaction | 1 | 1 | - | - |

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

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

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

**12. G Kisan Mobile Advisory Services**

|  |  |  |  |
| --- | --- | --- | --- |
| **Month** | **No. of SMS sent** | **No. of farmers to which SMS was sent** | **No. of feedback / query on SMS sent** |
| **April 2013** | 8 | 683 | - |
| **May** | 11 | 724 | - |
| **June** | 13 | 737 | - |
| **July** | 25 | 1172 | - |
| **August** | 20 | 1459 | - |
| **September** | 25 | 1567 | - |
| **October** | 20 | 1567 | - |
| **November** | 13 | 1585 | - |
| **December** | 25 | 1597 | - |
| **January 2014** | 15 | 1600 | - |
| **February** | 10 | 1658 | - |
| **March 2014** | 5 | 1627 | - |
| **Total for the year 2013-14** | 190 | 1627 | - |

**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 | Vermi compost | 2001-02 | 0.0019 | - | Vermicompost | 2000kgs | - | 5000/- | - |
| 2 | Poly house | 2005-06 | 0.0075 | Alphanso  L-49 | Mango grafts  Guava grafts | 2260 Nos  1106 Nos | 22,600/-  11060/- | 67,750/-33,180/- | - |
| 3 | Nursery | 2007-08 | 0.01 | Local  Local | Guava  Jamun | 500 Nos  200 Nos | 2500/-  1000/- | 5000/-  2000/- | - |
| 4 | Fish culture | 2006 | 0.02 | Carps | Catla and Rohu | 7 kg |  | 480/- |  |
| Carps | Common carp | 3000 nos | -- | 900/- | - |
| Ornamental fish | Guppy | 840 no.s | -- | 1680/- | - |

**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 |  |  |  |  |  |  |  |  |  |
| Wheat | 22-10-2013 | 17-02-2014 | 0.3 | DWR-162 | Seeds | 5.0 qtls | 5,375/- | 11,000/- | 1:2.04 |
| Pulses |  |  |  |  |  |  |  |  |  |
| Horse gram | 03-08-2013 | 09-12-2013 | 0.3 | GPM-6 | Seeds | 2.40 qtls | 4,120/- | 6,000/- | 1:1.45 |
| Red gram | 06-08-2013 | 15-01-2014 | 0.4 | TS-3R | Seeds | 4.29 qtls | 8,975/- | 19,150/- | 1:2.13 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Oilseeds |  |  |  |  |  |  |  |  |  |
| Soybean | 13-06-2013 | 25-09-2013 | 0.6 | JS-335 | Seeds | 9.0 qtls | 18,560/- | 51,000/- | 1:2.74 |
| Fruits |  |  |  |  |  |  |  |  |  |
| Tamarind | 1995-96 | March-2012 | 2.58 | MTI-Series & Local | Fruit | Harvesting and Dehulling – under progress | | | |
| Hy.Napier | 20-07-2012 | Dec-2012 to March 2014 | 0.4 | APBN-1 | Fodder grass | 66.5 | 11,650/- | 20,000/- | 1:1.71 |
| Guinea | 01-08-2012 | Dec-2012 to March 2014 | 0.6 | G-1 | Fodder grass | 107.5 | 18350/- | 43,000/- | 1:2.34 |
| Rhodes | 02-08-2012 | Dec-2012 to March 2014 | 0.4 | Keladi kotambari | Fodder grass | 50.0 | 9115/- | 15,000/- | 1:1.84 |

**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 | Vegetable special | 274 Kgs | 20,550/- | 41,100/- | - |
| 2 | VAM | 760.33 Kgs | 6125/- | 39,260/- | - |
| 3 | Vermicompost | 2000 kgs | - | 5000/- | - |
| 4 | Liquid Fertilizer | 120 Lits | 3000/- | 12,000/- | - |
| 5 | Pongamia oil cake | 1470 Kgs | Byproduct of biodiesel production | 22050/- | - |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.**  **No** | **Name**  **of the animal / bird / aquatics** | **Details of production** | | | **Amount (Rs.)** | | **Remarks** |
| **Breed** | **Type of Produce** | **Qty.** | **Cost of inputs** | **Gross income** |
| 1 | Buffaloes | Pandrapuri | Milk | 507.5 lits | 6565/- | 10,150/- | 1:1.54 |
| 2 | Buffaloes | Pandrapuri & Surthi | Animal | 02 | Sold | 30,000/- | - |
| 3 | Buffalo Calf | Surthi | Animal | 01 | Sold | 5,000/- | - |
| 4 | Carp seeds | Common carp and rohu | Fingerlings | 3000 | 150 | 900 | - |
| 5 | Edible fish | Rohu and common carp | Edible fish  (for consumption) | 7 kgs | - | 480 | - |
| 6 | Ornamental fishes | 5 varieties of guppy | For ornamental purpose | 840 | - | 1680 | - |

**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- 2013 | - | - | - |
| May- 2013 | - | - | - |
| June- 2013 | 110 | 15 | - |
| July- 2013 | 21 | 15 | - |
| August- 2013 | 21 | 31 | - |
| September- 2013 | 21 | 30 | - |
| October- 2013 | 21 | 15 | - |
| November- 2013 | - | - | - |
| December- 2013 | - | - | - |
| January-2014 | - | - | - |
| February- 2014 | - | - | - |
| March- 2014 | 1 | 11 | - |

**13.F. Database management**

|  |  |  |
| --- | --- | --- |
| **S. No** | **Database target** | **Database created** |
| 1 | Staff Field visit database | Created (Using Visual Basic and MS Access) |
| 2 | Soil and water testing database | Created (Using Visual Basic and MS Access) |
| 3 | ICT video conference database | Created (Using Visual Basic and MS Access) |
| 4 | Seed and planting materials database | Created (Using Visual Basic and MS Access) |
| 5 | Farmers visit to KVK database | Created (Using Visual Basic and MS Access) |
| 6 | PHDC data base | Created (Using Visual Basic and MS Access) |
| 7 | Library database | Created (Using Visual Basic and MS Access) |
| 8 | Extension Activities database | Created (Using MS Excel) |
| 9 | Training database | Created (Using MS Excel) |
| 10 | Discipline wise photo album | Created (Using HTML) |
| 11 | Literature developed database | Created (Using MS Excel) |
| 12 | Web site with online database | Created (Using ASP. Net and SQL server) |
| 13 | Revolving Fund status database | Created (Using Visual Basic and MS Access) |

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

**PART XIV - FINANCIAL PERFORMANCE**

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Bank account** | **Name of the bank** | **Location** | **Branch code** | **Account Name** | **Account Number** | **MICR Number** | **IFSC Number** |
| With Host Institute | 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 2013-14 (Rs. in lakh)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.**  **No.** | **Particulars** | **Sanctioned** | **Released** | **Expenditure** |
| **A. Recurring Contingencies** | | | | |
| 1 | **Pay & Allowances** | 8640000 | 8640000 | 8638630 |
| 2 | **Traveling allowances** | 125000 | 125000 | 125000 |
| 3 | **Contingencies** | | | |
| *A* | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 190000 | 190000 | 190057 |
| *B* | POL, repair of vehicles, tractor and equipments | 220000 | 220000 | 220000 |
| *C* | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained) | 50000 | 50000 | 46450 |
| *D* | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | 50000 | 50000 | 49699 |
| *E* | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | 266000 | 266000 | 262906 |
| *F* | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | 100000 | 100000 | 100494 |
| *G* | Training of extension functionaries | 15000 | 15000 | 14995 |
| *H* | Maintenance of buildings | 40000 | 40000 | 39993 |
| *I* | Extension Activities | 42000 | 42000 | 42172 |
| *J* | Farmers Field School | 30000 | 30000 | 29925 |
| *k* | Library | 5000 | 5000 | 5000 |
| **TOTAL (A)** | | **9773000** | **9773000** | **9765321** |
| **B. Non-Recurring Contingencies** | |  |  |  |
| 1 | **Works** |  |  |  |
| 2 | **Equipments including SWTL & Furniture** | 0 | 0 | 0 |
| 3 | **Vehicle** (Four wheeler/Two wheeler, please specify) | 0 | 0 | 0 |
| 4 | **Library** (Purchase of assets like books & journals) | 0 | 0 | 0 |
| **TOTAL (B)** | |  |  |  |
| **C. REVOLVING FUND** | | 0 | 0 | 0 |
| **GRAND TOTAL (A+B+C)** | | **9773000** | **9773000** | **9765321** |

**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 2011 to  March 2012 | 737212 | 1748732 | 1583923 | 902021 |
| April 2012 to  March 2013 | 902021 | 511027 | 1035067 | 377980 |
| April 2013 to  March 2014 | 377980 | 1179328 | 435323 | 1121985 |

**15. Details of HRD activities attended by KVK staff during 2013-14**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of the staff** | **Designation** | Title of the training programme | Institute where attended | Dates |
| D C Chougala | SMS  (Pl Protection) | War on Nematodes | IIHR, Bangalore | 26-10-2013 |
| D C Chougala | SMS  (Pl Protection) | ATMA- SREP revisiting | ADA Gokak | 28-10-2013 |
| M. N. Malawadi | SMS Agronomy | Assessment of Maize Situation outlook Investment opportunities for ensuring food Security in Asia(IMMYT) | UAS- DharwadStaff training Hall | 26th April-2013 |
| M. N. Malawadi | SMS Agronomy | Certification and Inspection System of Organic Farming in India | Regional Centre of Organic Farming Bangalore | 07 to 11Oct-2013 |
| M. N. Malawadi | SMS Agronomy | Sandal Based Agro- Forestry Models for KVKs of Karnataka and Goa | Institute of Wood Science and Technology (ICAR) Bangalore | 6th to 8th January-2014 |
| Adarsha H.S | SMS Fisheries | Recent advances in fisheries | CMFRI, Kochin | 15-07-2013 to 21-07-2013 |
| Adarsha H.S | SMS Fisheries | Community Radio | UAS, Dharwad | 18-11-2013 To 21-11-2013 |
| Adarsha H.S | SMS Fisheries | One day sensitization workshop on FMD control and strategies for KVKs | IVRI, Bangalore | 01-02-2014 |
| S.S.Sharma | Programme Assistant | Triners training on Organic Certification and ICS Management | Regional Centre for Organic Farming | 7-10-2013 to 11-10-2013 |
| S.S.Sharma | Programme Assistant | SREP | ATMA Belgaum | 27-9-2013 to 30-9-2013 |
| N R Salimath | Programme Assistant –Lab tech& sericulture | Orientation cum workshop on mango and Sapota orchard development and intercropping with mulberry | NABARD at  Bangalore  NABARD at  Chikkamangalore | 17-9-2013 13-2-2014 |
| N R Salimath | Programme Assistant –Lab tech& sericulture | HRD training on “Sharpening of management skills” for KVK staff | Karnataka Veterinary, Animal & Fisheries Science University, Bidar | 28th to 30th October 2013 |
| G.S.Patted | Farm manager | National Semi nor on Urban Horticulture and Roof Top Gardening | GKVK,Bangalore | 27&28 October 2013 |

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

**SUMMARY FOR 2013-14**

# I. TECHNOLOGY ASSESSMENT

**Summary of 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)** |
| Varietal Evaluation | Turmeric | Short duration variety- Pratibha | 4 | 4 | 0.15 |
|  |  |  |  |  |
| Integrated Disease Management | Cabbage | Assessment of IDM practices against black rot of cabbage | 7 | 7 | 0.15 |
|  |  |  |  |  |
| Resource Conservation Technology | Turmeric | Propagation of turmeric through finger cuttings. | 4 | 4 | 0.6 |
|  |  |  |  |  |
| **Total** |  |  | **15** | **15** | **0.9** |

**Summary of technologies assessed under livestock**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Thematic areas** | **Name of the livestock enterprise** | **Name of the technology assessed** | **No. of trials** | **No. of farmers** |
| Production and management | Inland fisheries | Assessment of productivity of stunted fingerlings | 3 | 3 |
|  | Inland fisheries | Assessment of compatibility and survivality of Pangasius species in tilapia infested tanks. | 3 | 3 |
| **Total** | | | **3** | **3** |

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

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

# II. TECHNOLOGY REFINEMENT

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

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

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

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

**III. FRONTLINE DEMONSTRATION**

**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)** | | | |
| **Demo** | | | | **Check** | | **Demonstration** | **Check** | **Gross**  **Cost** | **Gross**  **Return** | **Net Return** | **\*\***  **BCR** | **Gross**  **Cost** | **Gross**  **Return** | **Net Return** | **\*\***  **BCR** |
| **H** | | **L** | **A** |
| Oilseeds |  |  |  |  |  |  | |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| Soybean | ICM | Integrated Nutrient (Ca, B Zn & Fe), insect (defoliators IPM) and disease (rust – DSb21) management in soybean | 1 | 10 | 4 | 34.56 | | 24.15 | 29.37 | 22.89 | | 28.31 | Population/ m2 12.18 | 9.58 | 24073 | 69889 | 45816 | 2.9 | 23390 | 54483 | 31093 | 2.3 |
| 100 grain weight 103.74 | 78.97 |
| No. of pods/hill 91.48 | 79.52 |
| No. of nodules/ plant 1.40 | 2.28 |
| Blue beetle /plant At 32 DAS 0.66 | 1.98 |
| At 47 DAS 3.54 | 4.82 |
| Spodoptera /mt At 32 DAS 3.54 | 4.82 |
| At 47 DAS 2.04 | 3.94 |
| At 75 DAS 2.46 | 1.42 |
| Rust PDI Nil | 46.22 |
| Pulses |  |  |  |  |  |  | |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| Redgram | ICM | Seeds (TS – 3R) : 12.5kg,  Trichoderma: 0.5kg,  Rhizobium:0.5kg,  PSB: 0.5kg,  Sulphur : 15.0 kg,  HNPV: 250 LE,  Methomyl :600 gm,  Thiamethoxam : 200gm,  H. Traps : 10Nos  H. Lures : 30Nos and  Soil test : 1 no/ac | 1 | 10 | 4.0 | 23.75 | | 17.75 | 19.48 | 14.90 | | 31.03 | No. of seeds/pod 275 Nos | 253Nos | 8017 | 35055 | 27038 | 1:3.95 | 6509 | 26628 | 20119 | 1:4.1 |
| No. of seeds/hill 813 | 750 |
| 100 gain weight (g) 13.9 | 12.4 |
| Bengal gram | ICM | Seeds-62.5kg  Rhizobium :1250gm  Tricoderma: 1000gm  PSB:1250gm  Neemicidine : 2000ml.  Prophenophous :2000ml  Pheromone traps -10Nos  Lures-30Nos | 1 | 10 | 4.0 |  |  | |  | |  |  | Yet to submit Final report | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cereals |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Maize | Zn& Fe management + IDM in Maize | Zn& Fe management + IDM (fungicide & nutrient mgt) | 1 | 10 | 4 | 68.75 | 60.87 | 63.60 | 52.33 | 21.54 | PDI – TLB 26.2 | 38.6 | 26673 | 89040 | 62367 | 3.34 | 24592 | 73262 | 48670 | 2.98 |
| PDI – Rust 21.4 | 37.2 |
| Grain Wt./cob 197 | 169 |
| No. of rows/cob 16 | 14 |
| 100 gain weight (g) 29.5 | 24.3 |
| Vegetables | ICM | Micronutrient, need based pest and disease management | 1 | 10 | 4 | Demonstration on yet to conclude and crop is fruiting stage and is Rabi/summer crop. | | | | | | | | | | | | | | |
| Fruit | ICM | Micronutrient, need based pest and disease management | 1 | 20 | 8 | Demonstration on yet to conclude and crop is fruiting stage | | | | | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Commercial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sugarcane | Nursery raising and Zn & Fe management | Protrays 482Nos:  Coco pith: 213kg  Zinc: 25kg  FeSO4:25kg | 1 | 5 | 2.0 | 166.98 | 146.88 | 159.67 | 134.82 | 24.80 | No of tillers /eye bud 10 | 1.5 | 76954 | 351120 | 274116 | 1:4.56 | 94108 | 296604 | 202586 | 1:3.15 |
| Single cane weight (Kgs) 1.30 | 1.02 |
| Yield ton/ha 159.60 | 134.82 |
| Sugarcane | Nursery raising and Zn & Fe management | Protrays 482Nos:  Coco pith: 213kg  Zinc: 25kg  FeSO4:25kg |  | 10 | 2.0 | Sugarcane – Crop is under progress | | | | | | | | | | | | | | |

\* 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 : Nil

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 | Varietal evaluation | Amur common carp for higher productivity | 1 | 4 | 4 | 1127.2 Kg/0.2ha | 771.5Kg/0.2ha | 46.10 | Avg. weight 704.5 gms | Avg. weight 482.2 gms | 12000 | 84540 | 72540 | 7.045 | 10520 | 57862 | 47342 | 5.50 |

Other enterprises

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Category** | **Name of the technology demonstrated** | **No. of KVKs** | **No. of Farmer** | **No.of units** | **Major parameters**  **(Cocoon yield)** | | **% 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** |
| Sericulture | PHOSHAN multi- nutrient foliar spray to mulberry | 3 | 5 | 5 | 58 | 43.6 | 33.03 | (Leaf yield Kg/acre) 2934 | 2153 | 5785 | 22040 | 16255 | 3.8 | 6535 | 8686 | 2151 | 1.3 |
| Sericulture | FC1xFC2 silkworm breeds | 3 | 6 | 6 | 70.84 | 68.65 | 3.2 | Randitta 5.78 | 6.92 | 4791 | 31169 | 26379 | 6.5 | 4791 | 24028 | 19237 | 5.0 |

\* 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: Nil

Farm implements and machinery : Nil

**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** |  |  |  |  |  |  |  |  |  |  |
| Maize | Seed Tech 740 | 10 | 4 | 63.60 | 52.33 | 21.54 | 26673 | 89040 | 62367 | 3.34 |
| Total |  | 10 | 4 | 63.60 | 52.33 | 21.54 | 26673 | 89040 | 62367 | 3.34 |

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** |  |  |  |  |  |  |  |  |  |  |
| Integrated Crop Management | 1 | 20 | 1 | 21 | 1 | 0 | 1 | 21 | 1 | 22 |
| **Livestock Production and Management** |  |  |  |  |  |  |  |  |  |  |
| Stall feeding method of goat farming | 1 | 12 | 0 | 12 | 7 | 0 | 7 | 19 | 0 | 19 |
| **Plant Protection** |  |  |  |  |  |  |  |  |  |  |
| Integrated Pest Management | 1 | 20 | 0 | 20 | 0 | 0 | 0 | 20 | 0 | 20 |
| Integrated Disease Management | 1 | 10 | 0 | 10 | 0 | 0 | 0 | 10 | 0 | 10 |
| **TOTAL** | **4** | **62** | **1** | **63** | **8** | **0** | **8** | **70** | **1** | **71** |

**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 | 26 | 1 | 27 | 3 | 0 | 3 | 29 | 1 | 30 |
| Micro Irrigation/Irrigation | 1 | 14 | 0 | 14 | 2 | 1 | 3 | 16 | 1 | 17 |
| Nursery management | 1 | 26 | 1 | 27 | 3 | 0 | 3 | 29 | 1 | 30 |
| Integrated Crop Management | 1 | 30 | 0 | 30 | 3 | 0 | 3 | 33 | 0 | 33 |
| Integrated Nutrient Management | 1 | 16 | 1 | 17 | 2 | 0 | 2 | 18 | 1 | 19 |
| **Horticulture** |  |  |  |  |  |  |  |  |  |  |
| **a) Vegetable Crops** |  |  |  |  |  |  |  |  |  |  |
| Production of low value and high volume crop | 6 | 53 | 1 | 54 | 0 | 0 | 0 | 53 | 1 | 54 |
| Grading and standardization | 1 | 8 | 5 | 13 | 2 | 3 | 5 | 10 | 8 | 18 |
| Organic vegetable production | 5 | 148 | 2 | 150 | 0 | 0 | 0 | 148 | 2 | 150 |
| **b) Fruits** |  |  |  |  |  |  |  |  |  |  |
| Cultivation of Fruit | 1 | 16 | 4 | 20 | 0 | 0 | 0 | 16 | 4 | 20 |
| Organic Banana production | 1 | 8 | 1 | 9 | 0 | 0 | 0 | 8 | 1 | 9 |
| **c) Spices** |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify)Resource Conservation Technology | 1 | 23 | 8 | 31 | 0 | 0 | 0 | 23 | 8 | 31 |
| **Soil Health and Fertility Management** |  |  |  |  |  |  |  |  |  |  |
| Soil fertility management | 1 | 20 | 0 | 20 | 1 | 0 | 1 | 21 | 0 | 21 |
| Integrated nutrient management | 1 | 0 | 0 | 0 | 8 | 15 | 23 | 8 | 15 | 23 |
| Soil and water testing | 4 | 79 | 6 | 85 | 15 | 13 | 28 | 94 | 13 | 107 |
| **Plant Protection** |  |  |  |  |  |  |  |  |  |  |
| Integrated Pest Management | 7 | 205 | 2 | 206 | 46 | 1 | 47 | 211 | 47 | 258 |
| Integrated Disease Management | 1 | 10 | 0 | 10 | 35 | 0 | 35 | 10 | 35 | 45 |
| **Sericulture** |  |  |  |  |  |  |  |  |  |  |
| Importance POSHAN multinutrient foliar spray to mulberry with RDF | 2 | 16 | 5 | 21 | 28 | 10 | 38 | 44 | 15 | 59 |
| Mulberry leaf production technology | 1 | 0 | 0 | 0 | 26 | 0 | 26 | 26 | 0 | 26 |
| Adoption of recent technologies in sericulture | 1 | 17 | 3 | 20 | 0 | 0 | 0 | 17 | 3 | 20 |
| Motivation in sericulture | 1 | 36 | 0 | 36 | 0 | 0 | 0 | 36 | 0 | 36 |
| Importance of mulberry intercropping in mango orchard | 1 | 0 | 0 | 0 | 22 | 5 | 27 | 22 | 5 | 27 |
| **Production of Inputs at site** |  |  |  |  |  |  |  |  |  |  |
| Vermi-compost production | 1 | 0 | 0 | 0 | 22 | 1 | 23 | 22 | 1 | 23 |
| **TOTAL** | **41** | **751** | **40** | **790** | **218** | **49** | **267** | **894** | **162** | **1056** |

**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** |
| Raising of Nursery in Sugarcane cultivation | 2 | 50 | 1 | 51 | 5 | 0 | 5 | 55 | 1 | 56 |
| **TOTAL** | **2** | **50** | **1** | **51** | **5** | **0** | **5** | **55** | **1** | **56** |

**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** |
| Production of organic inputs | 1 | 33 | 0 | 33 | 50 | 0 | 50 | 83 | 0 | 83 |
| **TOTAL** | **1** | **33** | **0** | **33** | **50** | **0** | **50** | **83** | **0** | **83** |

**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** |
| Integrated Pest Management | 1 | 11 | 1 | 12 | 0 | 0 | 0 | 11 | 1 | 13 |
| Production and use of organic inputs | 1 | 17 | 1 | 18 | 3 | 0 | 3 | 20 | 1 | 21 |
| Composite fish farming | 2 | 33 | 9 | 42 | 0 | 0 | 0 | 33 | 9 | 42 |
| **Total** | **4** | **61** | **11** | **72** | **3** | **0** | **3** | **64** | **11** | **76** |

**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** |
| Integrated Pest Management | 1 | 19 | 0 | 19 | 0 | 0 | 0 | 19 | 0 | 19 |
| **Total** | **1** | **19** | **0** | **19** | **0** | **0** | **0** | **19** | **0** | **19** |

**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 | Others- Biofuel awareness training sponsored by KSBDB for gram panchayat members of 5 taluks | 28 | 1573 | 242 | 1815 | 0 | 0 | 0 | 1573 | 242 | 1815 |
|  | **Total** | **28** | **1573** | **242** | **1815** | **0** | **0** | **0** | **1573** | **242** | **1815** |

**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** |  |  |  |  |  |  |  |  |  |  |
| **2** | Commercial floriculture | 1 | 2 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 |
| **3** | Sericulture | 6 | 0 | 0 | 0 | 4 | 0 | 4 | 4 | 0 | 4 |
|  | **Grand Total** | **7** | **2** | **0** | **2** | **4** | **0** | **4** | **6** | **0** | **4** |

V. Extension Programmes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activities** | **No. of programmes** | **No. of farmers** | **No. of Extension Personnel** | **TOTAL** |
| Advisory Services | 133 | 279 | 11 | 290 |
| Diagnostic visits | 97 | 285 | 19 | 304 |
| Field Day | 9 | 659 | 35 | 694 |
| Group discussions | 53 | 942 | 71 | 1013 |
| Kisan Ghosthi | 9 | 79 | 2 | 81 |
| Kisan Mela | 9 | 5000 | 52 | 5052 |
| Exhibition | 1 | 0 | 0 | 0 |
| Scientists' visit to farmers field | 308 | 1229 | 76 | 1305 |
| Animal health camps | 3 | 30 | 3 | 33 |
| Method Demonstrations | 11 | 308 | 21 | 329 |
| Celebration of important days (Parthenium awareness week) | 11 | 96 | 4 | 100 |
| Exposure visits | 2 | 27 | 0 | 27 |
| Others (Extension literature distributed) | 590 | 1833 | 12 | 1835 |
| Farmers visit to KVK | 716 | 963 | 59 | 1022 |
| Lecture delivered as resource person | 123 | 6818 | 737 | 7555 |
| Soil health camp | 3 | 42 | 3 | 45 |
| **Total** | **2078** | **18580** | **1105** | **19685** |

Details of other extension programmes

|  |  |
| --- | --- |
| **Particulars** | **Number** |
| Extension Literature | 2 |
| News Letter | 2 |
| News paper coverage | 6 |
| Technical Articles | 6 |
| Technical Bulletins | 1 |
| Technical Reports | 0 |
| Radio Talks | 4 |
| TV Talks | 8 |
| Animal health amps (Number of animals treated) | 1800 |
| Others (Folders) | 5 |

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

**Production of seeds by the KVKs**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Crop category | **Name of the crop** | **Name of the variety**  **(if hybrid pl. specify)** | **Quantity of seed**  **(qtl)** | **Value**  **(Rs)** | **Number of farmers to whom provided** |
| Cereals (crop wise) | Wheat | DWR-162 | 5.0 | 11,000/- | 07 |
| Oilseeds | Soybean | JS-335 | 9.0 | 51,000/- | 16 |
| Pulses | Horse gram | GPM-6 | 2.40 | 6,000/- | 08 |
| Red gram | TS-3R | 4.29 | 19,150/- | 12 |
| **Total** |  |  | **20.69** | **87150** | **43** |

# Production of planting materials by the KVKs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Crop category** | **Name of the crop** | **Variety** | **Number** | **Value (Rs.)** | **Number of farmers to whom provided** |
| Commercial |  |  |  |  |  |
| Mango grafts | Mango | Alphanso | 2260 | 67,750/- | 60 |
| Guava Grafts | Guava | L-49 | 1106 | 33,180/- | 28 |
| Guava seedlings | Guava | Local | 500 | 5000/- | Stock |
| Jamun Seedlings | Jamun | Local | 200 | 2000/- | Stock |
| Fruits | Tamarind | MTI-Series | Harvesting & Dehulling-Under progress | | |
| Fodder crop saplings | Guinea | G-1 | 28000 | 28000/- | 8 |
| Hybrid napier | APBN-1 | 20000 | 20000/- | 8 |
| Tamarind seedlings | Tamarind | Local | 1000 | 10,000/- | Stock |
| Jamun seedlings | Jamun | Local | 200 | 2000/- | Stock |
| Others(specify) Fodder grass | Guinea | G-1 | 50 tons | 15000 | 5 |
| Rhodes | Keladi kotambari | 50 tons | 15000 | 5 |
| Seedlings | mulberry | Victory-1 | 3600 | 1800 | 2 Sericulturists of Yelpatti farmers of Gokak taluk |
| **Total** |  |  | **56866** | **169730** | **106** |

**Production of Bio-Products**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Bio Products** | **Name of the bio-product** | **Quantity Kg** | **Value (Rs.)** | **Number of farmers to whom provided** |
| Bio Fertilizers | VAM | 760.33 | 39,260/- | 85 |
| Micronutrient | Vegetable special | 274 | 41,100/- | 26 |
| Others (specify) Organic Manure | Vermi compost | 1000 | 3000/- | 05 |
| Liquid Fertilizer | 120 | 12,000/- | - |
| Bio Fertilizers | Pongamia oil cake | 1470 | 22050 | 14 |
| **Total** | | **3624.33** | **117410** | **130** |

# Production of livestock and related enterprise materials

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Particulars of Live stock | **Name of the breed** | **Number** | **Value (Rs.)** | **Number of farmers to whom provided** |
| **Dairy animals** |  |  |  |  |
| Buffaloes | Pandrapuri | 1 | 20,000/- | 1 |
| Surthi | 1 | 10,000/- | 1 |
| Calves | Surthi | 1 | 5,000/- | 1 |
| **Fisheries** |  |  |  |  |
| Fingerlings | Carps | 3000 | 900/- | 3 |
| Edible fishes | Carps | 7 | 480/- | 5 |
| Ornamental fishes | Guppies | 840 | 1680/- | 8 |
| **Total** |  | **3850** | **38060** | **19** |

**VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS 2013-14**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages | Amount realized (Rs.) |
| Soil Samples | 334 | 282 | 35 | **53400/-** |
| Water Samples | 52 | 52 | 7 | **100/-** |
| Plant samples | 97 | 97 | 34 | - |
| Manure samples | **-** | **-** | **-** | **-** |
| Others (specify) | **-** | **-** | **-** | **-** |
| Total | 386 | 334 | 42 | **53500/-** |

VIII. SCIENTIFIC ADVISORY COMMITTEE: Nil

**IX. NEWSLETTER: Number of issues of newsletter published: 2**

**X. RESEARCH PAPER PUBLISHED: Nil**

**XI. DETAILS ON RAIN WATER HARVESTING STRUCTURE: Nil**

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