**ANNUAL REPORT 2014-15**

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

**KRISHI VIGYAN KENDRA**

**Belagavi-i**

**(tukkanatti)**

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 |
| D.C.Chougala | - | 09480751345 | kvkbirds@gmail.com  pcbelgaum@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** | **Pay**  **Scale** | **Basic pay** | **Date of joining** | **Permanent**  **/Temporary** | **Category** |
| 1 | Programme Coordinator | Vacant | Programme Coordinator | Nil | - | - | 37400-67000 | Nil | Nil | Permanent | Nil |
| 2 | SMS | D C Chougala | SMS | M | Plant Protection | M.Sc. (Agri. Plant Protection) | 15600-39100 | 33470 | 01.03.1998 | Permanent | Others |
| 3 | SMS | M N Malawadi | SMS | M | Agronomy | M.Sc. (Agronomy) | 15600-39100 | 27420 | 06.04.2004 | Permanent | SC |
| 4 | SMS | Vacant | SMS | Nil | Home Science | M.H.Sc. (Home Science) | 15600-39100 | Nil | Nil | Permanent | Nil |
| 5 | SMS | Adarsha H S | SMS | M | Fisheries | M.Sc. (Fisheries) | 15600-39100 | 23640 | 14.11.2011 | Permanent | OBC |
| 6 | Against SMS | S S Sharma | Against SMS | M | Horticulture | M.Sc. (Horticulture) | 9300-34800 | 21010 | 28.08.2000 | Permanent | Others |
| 7 | SMS | Vacent | SMS | Nil | Animal Science | Nil | 15600- 39100 | Nil | Nil | Permanent | Nil |
| 8 | Programme Assistant( Lab Tech.)/T-4 | N R Salimath | Programme Assistant  (Lab Tech.) / T-4 | M | Lab Tech/ Sericultue | M.Sc. (Sericulture) | 9300-34800 | 24770 | 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 | 17260 | 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 | 24270 | 29.11.1996 | Permanent | Others |
| 11 | Assistant | Mahantesh M | Assistant | M | Assistant | B.com (M.Com) | 9300-34800 | 17260 | 01.05.2008 | Permanent | OBC |
| 12 | Jr. Stenographer | Basavaraj P Ambiger | Store Keeper | M | Store Keeper | B.A | 5200-20200 | 12220 | 20.03.1995 | Permanent | OBC |
| 13 | Driver | L.S.Pujari | Driver | M | Driver | SSLC | 5200-20200 | 12220 | 20.03.1995 | Permanent | OBC |
| 14 | Driver | K K Shidbagol | Driver | M | Driver | SSLC | 5200-20200 | 12030 | 16.11.1996 | Permanent | OBC |
| 15 | Supporting staff | G S Shingadi | Peon | M | Peon | SSLC | 5200-20200 | 10750 | 20.03.1995 | Permanent | OBC |
| 16 | Supporting staff | A M Koli | Watchman | M | Watchman | SSLC | 5200-20200 | 10750 | 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 | 115491 | 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 Cushions | 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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl. No. | Crop | Area (ha) | Production (MT) | Productivity (kg/ha) |
| 1 | Paddy | 63695 | 139572 | 3217 |
| 2 | Jowar | 120947 | 170959 | 1231 |
| 3 | Bajra | 7579 | 11639 | 640 |
| 4 | Maize | 133166 | 544162 | 3637 |
| 5 | Ragi | 903 | 867 | 671 |
| 6 | Wheat | 47291 | 76503 | 1485 |
| 7 | Red gram | 2314 | 1955 | 366 |
| 8 | Black gram | 1200 | 1166 | 341 |
| 9 | Horse gram | 5180 | 2079 | 473 |
| 10 | Green gram | 4074 | 4895 | 251 |
| 11 | Bengal gram | 41764 | 43201 | 667 |
| 12 | Groundnut | 37427 | 33840 | 829 |
| 13 | Soybean | 65676 | 64715 | 866 |
| 14 | Sunflower | 13449 | 16928 | 854 |
| 15 | Safflower | 4847 | 7796 | 1391 |
| 16 | Cotton | 22675 | 84455 | 394 |
| 17 | Sugarcane | 252335 | 18027470 | 101 |
| 18 | Tobacco | 15706 | 25664 | 1459 |

\* Source: District Economics & Statistical Department, Belagavi

2.5. Weather data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Month | Rainfall (mm) | Temperature 0 C | | Relative Humidity (%) | |
| Maximum | Minimum | Maximum | Minimum |
| April | 28.8 | 35 | 24 | 74 | 54 |
| May | 115.8 | 38 | 23 | 73 | 43 |
| June | 76.7 | 29 | 21.0 | 89 | 77 |
| July | 226.2 | 26 | 20.8 | 94 | 84 |
| August | 191.9 | 28 | 18 | 82 | 72 |
| September | 74.8 | 28 | 19 | 90 | 75 |
| October | 109.6 | 29 | 20 | 73 | 54 |
| November | 38.2 | 30 | 15 | 72 | 53 |
| December | 22.5 | 30 | 12 | 76 | 37 |
| January | 0.8 | 31 | 18 | 54 | 22 |
| February | 0.0 | 32 | 17 | 58 | 45 |
| March | 27.1 | 38 | 21 | 44 | 13 |

* 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 2014-15 Yes / No: **Yes**

**2.8 Details of Operational area / Villages**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Taluk** | **Name of the block** | **Name of the village** | **Since how long village covered** | **Major crops & enterprises** | **Major problem identified** | **Identified Thrust Areas** |
| 1 | Athani | Telasung | Aigali | 1 Year | Redgram | Wilt disease, Helicoverpa Armijer | Integrated Crop Management |
| Telasung | Kohalli | 1 Year | Bengalgram | Improper nutrient management, pod borer, wilt and rust disease | Integrated Crop Management |
| Athani | Siddewadi | 1 Year | Sorghum | Low grain and fodder yield | Varietal Evaluation |
| 2 | Hukkeri | Sankeshwar | Ammanagi | 1 Year | Bengalgram | Wilt disease and Helicopverpa armijer | Integrated Crop Management |
| 1 Year | Bengalgram | Pod Borer | Integrated Pest Management |
| 1 Year | Soybean | Rust and anthracnose disease, improper nutrient management, defoliators (Spodoptera and blue beetle) | Integrated Crop Management  Assessment of Anthracnose disease management |
| 3 Years | Sericulture | Low quality of existing breed CSR(2x4) | Integrated Crop Management |
| 3 Years | Sericulture | Lack of knowledge in soil testing & Improper RDF management | Integrated Nutrient Management |
| 3 Years | Sericulture | Low quality cocoons & high expenditure | Integrated Nutrient Management |
| Nerli | 3 Years | Sericulture | Low quality of existing breed CSR(2x4) | Varietal Evaluation |
| Hukkeri | Ghodageri | 1 Year | Sugarcane | High cost, low yield and less tillers | Integrated Nutrient Management |
| Hukkeri | Sindihatti | 1 Year | Groundnut | Long durated and tikka disease | Varietal Evaluation |
| Hukkeri | Yadagud | 1 Year | Crop production, Live stock and NRM | Droughr frost and high intensive rainfall | Resource Conservation Technology |
| 3 | Raibag | Harugeri | Harugeri | 3 Years | Carps | Low productivity of carps | Small Scale Income Generation Enterprise |
| Slow growth of local comman carp | Small Scale Income Generation Enterprise |
| Raibag | Itnal | 2 Years | Carps | Low productivity due to small size seed stocking | Small Scale Income Generation Enterprise |
| 1 Year | Bengalgram | Wilt disease and Helicoverpa armijer | Integrated Crop Management |
| Raibag | Kankanawadi | 5 Years | Banana | Low yield, high pest and disease incidence | Integrated Crop Management |
| 4 | Gokak | Gokak | Jamunal | 3 Years | Sericulture | Nutritional deficiency in leaves caused low yield, wt & Shell % in cocoon, Single spray with POSHAN is lesser effective | Integrated Nutrient Management |
| Gokak | Madwal | 1 Year | Brinjal | Low yield, small fruit, pest and disease | Integrated Crop Management |
| Gokak | Pudakalakatti | 1 Year | Sericulture | Lack of knowledge in soil testing & Improper RDF management. | Integrated Nutrient Management |
| Arabhavi | Naganur | 3 Years | Sericulture | Low quality and yield in cocoons | Integrated Crop Management |
| Rajapur | 3 Years | Sericulture | Low quality and yield in cocoons | Integrated Crop Management |
| 1 Year | Sericulture | Reduced quality cocoons by poor quality leaves | Integrated Nutrient Management |
| Tukkanatti | 1 Year | Cabbage | Small heads due to destruction of foliage because of black rot disease | Integrated Disease Management |
| 3 Years | Sericulture | Low quality and yield in cocoons | Integrated Crop Management |
| 1 Year | Sericulture | Reduced quality cocoons by poor quality leaves | Integrated Nutrient Management |
| Gokak | Gilihosur | 3 Years | Sericulture | Nutritional deficiency in leaves caused low yield, wt & Shell % in cocoon, Single spray with POSHAN is lesser effective | Integrated Nutrient Management |
| 3 Years | Sericulture | Erratic rainfall | Integrated Crop Management |
| 5 | Chikkodi | Examba | Nanadi | 1 Year | Carps | Alkaline and saline soils | Small Scale Income Generation Enterprise |
| Chikodi | Examba, Nanadi | 1 Year | Fisheries | Carp farming in alkaline and saline, water logged areas | Utilization of existing resources |
| 6 | Ramadurga | Ramadurga | Mallur | 1 Year | Bengalgram | Improper nutrient management, pod borer, wilt and rust disease. | Integrated Crop Management |
| 7 | Saudatti | Yaragatti | Mugalihal | 1 Year | Bengalgram | Improper nutrient management, pod borer, wilt and rust disease | Integrated Crop Management |

**2.9 Priority thrust areas**

|  |  |
| --- | --- |
| **S. No** | **Thrust area** |
| 1 | Integrated crop management in Soybean, Jowar, Red gram, Maize, Bengal gram, Banana, Brinjal |
| 2 | Integrated pest (insect, disease and weed) management in soybean, redgram, Bengalgram, cabbage, brinjal, banana, tomato, sugarcane cabbage |
| 3 | Iron and Zinc management in Sugarcane, Maize |
| 4 | Promotion of new varieties JG-11 in Bengal gram and TS-3R in Redgram, |
| 5 | Promotion of Nursery raising in Sugarcane |
| 6 | Integrated pest (insect disease and weed) management in soybean, redgram, Bengalgram, cabbage, brinjal, banana, tomato, sugarcane cabbage |
| 7 | Multinutrient (Poshan) foliar double spray to mulberry for quality leaf yield and cocoons productivity |
| 8 | Assessment of azolla as feed supplement for quality cocoons |
| 9 | FC1xFC2 breed demonstration in silk worm breed |
| 10 | Stunted fingerling production for higher production |
| 11 | Pangasius farming to reduce cannibalism |
| 12 | Carp farming in alkaline, saline and waterlogged area |
| 13 | Carp farming in alkaline, saline and waterlogged area |

**PART III - TECHNICAL ACHIEVEMENTS**

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **OFT** | | | | **FLD** | | | |
| **1** | | | | **2** | | | |
| **Number of OFTs** | | **Number of farmers** | | **Number of FLDs** | | **Number of farmers** | |
| **Targets** | **Achievement** | **Targets** | **Achievement** | **Targets** | **Achievement** | **Targets** | **Achievement** |
| 6 | 5 | 30 | 23 | 13 | 11 | 108 | 85 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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** |
| 50 | 55 | 1500 | 1939 | 1000 | 1332 | 20000 | 21308 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Seed Production (Qtl.)** | | **Planting materials (Nos.)** | |
| **5** | | **6** | |
| **Target** | **Achievement** | **Target** | **Achievement** |
| 25kg Cocoon | 23.8kg Cocoon | Mango grafts :105 | 95 |
| Cereals – Wheat 20 | Wheat 18.5 | Custard apple : 500 | 410 |
| Pulse – Red gram:4  Bengal gram: 1 | 3.7  0.5 | Guava seedlings : 1000 | 1000 |
| Oilseed – Soybean: 10 | 8.16 | Jamun Seedlings: 150 | 100 |
| Tamarind Seedlings:225 | 200 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Livestock, poultry strains and fingerlings (No.)** | | **Bio-products (Kg)** | |
| **7** | | **8** | |
| **Target** | **Achievement** | **Target** | **Achievement** |
| Goat | 15 | VAM : | 25 |
| Carp Fingerlings | 1932 | Vegetable special : | 203 |
| Ornamental  fishes | 860 | Pongamia oil cake : | 751 |

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

| **S. No** | **Thrust area** | **Crop/**  **Enterprise** | **Identified Problem** | **Interventions** | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Title of OFT if any** | **Title of FLD if any** | **Number of Training (farmers)** | **Number of Training (Youths)** | **Number of Training (extension personnel)** | **Extension activities**  **(No.)** | **Supply of seeds (Qtl.)** | **Supply of planting materials (No.)** | **Supply of livestock (No.)** | **Supply of bio products** | |
| **No.** | **Kg** |
| 1 | Varietal Evaluation | Sorghum | Low grain and fodder yield | Assessment of different genotypes of sorghum M,35-1, SPV-2217 | - | 1 | - | - | 5 | 18- | - | - | - | - |
| 2 | ICM | Red gram | Wilt disease, Helicoverpa armigera | - | ICM | 3 | 1 | - | 9 | 0.50 | - | - | 1.Rhizobium  2.PSB | 5  5 |
| 3 | ICM | Bengal gram | Wilt disease and Helicopverpa armigera | - | ICM | 1 | - | - | 7 | 2.50 | - | - | 1.Rhizobium  2.PSB | 6  6 |
| 4 | Varietal Evaluation | Groundnut | Long durated and tikka disease | Assessment of different genotypes of groundnut Dh-86,TAG-24, Kadari-6 and Kadari-9 | - | 1 | - | - | 4- | 180 | - | - | - | - |
| 5 | Integrated crop management | Soybean | Rust and disease, improper nutrient management, defoliators (Spodoptera and blue beetle) | Integrated crop management in Soybean | - | 2 | - | - | 5 | - | - | - | - | - |
| 6 | SSI & Zinc and Iron Management | Sugarcane | High cost, low yield and less tillers | - | SSI-PROTRAY Seedlings & Zinc and Iron Management in sugarcane | 3 | 2 | - | 8 | - | - | - | - | - |
| 7 | SSI and Integrated Nutrient Management | Sugarcane | High cost, low yield and less tillers | - | Nursery raising and zinc and iron management | - | - | - | 3 | - | - | - | - | - |
| 8 | Integrated Disease Management | Cabbage | Small heads due to destruction of foliage because of black rot disease | Integrated Disease Management | - | 1 | 2 | - | 6 | - | - | - | - | - |
| 9 | ICM | Brinjal | Low yield | - | ICM in brinjal | 2 | - | - | 20 | - | - | - | - | - |
| 10 | ICM | Banana | Low yield | - | ICM in banana | 3 | - | - | 25 | - | - | - | - | - |
| 11 | Azolla feed supplement for quality cocoons | Silkworm | Reduced quality in cocoons by poor quality leaves. | Azolla as feed supplement for quality cocoons in silkworm rearing | - | 1 | 0 | 0 | 15 | - | 4 | - | - | - |
| 12 | Refinement of POSHAN multinutrient foliar double spray to mulberry for increase quality and leaf yield | Silkworm | Nutritional deficiency in leaves caused low yield, wt & Shell % in cocoon, Single spray with POSHAN is lesser effective | Refinement of POSHAN multinutrient foliar double spray to mulberry for increase quality and leaf yield | - | 1 | - | - | 12 | - | - | - | - | - |
| 13 | Improved quality breed FC1 X FC2) double hybrid | Silkworm | Low quality of existing breed CSR (2X4) | - | Improved quality breed  (FC1 X FC2) double hybrid | 3 | - | - | 10 | - | - | - | - | - |
| 14 | Soil fertility management | Field and commercial crops | Lack of knowledge in soil testing & Improper RDF management | - | - | 3 | - | - | 21 | - | - | - | - | - |
| 15 | ICM | Mulberry | Reduced cocoons quality and yield | - | - | 1 | - | - | 4 | - | - | - | - | - |
| 16 | Stunted fingerling production for higher production | Inland fish farming | Mortality of small sized carp seeds | - | Stunted fingerling for higher productivity | 1 | 1 | - | - | - | - | 29,000 of fish seeds | - | - |
| 17 | Pangasius farming to reduce cannibalism | Inland fish farming | Cannibalism of carp seeds by tilapia and other reverine fishes in early stages | Assessment of survivality and compatibility of Pangasius in tilapia infested water bodies | - | 1 | - | - | - | - | - | 16,750 no.s of Pangasius seeds | - | - |
| 18 | Higher production through farming Amur common carp | Inland fish farming | Lower productivity of Common carp due to prolific breeding | - | Amur common carp for higher productivity | 1 | - | - | - | - | - | 3900 no.s of Amur Common carp seeds | - | - |
| 19 | Inland fish farming in alkaline saline and water logged areas | Inland fish farming | Under utilization of alkaline, saline and water logged ares | Carp farming in alkaline, saline and water logged | Carp farming in alkaline, saline and waterlogged area | 1 | - | - | - | - | - | 38,000 no.s of carp seeds | - | - |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl. 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 | UAS Dharwad | Redgram | - | 10 | 3 | 1RY |
| 2 | ICM bengalgram | UAS Dharwad | Begalgram | - | 10 | 3 | - |
| 3 | SSI-PROTRAY Seedlings & Zinc and Iron Management in sugarcane | TNAU and UAS Dharwad | Sugarcane | - | 10 | 3 | 2 RY |
| 4 | Nursery raising and zinc and iron management | TNAU and UAS Dharwad | Sugarcane | - | 8 | - | - |
| 5 | Assessment of different genotypes of sorghum M,35-1, SPV-2217 | UAS Dharwad | Sorghum | 6 | - | 1 | - |
| 6 | Assessment of different genotypes of groundnut Dh-86,TAG-24, Kadari-6 and Kadari-9 | UAS Dharwad | Groundnut | 6 | - | 1 | - |
| 7 | Integrated crop management in Soybean | UAS Dharwad | Soybean | - | 1 | 2 | 5 |
| 8 | Integrated Disease Management in cabbage | UAS Dharwad and OFT Results | Cabbage | - | 1 | 2 | 6 |
| 9 | Integrated crop management in banana | IIHR Bangalore | Banana | - | 1 | 3 | 25 |
| 10 | Integrated crop management in brinjal | IIHR Bangalore | Brinjal | - | 1 | 2 | 20 |
| 11 | Assessment of Azolla as feed supplement for quality cocoons in silk worm rearing | UAS Dharwad | Sericulture | 1 | - | 1 | 15 |
| 12 | Refinement of POSHAN multinutrient foliar double spray to mulberry for increase quality and leaf yield | CSR&TI Mysore | Sericulture | 1 | - | - | 12 |
| 13 | Demonstration of silkworm breed FC1XFC2 | CSR&TI Mysore | Sericulture | - | 1 | 3 | 10 |

**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** |
| - | - | - | - | 10 | - | - | - | 80 | - | 3 | - | - | - | - | - |
| - | - | - | - | 9 | 1 | - | - | 36 | 2 | - | - | - | - | - | - |
| - | - | - | - | 9 | 1 | - | - | 57 | 3 | 5 | - | - | - | - | - |
| - | - | - | - | 7 | - | 1 | - | - | - | - | - | - | - | - | - |
| 4 | - | 2 | - | - | - | - | - |  |  |  |  |  |  |  |  |
| 5 | 1 | - | - | - | - | - | - | 23 | - | 4 | - | - | - | - | - |
| - | - | - | - | - | - | - | - | 36 | - | - | - | 34 | - | 5 | - |
| - | - | - | - | 10 | - | 1 | - | 50 | - | - | - | 159 | - | 8 | - |
| - | - | - | - | 10 | - | - | - | 33 | - | - | - | 124 | 5 | - | - |
| - | - | - | - | 30 | - | 1 |  | 75 | 2 | 5 | - | 132 | 5 | 8 | 2 |
| 03 | - | - | - | - | - | - | - | 13 | - | - | - | 65 | - | - | - |
| - | - | 5 | 1 | - | - | -- | - | - | - | - | - | - | - | 48 | 4 |
| - | - | - | - | 4 | 1 | - | - | 38 | - | 07 | - | - | - | - | - |

**PART IV - On Farm Trial**

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

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Thematic areas** | **Cereals** | **Oilseeds** | **Pulses** | **Commercial Crops** | **Vegetables** | **Fruits** | **Flower** | **Plantation crops** | **Tuber Crops** | **TOTAL** |
| Integrated Nutrient Management |  |  |  |  |  |  |  |  |  |  |
| Varietal Evaluation | 1 | 1 |  |  |  |  |  |  |  | 2 |
| Integrated Pest Management |  |  |  |  |  |  |  |  |  |  |
| Integrated Crop Management |  |  |  | 1 |  |  |  |  |  | 1 |
| Integrated Disease Management |  |  |  |  |  |  |  |  |  |  |
| Small Scale Income Generation Enterprises |  |  |  |  |  |  |  |  |  |  |
| Weed Management |  |  |  |  |  |  |  |  |  |  |
| Resource Conservation Technology |  |  |  |  |  |  |  |  |  |  |
| Farm Machineries |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming System |  |  |  |  |  |  |  |  |  |  |
| Seed / Plant production |  |  |  |  |  |  |  |  |  |  |
| **Total** | **1** | **1** |  | **1** |  |  |  |  |  | **3** |

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

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

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

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

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

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

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Thematic areas** | **Crop** | **Name of the technology assessed** | **No. of trials** | **Number of farmers** | **Area in ha (Per trail covering all the Technological Options)** |
| Varietal Evaluation | Sorghum | M,35-1, SPV-2217 varieties | 6 | 6 | 2.4 |
| Groundnut | Dh-86,TAG-24, Kadari-6 and Kadari-9 varieties | 6 | 6 | 1.2 |
| Integrated Crop Management | Mulberry/  Sericulture | Normal feeding of leaves | 3 | 3 | 0.20 |
| Mulberry/  Sericulture | Spraying of 25% azolla extract, @250 ml in 1lit water on fresh mulberry leaves on bed for 50 DFLs after 4th moult to spinning. | 3 | 3 | 0.20 |
| Mulberry/  Sericulture | Spraying of 50% azolla extract, @500 ml in 1lit water on fresh mulberry leaves on bed for 50DFLs after 4th moult to spinning | 3 | 3 | 0.20 |
| **Total** | | | **21** | **21** | **4.2** |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Thematic areas** | **Crop** | **Name of the technology assessed** | **No. of trials** | **Number of farmers** | **Area in ha (Per trail covering all the Technological Options)** |
| Integrated Nutrient Management | Mulberry/  Sericulture | RDF+ Foliar spray with HARITH @ 500ml in 200 liter of water for 0.4ha,  1st spray10 to 15 days, 2nd spray 20 to 25 days of pruning, double spray.(2.5ml/ lit ) | 6 | 6 | 3.0 |
| Mulberry/  Sericulture | RDF+ Foliar spray with PHOSHAN@, 1000 ml in 140 liter of water for 0.4ha, 25 to 30 days after pruning, single spray.(7ml/lit) | 6 | 6 | 3.0 |
| Mulberry/  Sericulture | RDF+ Foliar spray with PHOSHAN @ 1000ml in140 liter of water for 0.4ha,1st spray10 to 15 days, 2nd spray 20 to 25 days of pruning, double spray (7ml/lit) | 6 | 6 | 3.0 |
| **Total** |  |  | **18** | **18** | **9** |

**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 | Fisheries | Assessment of survivality and compatibility of pangasius in tilapia infested water bodies | 3 | 3 |
| **Total** | | | **3** | **3** |

**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** |
| Sorghum | Irrigated | Low grain and fodder yield | Assessment of different genotypes of sorghum M,35-1, SPV-2217 | 6 | Local | 1.Plant hight (cms)grain Wt. (g) | 172.05  25.45 | Yield (qtl./ha) 10.20 | SPV-2217 sorghum cultivar increases yield up to 15 % | - | - |
| M,35-1 | 1.Plant hight (cms) grain Wt. (g) | 195.40  26.75 | Yield (qtl./ha) 11.56 | - | - |
| SPV-2217 | 1.Plant hight (cms)grain Wt. (g) | 220.10  28.22 | Yield (qtl./ha) 13.35 | - | - |
| Groundnut | Irrigated | Long durated and tikka disease | Assessment of different genotypes of groundnut Dh-86,TAG-24, Kadari-6 and Kadari-9 | 6 | Dh-86, TAG-24, Kadari-6 and Kadari-9 | Germination %  100 seed weight(g) | Under progress | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Mulberry/  Sericulture | Irrigated | Reduced cocoons quality due to feeding of poor quality leaves | Assessment of Azolla as feed supplement for quality cocoons in silk worm rearing | 3  3  3 | Normal feeding of leaves  Spraying of 25% azolla extract, @250 ml in 1lit water on fresh mulberry leaves on bed for 50 DFLs after 4th moult to spinning.  Spraying of 50% azolla extract, @500 ml in 1lit water on fresh mulberry leaves on bed for 50DFLs after 4th moult to spinning | FP- 1. Mortality of worms (%) 2.Avg weight of 5 matured cocoons 3. Shell ratio (%)4. RandittaT1- 1. Mortality of worms (%) 2.Avg weight of 5 matured cocoons 3. Shell ratio (%)4. RandittaT2- 1. Mortality of worms (%) 2.Avg weight of 5 matured cocoons 3. Shell ratio (%)4. Randitta | 24  7.26  18  7.2  16  8.86  20  6.25  11  9.02  22  6.10 | T1-Avg cocoon yield kg per 100 DFLs =57.100  1.Avg cocoon yield kg per 100 DFLs =60.200  2.Increase  In yield (%)=5.42  1.Avg cocoon yield kg per 100 DFLs =63.830  2.Increase  In yield (%)=11.78 | Good quality cocoons increased rate from Rs 250/- to Rs 280/- | - | - |
| Fisheries | Irrigation | Cannibolism of carp seeds by tilapia and other river fishes during the early stages | Assessment of survivality and compatibility of pangasius in tilapia infested water bodies | 3 | Compatibility of Pangasius assessed with carps and reverine fishes | Length of fish in gms  Wight of fish in cms  Survival in % | 850gms  30 cms  38-40% | Pangasius shows good growth and higher compatibility with carps | Higher growth of Pangasius observed in 6 months | - | - |

**Contd..**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Technology Assessed** | **Source of Technology** | **Production** | **Please give the unit** | **Net Return (Profit) in Rs. / unit** | **BC Ratio** |
| **13** | **14** | **15** | **16** | **17** | **18** |
| **Sorghum :**  Technology option 1 (Farmer’s practice) | UAS-D | 10.20 | Yield (qtl./ha) | 17853 | 2.67 |
| Technology option 2 | UAS-D | 11.56 | Yield (qtl./ha) | 19304 | 2.48 |
| Technology option 3 | UAS-D | 13.35 | Yield (qtl./ha) | 24316 | 2.86 |
| **Groundnut:**  Technology option 1 (Farmer’s practice) | UAS-D | Under progress | | | |
| Technology option 2 | UAS-D |
| Technology option 3 | UAS-D And ARS Kadari |
| **Mulberry/ Sericulture** | | | | | |
| Technology option 1 (Farmer’s practice) | Farmers practice | Cocoon yield | Avg cocoon yield kg per 100 DFLs =57.100 | 7675 | 1.16 |
| Technology option 2 | UAS Dharwad | Cocoon yield | Avg cocoon yield kg per 100 DFLs =60.200 | 9623 | 1.33 |
| Technology option 3 | UAS Dharwad | Cocoon yield | Avg cocoon yield kg per 100 DFLs =63.830 | 10640 | 1.47 |
| **Fisheries** | | | | | |
| Technology option 1 (Farmer’s practice) | Rearing of small carp fry (2-2.5cm) in larger water bodies | 4525.2 | Kg/ha | 185200 | 3.15 |
| Technology option 2 | Rearing of *Pangasius* in tilapia infested tanks (Monoculture) | 6415 | Kg/ha | 290233 | 3.29 |
| Technology option 3 | Stocking carp fry + *Pangasius* in tilapia infested tanks (Poly culture) | 6434.1 | Kg/ha | 305085 | 3.70 |

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

details

**I.**

1. Title of Technology Assessed : Assessment of different genotypes of sorghum M,35-1, SPV-2217
2. Problem Definition : Low grain and fodder yield
3. Details of technologies selected for assessment : M, 35-1 and SPV-2217
4. Source of technology : UAS- Dharwad
5. Production system and thematic area : Cereal and Varietal evaluation
6. Performance of the Technology with performance indicators:

T0- Use of uncertified M,35-1 (Farmers practice)

T1- Certified M,35-1 (Recommended practice)

T2- SPV-2217 (Alternate Practice)

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No.** | **Trials** | **Plant hight (cms)** | **1000 grain Wt. (g)** | **Yield (qtl./ha)** |
| 1 | TO.1 | 172.05 | 25.45 | 10.20 |
| 2 | TO.2 | 195.40 | 26.75 | 11.56 |
| 3 | TO.3 | 220.10 | 28.22 | 13.35 |

1. Final recommendation for micro level situation: Trial may be conduct in sorghum growing area
2. Constraints identified and feedback for research: Moisture stress and researchers may develop short durated variety
3. Process of farmers participation and their reaction: Training,Group meetings and farmers convections

**II.**

1. Title of Technology Assessed : Assessment of different genotypes of groundnut TMV-2, Dh-86, TAG-24, Kadari-6 and Kadari-9
2. Problem Definition : Long durated and tikka disease
3. Details of technologies selected for assessment: Dh-86, TAG-24, Kadari-6 and Kadari-9
4. Source of technology : UAS- Dharwad and ARS Kadari
5. Production system and thematic area : Oilseed and Varietal evaluation
6. Performance of the Technology with performance indicators:

T0- Use of TMV-2 (Farmers practice)

T1- Dh-86 and TAG-24 (Recommended practice)

T2- Kadari-6 and Kadari-9 (Alternate Practice)

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

Programme under progress

1. Final recommendation for micro level situation: Trial may be conduct in groundnut growing area
2. Constraints identified and feedback for research: Researchers may develop variety having more period of germination viability
3. Process of farmers participation and their reaction: Training, Group meetings and farmers convections

**III.**

1. Title of Technology Assessed: Assessment of Azolla as feed supplement for quality cocoons in silk worm rearing
2. Problem Definition: Reduced cocoons quality due to feeding of poor quality leaves
3. Details of technologies selected for assessment: FP: Normal feeding of leaves

T1- Spraying of 25% azolla extract, @250 ml in 1lit water on fresh mulberry leaves on bed for 50 DFLs after 4th moult to spinning.

T2- Spraying of 50% azolla extract, @500 ml in 1lit water on fresh mulberry leaves on bed for 50DFLs after 4th moult to spinning

1. Source of technology: UAS Dharwad
2. Production system and thematic area: Azolla extract oral feed supplement through spray on fresh mulberry on bed, red soil, irrigated situation, Northern dry zone.

# Performance of the Technology with performance indicators: Mortality of worms (%) , Avg weight of 5 matured cocoons, Shell ratio (%), Randitta

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

Mortality of worms %): 11

Average weight of five matured cocoons: (gms): 9.02

1. Final recommendation for micro level situation: Recommend for Zone 3
2. Constraints identified and feedback for research: Standardization, proper formulation and method
3. Process of farmers participation and their reaction: Individual contact and group meeting, Increased in quality of cocoons and fetched higher rate.

**IV.**

1 Title of Technology Assessed: Assessment of survivality and compatibility of pangasius in tilapia infested water bodies

2 Problem Definition: Cannibolism of carp seeds by tilapia and other river fishes during the early stages

3 Details of technologies selected for assessment:

a. Farmers Practice: Rearing of small carp fry (2-2.5cm) in larger water bodies

b. Alternative Practice -1: Rearing of *Pangasius* in tilapia infested tanks (Monoculture)

c. Alternative Practice -2: Stocking carp fry + *Pangasius* in tilapia infested tanks (Poly culture)

4 Source of technology: KVAFSU, Bidar

5 Production system and thematic area: Inland fish farming and Production and Management

6 Performance of the Technology with performance indicators: Pangasius shows good compatibility with carps and higher growth rate

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

8 Final recommendation for micro level situation: In order to achieve the higher productivity in fish farming, Pangasius seeds to be stocked in community tanks, Gram panchayat, Taluk panchayat and Departmental tanks and also in reservoirs.

9 Constraints identified and feedback for research: Due to longer distance of seed transportation higher mortality occurred (>60%).

10 Process of farmers participation and their reaction: Much better participation of farmers is essential. Farmers are positively surprised to see the growth rate of Pangasius and Catla

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

**Results of On Farm Trial**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Crop/ enterprise** | **Farming situation** | **Problem definition** | **Title of OFT** | **No. of**  **trials** | **Technology refined** | **Parameters of refined** | **Data on the parameter** | **Results of refinement** | **Feedback from the farmer** | **Details of refinement done** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** |
| Mulberry/  Sericulture | Irrigated | Nutritional deficiency in leaves caused low yield, wt & Shell % in cocoon, Single spray with POSHAN is lesser effective | Refinement of PHOSHAN multi-nutrient foliar with double spray to mulberry for quality leaf and cocoons productivity | 6  6  6 | T1- RDF+ Foliar spray with HARITH @ 500ml in 200 liter of water for 0.4ha,  1st spray10 to 15 days, 2nd spray 20 to 25 days of pruning, double spray.(2.5ml/ lit )  T2- RDF+ Foliar spray with PHOSHAN@, 1000 ml in 140 liter of water for 0.4ha, 25 to 30 days after pruning, single spray.(7ml/lit)  T3- RDF+ Foliar spray with PHOSHAN @ 1000ml in140 liter of water for 0.4ha,1st spray10 to 15 days, 2nd spray 20 to 25 days of pruning, double spray (7ml/lit) | 1) Five plants leaf yield (kg) 2) No of leaves sprouted  1) Five plants leaf yield (kg) 2) No of leaves sprouted  1) Five plants leaf yield (kg) 2) No of leaves sprouted | 0.136  10  0.541  14  0.604  18 | a) Leaf yield (Kg/crop/ha)= 11,572  b)Cocoons yield Q/ha(1crop)= 285  a) Leaf yield (Kg/crop/ha)= 11,792  b)Cocoons yield Q/ha(1crop)= 287.6  a) Leaf yield (Kg/crop/ha)= 13205  b)Cocoons yield Q/ha(1crop)= 334.8 | Good quality cocoons fetched higher rate from Rs 245/-- to Rs 290/- | RDF+ Foliar spray with PHOSHAN @ 1000ml in140 liter of water for 0.4ha,1st spray10 to 15 days, 2nd spray 20 to 25 days of pruning, double spray (7ml/lit) |

**Contd..**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Technology Refined** | **Source of Technology for Technology Option1 /**  **Justification for modification of assessed**  **Technology Option 1** | **Production** | **Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)** | **Net Return (Profit) in Rs. / unit** | **BC Ratio** |
| Technology Option 1 (best performing Technology Option in assessment) | CSR&TI Mysore (Age old technology & no improvement over it) | T1-Leaf & Cocoon yield | a) Leaf yield (Kg/crop/ha)= 11,572  b) Cocoons yield Q/ha(1crop)= 285 | 34989 | 1.8 |
| Technology Option 2 (Modification over Technology Option 1) | CSR&TI Mysore (Lesser effective in cocoons quality from Single spray of POSHAN) | T2-Leaf & Cocoon yield | a) Leaf yield (Kg/crop/ha)= 11,792  b)Cocoons yield Q/ha(1crop)= 287.6 | 38368 | 1.9 |
| Technology Option 3 (Another Modification over Technology Option 1) | CSR&TI Mysore(More effective in cocoons quality from double spray of POSHAN) | T3-Leaf & Cocoon yield | a) Leaf yield (Kg/crop/ha)= 13,205  b)Cocoons yield Q/ha(1crop)= 334.8 | 52804 | 2.5 |

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

1. Title of Technology refined: Refinement of PHOSHAN multi-nutrient foliar with double spray to mulberry for quality leaf and cocoons productivity.
2. Problem Definition: a) Nutritional deficiency in leaves caused low yield, wt & Shell % in cocoon,

b) Single spray with POSHAN is lesser effective.

1. Details of technologies selected for refinement T1- RDF+ Foliar spray with HARITH @ 500ml in 200 liter of water for 0.4ha, 1st spray10 to 15 days, 2nd spray 20 to 25 days of pruning, double spray.(2.5ml/ lit )
2. T2- RDF+ Foliar spray with PHOSHAN@, 1000 ml in 140 liter of water for 0.4ha, 25 to 30 days after pruning, single spray.(7ml/lit)
3. T3- RDF+ Foliar spray with PHOSHAN @ 1000ml in140 liter of water for 0.4ha,1st spray10 to 15 days, 2nd spray 20 to 25 days of pruning, double spray (7ml/lit)
4. Source of technology: CSR&TI Mysore
5. Production system and thematic area: RDF+ Foliar double spray (7ml/lit) with PHOSHAN, 1st spray10 to 15 days, 2nd spray 20 to 25 days of pruning, red soil, irrigated situation, Northern dry zone
6. Performance of the Technology with performance indicators: Wt of 5 random plant leaf yield on the day of harvest (kg), Avg No of leaves sprouted on the day of harvest,
7. Feedback, matrix scoring of various technology parameters done through farmer’s participation / other scoring techniques : Wt of 5 random plant leaf yield on the day of harvest (kg) =0.604. Avg No of leaves sprouted on the day of harvest=18
8. Final recommendation for micro level situation: Recommend for Zone 3
9. Constraints identified and feedback for research: Proper formulation for double spray
10. Process of farmers participation and their reaction: Individual contact and group meeting, method demonstration, formulation, increased in quality of leaf & fetched higher rate for cocoons.

**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 | Rainfed | Kharif 2014 | Soybean | DSB-21 | - | ICM | Integrated Nutrient  (Ca, S, Zn),  Insect (defoliators IPM –viz. *N. releyii*) and  rust disease (Var: DSb-21) management | 3 | 3 | 1 | 9 | 10 | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | Pulses | Rainfed | Kharif-2014 | Redgram | TS-3R | - | ICM | Seeds (TS – 3R) : 12.5kg,  Rhizobium : 0.5 kg,  PSB : 0.5 kg,  Sulphur : 12.0 kg,  HNPV : 250 LE,  Indoxicarb :500ml  H. Traps : 7.5 Nos  H. Lures : 12 Nos  Soil test :10 no’s | 4.0 | 4.0 | - | 10 | 10 | - |
| Irrigated | Rabi-2014 | Bengalgram | GJ-11 | - | ICM | Seeds- 25kg/ac,  Rhizobium- 600gm/ac,  PSB- 600gm/ac  Idoxicarb 0.2lit. /ac,  NPV- 100LE/ac,  Pheromone traps -3Nos,  Lures-12Nos and soil test | 4.0 | 4.0 | - | 10 | 10 | - |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | Vegetables | Irrigated | Rabi-2014 | Brinjal | - | Manjri | ICM | Micronutrient,  Wilt management | 5.2 | 5.2 | - | 21 | 21 | - |
| Irrigated | Kharif 2014 | Cabbage | - | Saint | IDM | Seed treatment streptomycine sulphate @100 ppm and P. florescence (4g/kg) and seedling dip (2g/lit), Spray with streptomycin sulphate 0.5g +COC 3g/l -two sprays and spray of micronutrient after antibiotic spray-two sprays | 2 | 2 | - | 10 | 10 | - |
| 4 | Fruit | Irrigated | Kharif | Banana | G-9 | - | ICM | Micronutrient, Leaf spot management | 4.0 | 4.0 | 1 | 9 | 10 | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | Commercial | Irrigated | R/S-2013 -14 | Sugarcane | Co-86032 | - | SSI and Fe & Zn | Soil application of FeSo4:25kg/ha, and ZnSo4:25kg/ha,protrays-325Nos/ha and Coir pith- 215kgs /ha | 2.0 | 2.0 | - | 10 | 10 | - |
| Irrigated | R/S-2014 -15 | Sugarcane | Co-86032 | - | SSI and Fe & Zn | Soil application of FeSo4:25kg/ha, ZnSo4:25kg/ha,  protrays-313 Nos/ha and  Coir pith- 625kgs /ha | 3.2 | 3.2 | - | 8 | 8 | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | Sericulture | Irrigated | Rabi 2014 15 | Silkworm breed | FC1x FC2 | - | Demonstration of silkworm breed | FC1xFC2  silkworm breed | 500 DFLs | 500 DFLs | 0 | 5 | 5 | - |

**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 | Rainfed | Kharif 2014 | Soybean | DSB-21 | - | ICM | Integrated Nutrient (Ca, S, Zn),  Insect (defoliators IPM –viz. *N. releyii*) and  rust disease (Var: DSb-21) management | Kharif 2014 | 162.6 | 15.1 | 170.2 | Jowar, Bengal gram |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | Pulses | Rain fed | Kharif-2014 | Red gram | TS-3R | - | ICM | Seeds (TS – 3R) : 12.5kg,  Rhizobium : 0.5 kg,  PSB : 0.5 kg,  Sulphur : 12.0 kg,  HNPV : 250 LE,  Indoxicarb :500ml  H. Traps : 7.5 Nos  H. Lures : 12 Nos  Soil test :10 no’s | Kharif-2014 | 233 | 16 | 258 | Jowar, Bengal gram, Sunflower  Maize and cowpea |
| Irrigated | Rabi-2014 | Bengal gram | GJ-11 | - | ICM | Seeds-25kg/ac,  Rhizobium-600gm/ac,  PSB-600gm/ac  Idoxicarb 0.2lit. /ac,  NPV-100LE/ac,  Pheromone traps -3Nos,  Lures-12Nos and soil test | Rabi-2014 | 268 | 17 | 267 | Sugarcane, Soybean and  Maize |
| 3 | Vegetables | Irrigated | Rabi 2014 -15 | Brinjal | - | Manjri | ICM | Micronutrients, wilt management | Rabi 2014-15 | 287 | 18.6 | 259 | Beans, bendi |
| Irrigated | Kharif 2014 | Cabbage | - | Saint | IDM | Seed treatment streptomycine sulphate @100 ppm and P. florescence (4g/kg) and seedling dip (2g/lit), Spray with streptomycin sulphate 0.5g +COC 3g/l -two sprays and spray of micronutrient after antibiotic spray-two sprays | Kharif 2014 | 143 | 10 | 159 | Maize and Kapali wheat |
| 4 | Fruit | Irrigated | Kharif 2014-15 | Banana | G-9 | - | ICM | Micronutrients, Leaf spot management | Kharif 2014-15 | 229.1 | 11.9 | 193.1 | Sugarcane |
| 5 | Commercial | Irrigated | R/S-2013 -14 | Sugarcane | Co-86032 | - | SSI and Fe & Zn | Soil application of FeSo4:25kg/ha, and ZnSo4:25kg/ha,protrays-325Nos/ha and Coir pith- 215kgs /ha | R/S-2013-14 | 297 | 18 | 301 | Soybean , Sugarcane and Maize |
| Irrigated | R/S-2014 -15 | Sugarcane | Co-86032 | - | SSI and Fe & Zn | Soil application of FeSo4:25kg/ha, ZnSo4:25kg/ha,  protrays-313 Nos/ha and  Coir pith- 625kgs /ha | R/S-2014-15 | - | - | - | Soybean , and Maize |
| 6 | Sericulture | Irrigated | Rabi 2014 15 | Silkworm breed | FC1xFC2 | - | Demonstration of silkworm breed | FC1xFC2  silkworm breed | Rabi 2014 15 | 213.2 | 15 | 202.4 | 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 Nutrient (Ca, S, Zn),  Insect (defoliators IPM –viz. *N. releyii*) and  rust disease (Var: DSb-21) management | DSB-21 | - | Rainfed | 10 | 3 | 25.10 | 19.61 | 21.45 | 16.44 | 30.47 | 24754 | 64344 | 39590.4 | 2.60 | 26479 | 49326 | 22847 | 1.86 |
| Pulses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Red gram | Seeds (TS – 3R) : 12.5kg,  Rhizobium : 0.5 kg,  PSB : 0.5 kg,  Sulphur : 12.0 kg,  HNPV : 250 LE,  Indoxicarb :500ml  H. Traps: 7.5 Nos  H. Lures: 12 Nos  Soiltest 10 no’s | TS-3R | - | Rain fed | 10 | 4.0 | 19.10 | 16.25 | 17.70 | 14.32 | 23.60 | 21365 | 83190 | 61825 | 3.89 | 18878 | 63008 | 44130 | 3.34 |
| Bengal gram | Seeds-25kg/ac,  Rhizobium-600gm/ac,  PSB-600gm/ac  Idoxicarb 0.2lit. /ac,  NPV-100LE/ac,  Pheromone traps -3Nos,  Lures-12Nos and soil test | GJ-11 | - | Irrigated | 10 | 4.0 | 22.15 | 19.25 | 20.52 | 16.93 | 21.20 | 24000 | 98496 | 74496 | 4.10 | 19873 | 74792 | 54619 | 3.76 |
| Vegetables | ICM in brinjal | - | Manjri | Irrigated | 21 | 5.2 | 65.3 | 59.7 | 61.95 | 49.5 | 25.3 | 70312 | 309750 | 239437 | 5.3 | 69210 | 247500 | 178289 | 4.3 |
| Cabbage | Seed treatment streptomycine sulphate @100 ppm and P. florescence (4g/kg) and seedling dip (2g/lit), Spray with streptomycin sulphate 0.5g +COC 3g/l -two sprays and spray of micronutrient after antibiotic spray-two sprays | - | Saint | Irrigated | 10 | 2 | 256 | 206 | 234 | 161 | 45.34 | 83204 | 199155 | 115951 | 2.39 | 95909 | 137275 | 41366 | 1.43 |
| Fruit | ICM in banana | G-9 | - | Irrigated | 10 | 4.0 | 75.5 | 73.5 | 74.57 | 61.65 | 21.0 | 139030 | 596600 | 457570 | 4.3 | 139030 | 493200 | 354170 | 3.5 |
| Sugar cane | Soil application of FeSo4:25kg/ ha, and ZnSo4:25kg/ ha,protrays-325Nos/ ha and Coir pith- 215kgs /ha | Co-86032 | - | Irrigated | 10 | 2.0 | 162.00 Ton. | 145.45  Ton. | 154.99  Ton. | 130.32  Ton | 18.93 | 76447 | 348727 | 272281 | 4.57 | 92327 | 293445 | 201118 | 3.18 |
| Sugar cane | Soil application of FeSo4:25kg/ha, ZnSo4:25kg/ha,  protrays-313 Nos/ha and  Coir pith- 625kgs /ha | Co-86032 | - | Irrigated | 8 | 3.2 | 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** |
| **Redgram** |  |  |
| No. of seeds/pod | 4-5 | 5 |
| No. of seeds/hill | 675 | 698 |
| 100 gain weight (g) | 12.57 | 11.95 |
| **Bengalgram** |  |  |
| No. of seeds/pod | 1-2 | 1-2 |
| No. of Nodules/hill | 67 | 45 |
| 100 grain weight (g) | 18.2 | 14.6 |
| **Sugarcane** |  |  |
| No of tillers /eye bud | 11 | 08 |
| Single cane weight (Kgs) | 1.25 | 1.11 |
| Yield ton/ha | 154.99 | 130.42 |
| **Sugarcane** | Under progress | |
| **Soybean** |  |  |
| PDI – Rust Disease | - | 57.16 |
| 100 grain weight | 11.54 | 9.31 |
| No. of pods/hill | 92.15 | 61.20 |
| **Cabbage** |  |  |
| PDI- Black rot disease | 24.60 | 8.30 |
| **ICM in brinjal** |  |  |
| Average no. of fruits/plant | 35.7 | 27.2 |
| Average fruit weight/plant | 4.5kg | 3.6kg |
| **ICM in banana** | | |
| Average No. of leaves | 13.39 | 12.23 |
| Average stem girth | 65.64cm | 63.41cm |

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 | Stunted fingerling for higher productivity | Catla and Common carp | 5 | 1.0 | 9.8 | 3.9 | 7.5 | 4.8 | 54 | 44000 | 492268 | 448268 | 11.18 | 36952 | 318060 | 281107 | 8.6 |
| Amur Common carp for higher productivity | Amur Common carp | 2 | 0.4 | 5.6 | 5.3 | 5.43 | 4.52 | 20.05 | 72500 | 353124 | 2,80,624 | 4.8 | 86317 | 271516 | 185200 | 3.15 |
| Carp farming in alkaline, saline and water logged areas | Common carp | 5 | 1.0 | 4.7 | 4.2 | 4.25 | - | - | 86316 | 271515 | 185199 | 3.15 | - | - | - | - |

\* 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** |
| **Stunted fingerling for higher productivity** |  |  |
| Length in cms | 23.15 | |  |  |  | | --- | --- | --- | |  |  |  |   18.48 |
| Wight in gms | 1360.6 | 746.6 |
| Survival in % | 56.5 | 45.2 |
|  |  |  |
| **Amur Common carp for higher productivity** |  |  |
| Length in cms | 34.75 | 19.4 |
| Wight in gms | 811 | 390 |
| Survival in % | 70.5 | 52.2 |
|  |  |  |
| **Carp farming in alkaline, saline and water logged areas** |  |  |
| Length in cms | 19 | - |
| Wight in gms | 390 | - |
| Survival in % | 52 | - |

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 | Silkworm breed | FC1x FC2 | 05 | 500DFLs | 90.0 | 74.2 | 82.56 | 79.14 | 4.32 | 7416 | 30960 | 23544 | 4.2 | 7416 | 19389 | 11973 | 2.0 |

\* 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** |
| Egg hatching (%) | 89.6 | 81 |
| Worms mortality (%) | 10.4 | 21.6 |
| Wt.of Five matured worms (Gms) | 17.5 | 16.28 |
| Wt.of Five cocoons (Gms) | 10.8 | 8.86 |
| Shell ratio (%) | 22.2 | 18.6 |
| Renditta | 5.76 | 6.96 |

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

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No.** | **Activity** | **No. of activities organised** | **Number of participants** | **Remarks** |
| 1 | Field days | 3 | 269 | The field day was conducted on 09-10-2014  to popularize the technology |
| 2 | Farmers Training | 11 | 196 | Conducted OFF campus training on 30-05-2014, in the subject Importance of soil testing in mulberry  Conducted OFF campus training on 24-10-2014,subject Organic farming in sericulture |
| 3 | Media coverage | 4 | - | - |
| 4 | Training for extension functionaries | 1 | 15 | Conducted ON campus training on 27-10-2014,subject Improved silkworm rearing |
| 5 | Scientific field visit | 9 | 119 | To monitor, observation the crop performance, diagnose and precaution measures for silkworm disease during rearing period conducted extension activities on the following dates like,18-09-2014,19-09-2014,22-09-2014,07-10-2014,09-10-2014& 01-11-2014 |

**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 |
| Cabbage | Seed treatment streptomycine sulphate @100 ppm and P. florescence (4g/kg) and seedling dip (2g/lit), Spray with streptomycin sulphate 0.5g +COC 3g/l -two sprays and spray of micronutrient after antibiotic spray-two sprays | Saint | 10 | 2 | 256 | 206 | 234 | 161 | 45.34 | 83204 | 199155 | 115951 | 2.39 | 95909 | 137275 | 41366 | 1.43 |

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 | 3 | 45 | 0 | 45 | 1 | 0 | 1 | 49 | 0 | 49 |
| **Horticulture** |  |  |  |  |  |  |  |  |  |  |
| **a) Vegetable Crops** |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology | 1 | 78 | - | 78 | 3 | - | 3 | 81 | - | 81 |
| **Soil Health and Fertility Management** |  |  |  |  |  |  |  |  |  |  |
| Soil fertility management | 1 | 38 | 3 | 41 | - | - | 0 | 38 | 3 | 41 |
| **Livestock Production and Management** |  |  |  |  |  |  |  |  |  |  |
| Animal Nutrition Management | 1 | 2 | 23 | 25 | - | - | - | 2 | 23 | 25 |
| Animal Disease Management |  |  |  |  |  |  |  |  |  |  |
| Feed and Fodder technology | 1 | 4 | 21 | 25 | - | - | - | 4 | 21 | 25 |
| **TOTAL** | **7** | **167** | **47** | **214** | **4** | **0** | **4** | **174** | **47** | **221** |

**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 | 25 | - | 25 | 3 | - | 3 | 28 | - | 28 |
| Crop Diversification | 2 | 43 | - | 43 | 4 | - | 4 | 47 | - | 47 |
| Integrated Crop Management | 1 | 3 | 0 | 3 | 26 | 0 | 26 | 29 | 0 | 29 |
| Pest and disease management | 1 | 38 | - | 38 | 4 | - | 4 | 42 | - | 42 |
| Improved agronomic practices in field crops (NICRA) | 1 | 27 | 1 | 28 | 2 | - | 2 | 29 | 1 | 30 |
| Soil and water conservation (NICRA) | 1 | 31 | - | 31 | 1 | - | 1 | 32 | - | 32 |
| **Horticulture** |  |  |  |  |  |  |  |  |  |  |
| **a) Vegetable Crops** |  |  |  |  |  |  |  |  |  |  |
| Production of low value and high volume crop | 2 | 31 | 2 | 33 | 1 | - | 1 | 32 | 2 | 34 |
| Organic vegetable cultivation | 2 | 35 | 4 | 39 | 21 | - | 21 | 56 | 4 | 60 |
| **b) Fruits** |  |  |  |  |  |  |  |  |  |  |
| Cultivation of Fruit | 5 | 64 | - | 64 | 3 | - | 3 | 67 | - | 67 |
| Fruit based Integrated Farming System | 1 | - | 24 | - | - | - | - | - | 24 | 24 |
| **Soil Health and Fertility Management** |  |  |  |  |  |  |  |  |  |  |
| Soil fertility management | 1 | 11 | 0 | 11 | 4 | 0 | 4 | 15 | 0 | 15 |
| Integrated nutrient management | 1 | 13 | 0 | 13 | 2 | 0 | 2 | 15 | 0 | 15 |
| Soil and water testing | 1 | 18 | 0 | 18 | 16 | 0 | 16 | 34 | 0 | 34 |
| **Livestock Production and Management** |  |  |  |  |  |  |  |  |  |  |
| Animal Nutrition Management | 1 | 47 | - | 47 | - | - | - | 47 | - | 47 |
| **Plant Protection** |  |  |  |  |  |  |  |  |  |  |
| Integrated Pest Management | 2 | 95 | - | 95 | 2 | - | 2 | 97 | - | 97 |
| Integrated Disease Management | 3 | 100 | - | 100 | - | - | - | 100 | - | 100 |
| Composite fish culture | 2 | 36 | - | 36 | - | - | - | 36 | - | 36 |

**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** |
| Integrated pest Management | 2 | 18 | | 1 | | 19 | | - | | - | | - | | 18 | | 1 | | 19 |
| Integrated disease Management | 1 | 12 | | - | | 12 | - | | - | | - | | 12 | | - | | 12 | |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | | | | | | | | | |
| **General** | | | | | | **SC/ST** | | | | | | **Grand Total** | | | | |
| **Male** | **Female** | | **Total** | | | **Male** | | **Female** | | **Total** | | **Male** | | **Female** | | **Total** |
| Nursery Management of Horticulture crops | 1 | 61 | | 14 | | 75 | | - | | - | | - | | 61 | | 14 | | 75 |
| Integrated farming | 3 | 92 | | 4 | | 96 | | 8 | | - | | 8 | | 100 | | 4 | | 104 |
| Integrated pest Management | 2 | 89 | | 4 | | 93 | | 6 | | - | | 6 | | 95 | | 4 | | 99 |
| Integrated disease Management | 2 | 88 | | - | | 88 | 31 | | - | | 31 | | 119 | | - | | 119 | |

**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** |
| Contingencies crop plan to mitigate drought | 2 | 88 | | - | | 88 | - | - | - | 88 | - | 88 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | | | |
| **General** | | | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | | **Total** | | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| Productivity enhancement in field crops | 2 | 34 | | 11 | | 45 | 1 | - | 1 | 35 | 11 | 46 |

7.G. Sponsored training programmes conducted : Nil

**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** |  |  |  |  |  |  |  |  |  |  |
| 3.c. | Sheep and goat rearing | 1 | 31 | - | 31 | - | - | - | 31 | - | 31 |

**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 Days | 8 | 673 | 93 | 766 | 48 | 17 | 65 | 34 | 2 | 36 |
| Kisan Mela | 2 | 12300 |  | 12300 |  |  | 0 | 38 | 2 | 40 |
| Diagnostic Visits | 86 | 250 | 22 | 272 | 14 | 7 | 21 | 25 | 0 | 25 |
| Exposure Visits | 1 | 15 | 0 | 15 | 0 | 0 | 0 | 1 | 0 | 1 |
| Animal Camps | 2 | 97 | 12 | 109 | 5 | 2 | 7 | 6 | 0 | 6 |
| Field visits | 250 | 795 | 81 | 876 | 83 | 8 | 91 | 97 | 5 | 102 |
| Kisan Gosthi | 6 | 29 | 8 | 37 | 0 | 0 | 0 | 4 | 0 | 4 |
| Farmers visits to KVK | 319 | 376 | 65 | 441 | 38 | 7 | 45 | 12 | 3 | 15 |
| Advisory enquiry / Helpline services | 219 | 395 | 20 | 415 | 42 | 3 | 45 | 15 | 0 | 15 |
| Farm Science Club formation | 4 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| Extension literature distributed | 140 | 248 | 11 | 259 | 12 | 5 | 17 | 9 | 0 | 9 |
| Group meetings | 34 | 548 | 50 | 598 | 15 | 6 | 21 | 86 | 6 | 92 |
| Lectures delivered | 83 | 2930 | 415 | 3345 | 146 | 80 | 226 | 157 | 20 | 177 |
| Method demonstration | 10 | 85 | 15 | 100 | 20 | 8 | 28 | 15 | 0 | 15 |
| Pest Surveillance | 2 | 35 | 4 | 39 | 4 | 0 | 4 | 4 | 8 | 12 |
| Farmers exposure visit | 3 | 31 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sample analysis PHDC | 54 | 54 | 0 | 54 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | 1223 | 18865 | 796 | 19661 | 427 | 143 | 570 | 503 | 46 | 549 |

**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 | UAS-304 | - | 9.5 | 17100 | Stock |
| Wheat | MACS-6478 | - | 9.0 | 16200 | Stock |
| Oilseeds | Soybean | JS-335 |  | 8.16 | 24500 | 12 |
| Pulses | Red gram | TS-3R | - | 3.7 | 16750 | 18 |
| Bengal gram | JG-11 & Jaki-9218 | - | 0.5 | 2500 | Stock |
| Commercial crops | Cocoons | - | FC1xFC2 | 23.8kg Cocoon | 5300 | - |
| Vegetables |  |  |  |  |  |  |
| Flower crops | Mari gold | African Mari gold | - | 0.2 | 2000 | 1 |
| Spices | Turmeric | Salem | - | 11.28 | 39500 | Stock |
| **Total** | | | | **43.0** | **118550** | **31** |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Crop category** | **Name of the crop** | **Variety** | **Hybrid** | **Number** | **Value (Rs.)** | **Number of farmers to whom provided** |
| Commercial |  |  |  |  |  |  |
| Vegetable seedlings | Onion | Arka kalyan | - | 28.66 | 14330 | 1 |
| Dolichos | Nandini & Amar | - | 9.27 | 32448 | 1 |
| French bean | Tender green | - | 8.24 | 32960 | 1 |
| Fruits | Tamarind | MTI-Series | - | 6.25 | 25000 | 2 |
| Mango | Alphonso | - | 96 | 2880 | 1, Stock |
| Custard apple | Seedling | - | 410 | 8200 | Stock |
| Guava | Seedling | - | 1000 | 10000 | Stock |
| **Total** | | | | **52.42** | **104738** | **5** |

**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 | 25 | 1500 | Stock |
| Bio-pesticide | Pongamia oil cake | 751 | 15020 | 14 |
| Micronutrient | Vegetable special | 166  37 | 33050  5550 | Sold  Stock |
| Others (specify) Organic Manure | Vermi compost | 2500 | 7500 | Stock |
| **Total** | | **3479** | **62620** |  |

# 9.D. Production of livestock materials

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Particulars of Live stock | **Name of the breed** | **Number** | **Value (Rs.)** | **Number of farmers to whom provided** |
| Goat | Boyer and Local | 15 | 75000 | Stock |
| Carp Fingerlings | Common carp | 280  1600 | 725  4956 | 5  Stock |
| Ornamental fishes | Guppy, swordtile | 30  1000 | 60  1660 | 1  Stock |

**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, Periodicity, number of copies distributed etc.)

(B) Literature developed/published

|  |  |  |  |
| --- | --- | --- | --- |
| **Item** | **Title** | **Authors name** | **Number** |
| Technical bulletins | Sihi neerinalli sigadi saakaanike | Adarsh. H.S, D.C.Chougala, | 1000 |
| Folder | Bengalgram important cultivation practices | D.C.Chougala, M.N.Malawadi, G.S.Patted | 9500 |
| **TOTAL** | | | **10500** |

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

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

**1. Title of the Success Story: Spread of Rust resistant DSb-21 variety**

**Details of Success Story:**

**Background**: Soybean in one of the important Kharif crops of Belgaum district and every year more than 1.2 lakh hectare is being cultivated under this crop. Rust is one of the important diseases threatening in harvesting potential yield of soybean in the district. If sowing was late (after 15th June) then disease severity is usually more and directly affects on yield. In order to tackle this disease rust resistant variety with other management practice was demonstrated with the title of ICM in soybean. In demonstration villages viz. Kocheri and Narali, soybean is grown under rainfed situation and these two villages comes under transitional belt and usually good amount of rainfall occurs in these villages.

**Intervention Process:** During 2013-14, Front Line Demonstration on Integrated Crop Management in soybean was conducted in two villages (Kocheri and Nerali villages) of Hukkeri Taluka with the participation of 10 farmers. During the process of conducting this demonstration 3 training programmes, 4 group meetings, 7 field visits, 5 SMS tips, one field day, and one farmers Scientists (AICRP soybean, UAS Dharwad) interaction was organized.

**Intervention Technology:** Integrated crop Management Technology was demonstratedwith Rust Resistant Variety DSb-21, Nutrient management by Seed treatment with Rhizobium and PSB, Zinc Sulphate @ 12.5 kg/ha, Calcium and Sulphur management through Gypsum application @ 500kg/ha, Defoliator blue beetle and spodoptera management through use of monocrotophos and Nomureae rileyii, respectively.

**Impact Horizontal Spread:** The variety DSb-21 with its rust resistant character yield more in demonstration fields. This has motivated neighboring farmers to cultivate this variety during Kharif 2014-15. This variety was cultivated by many farmers by collecting seeds from demonstration farmers and also from UAS Dharwad. About 122 farmers cultivated this variety covering an area of 58.6 ha. This varietal technology was spread to Kocheri (26 farmers), (Hebbal 18 farmers), Nerali (24 farmers), Ammanagi (11 farmers), Hulloli (6 farmers), Khanapur (6 farmers) and Goudawad (19) farmers, Kamatanur (12 farmers).

**Impact Economic Gains:** The variety DSb-21 has yielded more (21-26 q/ha) without rust disease management spray measures and saved about 1400-1800 rupees per hectare. Farmers with variety JS 335 harvested 15-18 q/ha with rust management cost of Rs 1400 to 1800 per hectare. Even in early drought (late on set of Kharif in 2014 July 2nd week), it yielded 6 to 8q/ha more over local popular variety JS 335. It accounts 18000 to 24000 per hectare (market price 3000 Rs/q) and saving on rust management cost was rupees 1400 to 1700. So totally net gain per hectare was 19400 to 25700 rupees was earned.

**Impact on Employment Generation:** It directly not created any employment but in directly it created employment. It needs 2 -3 more labour for harvesting additional yield, threshing machine will get more work, etc.

**2. Title of the Success Story : Banana special boosts banana yield**

**Details of Success Story :**

**Background**: Mr. Ajit Naik is the native of Itnal village and of Raibag taluk of Belagavi district. The village lies under northern dry zone having full potentiality of irrigation. The sources of irrigation are canal, bore well and open well. The major crops are sugarcane, maize, banana, turmeric. Mr. Ajit Naik being young and enthusiastic farmer started to grow banana variety in the year 2008, in an area of 3 acre first 2 years he got good yield of up to 35 kg per bunch and on an average 31 kg, but in the second year the banana yield declined to 25 kg per bunch on an average and the leaf spot incidence was also found to be more compared to the previous years. So the yield reduced from 38.72 tons/acre to 30.25 tons/acre. His gross income also declained from Rs. 3,09,760/- to 2,42,000/-. He continued growing banana but wanted to improve the yield levels.

**Intervention Process:** He contacted the scientist of BIRDS KVK which is 15 kms from his village regarding the reduction of yield of banana crop. In 2013 KVK scientist visited his field and found that the reason for yield loss was due to micronutrient deficiency, improper use if major nutrients and cutting the Pseudostem soon after the bunch harvesting. In the village the same problem was with other banana growers. The scientist used intervention process like scientist field visit, advisory services, front line demonstration and method demonstration, trainings.

**Intervention Technology:**

1. Mettocking
2. Soil testing proper scheduling and timming and quantity of major nutrients as per the recommendation.
3. Use of foliar multinutrient - Banana special

**Impact Horizontal Spread:** The KVK conducted the FLD in 20 farmers field there was increase in the yield in the intervened field to the tune of 25%, looking in to the success of the technology other 31 growers started using the technology. The technology also spread to adjoining villages like Hidkal, Kankanawadi, Nipnal in 26 farmers field.

**Impact Economic Gains:** On an average he obtained 32 bunch weight and there was Rs. 3,87,200/- gross income / acre. Compared to untreated plots there was 75,000/- higher income per acre. If economic gain is considered in larger belt (75 acres the increased income is Rs. 56,25,000/-)

**Impact on Employment Generation:** The micro nutrient spray requires 5 labours/acre.

**3.**

**Title of the Success Story : Breed up gradation of goats**

**Background** : Rearing of local breeds which are slow growing and less yielding animals.

**Intervention Process:** Crossing local goats with Hegoats (Shirohi, Boyer and Usmana badi).

**Intervention Technology:** Cross breeding local goats with Hegoats.

**Impact Horizontal Spread:** More than 100 crossing in NICRA villages has resulted in a herd of quality, fast growing and high income fetching animals.

**Impact Economic Gains:** 3 months old kid fetches on an average of 2000/- more than local breeds.

**Impact on Employment Generation:** Farmers started stall feeding of hegoats which also fetches good income through crossing (100- 200/- per crossing)

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

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 | Vegetables | Spray of buttermilk (5ml/L) | For foliar diseases control |

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

- Identification of courses for farmers/farm women

- Rural Youth

- Inservice personnel

**10.G. Field activities**

i. Number of villages adopted

ii. No. of farm families selected

iii. No. of survey/PRA conducted

**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 | 2667 | 2187 | 244 | 499200 |
| Water Samples | 422 | 319 | 157 | 18050 |
| Plant samples | 218 | 218 | 68 | 0 |
| Total | **3307** | **2724** | **469** | **517250** |

Details of samples analyzed during the 2014-15 :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages | Amount realized (Rs.) |
| Soil Samples | 291 | 284 | 48 | 45700 |
| Water Samples | 43 | 40 | 24 | 2150 |
| Plant samples |  |  |  |  |
| Total | **334** | **324** | **72** | **47850** |

**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 | 218 | 218 | 68 | 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 | 54 | 54 | 37 | 0 |

**10.I. Technology Week celebration during 2013-14 Yes/No, If Yes**

Period of observing Technology Week: From 10/28/2014 to 11/1/2014

Total number of farmers visited : 402

Total number of agencies involved : 6

Number of demonstrations visited by the farmers within KVK campus : 5

Other Details

| **Types of Activities** | **No. of**  **Activities** | **Number of**  **Farmers** | **Related crop/livestock technology** |
| --- | --- | --- | --- |
| Gosthies |  |  |  |
| Lectures organized | 6 | 402 | On fisheries and disease management in livestock,  Improved technology in Sericulture  Lecture in IPM and Farmers interaction  Horticulture crop seminar |
| Exhibition | 1 | 402 | Fish breeds and fodder varieties |
| Film show | 8 | 402 | Bio fuel, Goat farming, Agriculture,  Horticulture, Sericulture crops film show |
| Farm Visit | 5 | 402 | Goat demo unit, Fish demo unit, Nursery Demo unit,  Shade net demo unit, Vermi compost demo unit, |
| Supply of Literature (No.) | 3 | 300 | Distributed information on organic farming and water management |

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

A. Introduction of alternate crops/varieties : Nil

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

C. Farmers-scientists interaction on livestock management: Nil

D. Animal health camps organized :

|  |  |  |  |
| --- | --- | --- | --- |
| **State** | **Number of camps** | **No.of animals** | **No.of farmers** |
| Karnataka | 2 | 1582 | 174 |

E. Seed distribution in drought hit states: Nil

F. Large scale adoption of resource conservation technologies : Nil

G. Awareness campaign : Nil

**PART XI. IMPACT**

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of specific technology/skill transferred** | **No. of participants** | **% of adoption** | **Change in income (Rs.)** | |
| **Before (Rs./Unit)** | **After (Rs./Unit)** |
| Rearing breed FCxFC2 2.Avg cocoons yield kgs/100 DFLS= 82.56 3.Avg Cocoon rate Rs= 375/- 4. Gross income Rs= 30960/- 5.Net income Rs=23544 | 5 | 100 | 19389 | 30960 |
| Management of Black rot disease of cabbage | 12 | 70 | 65754/ha | 105450/ha |
| Good growth 24.5 higher yield, less pest and disease incidence in Banana | 10 | 85 | 200000/ha | 235000/ha |
| Correction of micro nutrient deficiency 20 to 25% higher bunch yield, less disease incidence in Brinjal | 20 | 89 | 497600/ha | 600000/ha |

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

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

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

**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** |
| ATMA Raibag | Delivered Guest lecture under Bhoochetana programme on Importance of soil testing and micronutrient management in field crops. |
| ATMA Hukkeri | Delivered Guest lecture under Bhoochetana programme on Importance of soil testing and micronutrient management in field crops. |
| DATC Arbhavi | Attended in bimonthly meeting and Intervened for identified problems in sericulture and soil science |
| ASRB | Conducted PRA at NICRA village Yadgud, along with ASRB young scientists, transact walk,village mapping and collected basic information from village leaders and panchayath members |
| NICRA | Guest lecture delivered on importance of soil testing in field crops at Yadgud village of Hukkeri taluk, the workshop-cum-training programme was organised by ICAR young scientists. |
| CADA | Guest lecture delivered at KVK on "efficient use of irrigation and soil nutrient management" to CADA beneficiaries of Jamakandi Chikkodi, Athani, Bilagi taluk.farmers. |
| Horticulture Collage | Guest lecture delivered on enterprenuership development in sericulture to BSc Horticulture studants of KRCH Collage Arbhavi |
| Dept of Agriculture Gokak | Bhoochatan programme,organised by dept of agriculture Gokak at APMC for fecilitators,delivered guest lecture on "Importance of soil and water testing,sampling & recommendation in field crops" |
| Guest lecture for extension functionaries (AAOs) from DATC Arbhavi on soil sampling,grading,analysing and how to recommend to crops & advising to farmers. |
| Advisory & Guest lectures at Yarnal, delivered lecture on importance of soil testing in field crops under the programme of dept of agriculture Hukkeri |
| Dept of Agriculture Gokak & Syndicate Bank Hukkeri | Guest lectures at Bhadakundri, delivered guest lecture on importance of soil testing in sugarcane and maize, |
| Dept of AH & VS | Kisan day celebration,Gilihosur,conducted Animal Health Camp in collaboration with dept of AH & VS Gokak to the beneficiaries. 54 farmers, 76 buffalloes and 8 cows were treated with different diseases.  AHC in NICRA Village, Yadgud |
| KSDA – Raibag, Athani | Guest Lecture, Contingent crop planing |
| UAS – Dharwad | Seeds and technology procured, Farm trial |
| Agriculture College, Bijapur | Seeds and technology procured |
| ICAR DMR Pusa campus, New Delhi | Attended training on Maize production |
| MYRADA KVK | Attended PIMA training |
| NBAII, Bangalore | Disseminated information collected through training |
| Biocenter, Dept of Hort Belgavi | Disseminated information collected through training |
| NRCIPM, NewDelhi, | Pest surveillance |
| Dept of Agriculture Hukkeri | Pest surveillance |
| AICRP Dry Land, Vijaypur | To collect technical information for NICRA action plan preparation |
| ATMA | Guest lecture |
| Horticulture Department | Guest lecture |
| RCOF Bangaluru | PGS organic certification |
| KVAFSU, Bidar | Advanced Technology in animal husbandry and fisheries |
| FRIC (I), Hesaraghatta, Bengaluru | Amur Common carp seeds provided |
| FRIC (I),Hebbal, Bengaluru | Winter school on ’Entrepreneurship in Fisheries’ |
| Dept. of Fisheries, Belagavi | Fish seeds, training and extension programmes in fisheries |

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

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of the scheme** | **Role of KVK** | **Date/ Month of initiation** | **Funding agency** | **Amount (Rs.)** |
| Biofuel I & D center | Monitoring Biofuel production and conducting awareness training programmes | 04-07-2012 | Karnataka State Biofuel Development Board | 7.9 lakh |
| National Initiative Climate Resilient Agricultural (NICRA) | Implementation of the program me | January 2010-11 | CRIDA -Hydra bad (ICAR) New Delhi | 7.30 lakh |
| Integrated Tribal Development Project | Technical advice | 5/1/2011 | NABARD | 0 |
| Online pest monitoring and advisory services | Cotton pest surveillance And Advisory issue to the farmers to manage cotton pests | 6/1/2014 | NRCIPM New Delhi | 507000 lakh |

**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? Yes

KVK has actively participated in the preparation of SREP, along with ATMA staff.

**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)** |
| **1** | **Training programmes** | ICM in banana, Watermelon, turmeric | 3 | - | - |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Programme** | **Nature of linkage** | **Funds received if any Rs.** | **Expenditure during the reporting period in Rs.** | **Constraints if any** |
| 1 | Guest lecture | Resource person | - | - | - |

**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 2014** | 0 | 0 | 0 |
| **May 2014** | 0 | 0 | 0 |
| **June 2014** | 11 | 1627 | 0 |
| **July 2014** | 4 | 1792 | 0 |
| **August 2014** | 17 | 1890 | 6 |
| **September 2014** | 18 | 2015 | 0 |
| **October 2014** | 19 | 2385 | 0 |
| **November 2014** | 12 | 2518 | 0 |
| **December 2014** | 15 | 2950 | 0 |
| **January 2015** | 18 | 3428 | 0 |
| **February 2015** | 9 | 3850 | 0 |
| **March 2015** | 17 | 3850 | 0 |

**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 | Nursery | 2010 | 3000 sq.feet | Guava | Plants | 1000 | 1000 | 10000 | - |
| Custard apple | Plants | 410 | 1000 | 8000 | - |
| 2 | Sericulture | 2014-15 | 0.2 | Victory-1 & Vishal | Cocoons | 23.8 | 2500 | 5300 | - |

**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 | 29-10-2014 | 28-02-2015 | 0.4 | UAS-304 | Seeds | 9.5 | 7300 | 17100 | - |
| Wheat | 18-11-2014 | 09-03-2015 | 0.4 | MACS-6478 | Seeds | 9.0 | 7440 | 16200 | - |
| **Pulses** |  |  |  |  |  |  |  |  |  |
| Red gram | 07-08-2014 | 16-01-2015 | 0.4 | TS-3R | Seeds | 3.7 | 15399 | 16750 | - |
| Bengal gram | 05-12-2014 | 18-03-2015 | 0.1 | JG-11 & Jaki-9218 | Seeds | 0.5 | 1350 | 2500 | - |
| **Oilseeds** |  |  |  |  |  |  |  |  |  |
| Soybean | 06-08-2014 | 12-11-2014 | 0.6 | JS-335 | Seeds | 8.16 | 20316 | 24500 | - |
| **Spices & Plantation crops** |  |  |  |  |  |  |  |  |  |
| Turmeric | 30-07-2014 | 11-03-2015 | 0.2 | Salem | Rhizome | 11.28 | 37420 | 39500 | - |
| **Floriculture** |  |  |  |  |  |  |  |  |  |
| Mari gold | 15-08-2014 | 28-11-2014 | 0.1 | African Mari gold | Flower | 0.2 | 2200 | 2000 | - |
| **Fruits** |  |  |  |  |  |  |  |  |  |
| Tamarind | 1996-97 | March-2015 | 0.8 | MTI-Series | Fruit | 6.25 | 2300 | 2500 | - |
| **Vegetables** |  |  |  |  |  |  |  |  |  |
| Onion | 06-08-2014 | 20-11-2014 | 0.4 | Arka kalyan | vegetable | 28.66 | 12129 | 14330 | - |
| Dolichos | 19-08-2014 | Oct 14 to Nov2014 | 0.8 | Nandini & Amar | vegetable | 9.27 | 26,403 | 32448 | - |
| French bean | 25-08-2014 | Oct 14 to Nov2014 | 0.8 | Tender green | vegetable | 8.24 | 26,000 | 32960 | - |

**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 | VAM | 25 | 1500 | - | Stock |
| 2 | Pongamia oil cake | 751 | 15020 |  | - |
| 3 | Vegetable special | 203 | 38570 | - | 166 kg Sold, remaining stock |
| 4 | Vermi compost | 2500 | 7500 | - | Stock |

**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 | Goatary | Boyer -1,  Local - 14 | Number | 15 | 75000 | - | Stock |
| 2 | Fisheries | Carp fingerlings | Number | 1932 | 3864 | - | 280 number sold, remaining in stock |
| 3 | Fisheries | Ornamental fishes | Number | 860 | 1720 | - | 30 number sold, remaining in stock |

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

Accommodation available (No. of beds)

|  |  |  |  |
| --- | --- | --- | --- |
| **Months** | **No. of trainees stayed** | **Trainee days (days stayed)** | **Reason for short fall (if any)** |
| **April 2014** | - | - | - |
| **May 2014** | - | - | - |
| **June 2014** | - | - | - |
| **July 2014** | 31 | 6 | - |
| **August 2014** | 6 | 4 | - |
| **September 2014** | 244 | 5 | - |
| **October 2014** | 370 | 7 | - |
| **November 2014** | 606 | 13 | - |
| **December 2014** | - | - | - |
| **January 2015** | - | - | - |
| **February 2015** | 20 | 7 | - |
| **March 2015** | - | - | - |

**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 |  |  |  |  |  |  |  |
| With KVK | SBI, ADB | Gokak | 001814 | Main | 10818205723 | 591002308 | SBIN0001814 |
|  | SBI, ADB | Gokak | 001814 | Revolving | 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 | 7349718 | 7349718 | 7441097 |
| 2 | Traveling allowances | 62000 | 62000 | 61980 |
| 3 | **Contingencies** | | | |
| *A* | Stationery, telephone, postage and other | 40000 | 40000 | 176831.5 |
| *B* | POL, repair of vehicles, tractor and equipments | 40000 | 40000 | 245555 |
| *C* | Meals/refreshment for trainees | 20000 | 20000 | 68474 |
| *D* | Training material | 20000 | 20000 | 24619 |
| *E* | Frontline demonstration except oilseeds and pulses | 193570 | 193570 | 213930 |
| *F* | On farm testing | 50000 | 50000 | 66347 |
| *G* | Training of extension functionaries | 6430 | 6430 | 6430 |
| *H* | Maintenance of buildings | 10000 | 10000 | 31806 |
| *I* | Extension Activities | 17000 | 17000 | 40727 |
| *J* | Farmers Field School | 0 | 0 | 0 |
| *k* | Library | 3000 | 3000 | 3000 |
| **TOTAL (A)** | | **7811718** | **8380796.50** | **8380796.50** |
| **B. Non-Recurring Contingencies** | |  |  |  |
| 1 | **Works** | 0 | 0 | 0 |
| 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)** | | 0 | 0 | 0 |
| **C. REVOLVING FUND** | | 0 | 0 | 0 |
| **GRAND TOTAL (A+B+C)** | | **7811718** | **8380796.50** | **8380796.50** |

**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 | 1816082 | 823404 | 1955011 |
| April 2012 to March 2013 | 1955011 | 584291 | 509027 | 377980 |
| April 2013 to March 2014 | 377980 | 782025 | 364997 | 793116 |
| April 2014 to March 2015 | 793116 | 507295 | 634535 | 665875 |

**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 |
| Salimath N. R. | Programme Assistant (Lab Technician) | State level workshop on mango & Sappota orchard management | NABARD RO Bangalore | 26/6/2014 |
| Chougala D.C. | Subject Matter Specialist | Integrated Pest Management | NBAII, Banaluru | 23/7/2014 |
| Adarsha H S. | Subject Matter Specialist | Empowerment of fish farmers and enterprenership development | FRIC, Hebbal, Bangaluru | 04/8/2014 |
| Malawadi M. N. | Subject Matter Specialist | Practices for conservation agriculture and climate resilient maize system | DMR, New Delhi | 30/8/2014 |
| Sharma S. S. | Programme Assistant | Participatory organic guarantee system | RCOF | 10/9/2014 |
| Malawadi M. N. | Subject Matter Specialist | Participatory impact monitoring and assessment (PIMA) | Krishi Vigyan Kendra, Myrada | 19/11/2014 |
| Salimath N. R. | Programme Assistant (Lab Technician) | State level workshop on mango & Sappota orchard management | NABARD RO Bangalore | 16/1/2015 |
| Malawadi M. N. | Subject Matter Specialist | Technology demonstration for climate resilient value added agromet advisories | ICAR - CRIDA Hydarabad | 28/1/2015 |
| Adarsha H S. | Subject Matter Specialist | Scaling up and commercialization of Biofuel production | NAIS, IISC, Bangaluru | 26/3/2015 |

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

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