

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 | | | | |
| Navile, | 08182- | | | |
| Abbalagere Post, | 295516, | - | shimogakvk@gmail.com | - |
| Shimoga-577 225 | 267017 | | | |
| Karnataka | | | | |

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

| Address | Telephone | | Emoil | Mah Address | |
|--|------------------|------------------|------------------|-------------------------|--|
| Address | Office | Fax | E maii | vveb Address | |
| University of Agricultural Sciences, GKVK Bangalore-65 | 080- 23418883 | 080- 23516836 | deuasb@yahoo.com | www.uasbangalore.edu.in | |

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

| Nama | Telephone / Contact | | | |
|-------------------------|---------------------|--------------------------|--------------------|--|
| Name | Residence | Mobile | Email | |
| Dr. B.C.Hanumanthaswamy | 9448255252 | 9449866938 9480838976 | bchswamy@gmail.com | |

1.4. Year of sanction: 2000

1.5. Staff Position (as on 31st March 2014)

| SI. No. | Sanctioned post | Name of the incumbent | Designation | M /F | Discipline | Highest Qualification (for PC, SMS and Prog. Asstt.) | Pay Scale | Basic pay | Date of joining KVK | Permanent /Temporary | Category (SC/ST/ OBC/Others) |
|------------|---|------------------------------|--------------------------------------|---------|------------------------------------|--|-----------------|--------------|------------------------|-------------------------|------------------------------------|
| 1 | Programme Coordinator | Dr. B.C.Hanumantha swamy | Programme Coordinator | М | Agril. Entomology | M.Sc.,(Agri. Entomology) Ph.D., PGDBA, PGDPP | 15600- 39100 | 24170 | 22.12.2011 | Permanent | General |
| 2 | SMS | Dr. Basavaraj Beerannavar | SMS (Agril. Extn.) | М | Agril. Extension | M.Sc. (Agri.) in Agril. Extension | 15600- 39100 | 21380 | 03.12.2011 | Permanent | SC |
| 3 | SMS | Dr. B.C. Dhananjaya | SMS (SS & AC) | М | Soil Science & Agril. Chemistry | M.Sc.,(Soil Science and Agricultural Chemistry), Ph.D. | 15600- 39100 | 20560 | 19.02.2007 | Permanent | OBC |
| 4 | SMS | Mrs.Jyoti M.Rathod * | SMS (Home Science) | F | Home Science | M.H.Sc. (Food and Nutrition) | 15600- 39100 | 19810 | 12.03.2007 | Permanent | SC |
| 5 | SMS | Dr. M. Ashok | SMS (Animal Science) | М | Animal Science | M.VSc., PGDEM | 15600- 39100 | 19810 | 18.05.2007 | Permanent | OBC |
| 6 | SMS | Dr. Nagarajappa Adivappar | SMS (Horticulture) | М | Horticulture | M.Sc.,(Horticulture) Ph.D., PGDIPR, PGDEM | 15600- 39100 | 18370 | 17.07.2009 | Permanent | General |
| 7 | SMS | Dr. T.M.Soumya | SMS (Agronomy) | F | Agronomy | M.Sc.(Agronomy), Ph.D. | 15600- 39100 | 18370 | 22.10.2013 | Permanent | General |
| 8 | Programme Assistant (Lab Tech.)/T-4 | Mr. R. Nagaraja | Programme Assistant (Lab Tech) | М | Agril. Microbiology | M.Sc.(Agri.) in Agricultural Microbiology, PGDEM | 9300- 34800 | 10560 | 23.10.2010 | Permanent | OBC |
| 9 | Programme Assistant (Computer)/ T-4 | Smt. Geetha B.S. | Programme Assistant (Computer) | F | Computer | M.Com., PGDCA, PGDHR | 9300- 34800 | 10560 | 22.01.2011 | Permanent | General |
| 10 | Programme Assistant/ Farm Manager | Dr. P.R. Somashekharappa | Farm Manager | М | Agronomy | M.Sc.(Agri.) in Agronomy, Ph.D.(Agronomy) | 9300- 34800 | 9300 | 23.12.2013 | Permanent | General |
| 11 | Assistant | Smt. Sujatha, K | Assistant | F | Assistant | B.A. | 16000- 29600 | 17650 | 27.08.2009 | Permanent | OBC |
| 12 | Jr. Stenographer | Smt. Usha, K** | Typist cum computer operator | F | Typist cum computer operator | M.A. | 14550- 24700 | 14350 | 13.08.2007 | Temporary | Others |
| 13 | Driver | Mr. N. Gopala | Driver (LV) | М | Driver (Jeep) | SSLC | 11600- 21000 | 11800 | 16.08.2012 | Permanent | OBC |
| 14 | Driver | Mr. K.H. Mohan | Driver (Tractor) | М | Driver (Tractor) | 7th Std., | 14550- 26700 | 15600 | 20.10.2008 | Permanent | OBC |
| 15 | Supporting staff | Mr. H Manjunatha | Messenger | М | Messenger | SSLC | 9600- 14550 | 12500 | 03.03.2008 | Permanent | SC |
| 16 | Supporting staff | Mr. T. Chikkaiah | Assistant Cook cum Caretaker | М | Cook cum caretaker | SSLC | 10400- 16400 | 11200 | 22.11.2008 | Permanent | OBC |

* On study leave for three years. (From 3-8-2013 to 2-8-2015 to pursue her Ph.D. degree in the subject of Home Science at UAS, Dharwad) ** On consolidated salary

1.6. Total land with KVK (in ha) : 10.00 ha

| SI. No. | ltem | Area (ha) |
|------------|---------------------------|-----------|
| 1 | Under Buildings | 0.86 |
| 2. | Under Demonstration Units | 0.60 |
| 3. | Under Crops | 3.29 |
| 4. | Orchard/Agro-forestry | 5.25 |
| 5. | Others | 10.00 |

1.7. Infrastructural Development:

A) Buildings

| | | | Stage | | | | | |
|------------|------------------------------------|-----------------------|--------------------|--------------------------|----------------------------------|------------------|--------------------------|------------------------|
| e 1 | | Source | | Complete |) | Incomplete | | |
| No. | Name of building | of funding | Completion Date | Plinth area (Sq.m) | Expenditure (Rs. In Iakhs) | Starting Date | Plinth area (Sq.m) | Status of construction |
| 1. | Administrative Building | ICAR | Oct. 2009 | 550 | 55 | - | - | - |
| 2. | Farmers Hostel | ICAR | Sept. 2012 | 305 | 33.33 | | | |
| 3. | Staff Quarters | - | - | - | - | - | - | - |
| 4. | Demonstration Units | | - | - | - | - | - | - |
| | 1. Vermi Compost Unit | NCOF Ghazia bad | 2008 | - | 1.25 | | | |
| | 2. Poultry Unit | RKVY | 2012 | 100 sq.m. | 1.20 | | | |
| 5 | Fencing | - | - | - | - | - | - | - |
| 6 | Rain Water harvesting system | - | - | - | - | - | - | - |
| 7 | Threshing floor | - | - | - | - | - | - | - |
| 8 | Farm godown | - | - | - | - | - | - | - |

B) Vehicles

| Type of vehicle | Year of purchase | Cost (Rs.) | Total kms. Run | Present status |
|------------------------|---------------------|-------------|----------------|----------------|
| Tractor with Trailer | 2001 | 3,71,892.00 | 3892.30 hr | Good condition |
| Jeep (Mahindra Bolero) | 2005 | 4,40,000.00 | 160612 | Good condition |
| Hero Honda Splendor+ | 2009 | 39,350.00 | 30799 | Good condition |
| Honda Activa | 2009 | 46,102.00 | 21239 | Good condition |

C) Equipments & AV aids

| Name of the equipment | Year of purchase | Cost (Rs.) | Present status |
|--|------------------|-------------|----------------|
| Lap top and LCD | 2007 | 1,00,000.00 | Good |
| Photocopier | 2008 | 92,297.00 | Good |
| Mobile Display Board | 2008 | 3,360.00 | Good |
| Hakims mobile Pivot Stand | 2008 | 2,300.00 | Good |
| Hakims Data Press Board | 2008 | 4,400.00 | Good |
| Hakims Combination Board | 2008 | 1,800.00 | Good |
| Hakims 3 type rotation Book Stand | 2008 | 3,100.00 | Good |
| Acrylic name holder | 2008 | 2,800.00 | Good |
| Hakims Security Board (Flap type) | 2008 | 3,100.00 | Good |
| Hakims Display in minutes 4 board – double side stand | 2008 | 8,950.00 | Good |
| Research Microscope | 2008 | 66,555.00 | Good |
| Digital Micro pipette set | 2009 | 21,180.00 | Good |
| Hot Air Oven | 2009 | 24,160.00 | Good |
| Laminar Air Flow | 2009 | 54,013.00 | Good |
| pH Meter | 2009 | 6,600.00 | Good |
| HP Scanner | 2009 | 4,000.00 | Good |
| Autoclave | 2009 | 28,687.00 | Good |
| ELISA Reader | 2009 | 1,47,155.00 | Good |
| Video Camera | 2009 | 1,84,000.00 | Good |
| Information KIOSK (Touch screen) | 2009 | 1,24,519.00 | Good |
| Video Conference Facility Due to satellite failure, the video conference system is not working since last 2½ years | | | conferencing |
| I CD | 2009 | 44 990 00 | Good |
| Motorized Screen | 2009 | 23 000 00 | Good |
| Visual production Unit | 2000 | 5 99 500 00 | Good |
| Desk Top Computers (2 Nos.) | 2009 | 46 000 00 | Good |
| Printers (2 Nos.) | 2009 | 15 645 00 | Good |
| Digital Copier cum network printer | 2009 | 55.125.00 | Good |
| Display board (15 Nos.) | 2009 | 30.000.00 | Good |
| Voltage Stabilizer (2 Nos.) | 2009 | 5.520.00 | Good |
| | 2010 | 26.000.00 | Good |
| Canon Printer-2900B | 2010 | 5.524.00 | Good |
| HP Laser Printer | 2010 | 19.864.00 | Good |
| Sony digital Camera-DSC H-20 SI.No.2348907 | 2010 | 17,500.00 | Good |
| Sony digital Camera-DSC H-20 SI.No.2285039 | 2010 | 9,950.00 | Good |
| Panasonic Fax Machine (SI. No.91CBA004235) | 2010 | 8,736.00 | Good |
| Generator (Genset-EXK-28005) | 2011 | 59,850.00 | Good |
| UPS | 2011 | 38,587.00 | Good |
| Incubator | 2011 | 24,425.00 | Good |
| Desk Top Computers (2 Nos.) HCL | 2011 | 38,600.00 | Good |
| Desk Top Computers (2 Nos.) HCL | 2011 | 38,169.00 | Good |
| 21" Black Onida CTV-21 | 2011 | 8,990.00 | Good |
| Bosch Gas Geyser | 2011 | 7,600.00 | Good |
| Public Address System-Amplifier SSP-1 No. | 00.10 | 00.000.00 | |
| Cardless microphone-2 Nos., Cardless microphone 630 vc-1 No., wall mounting speakers – 2 Nos. | 2013 | 36,600.00 | Good |

| Farm Equipments & Implements | | | | | | |
|---|------------------|--------------------------------|----------------|----------------|--|--|
| Name of the equipment | Date of purchase | Cost of equipments (Rs.) | Source of fund | Present status | | |
| Shakthi Power Tiller and accessories | 31.03.2010 | 1,31,500.00 | ICAR | Good | | |
| 5 HP diesel engine pump and accessories | 03.06.2010 | 18,030.00 | ICAR | Good | | |
| Portable agri sprayer | 03.06.2010 | 9,975.00 | ICAR | Good | | |
| Tractor drawn implements – Trencher, ridger, marker | 26.03.2011 | 86,500.00 | ICAR | Good | | |
| Tractor drawn 2 ferrow MB plough & Tractor drawn disk harrow | 28.03.2011 | 88,000.00 | ICAR | Good | | |
| Power Tiller trailer | 28.03.2011 | 48,048.00 | ICAR | Good | | |
| Tractor drawn water tanker – Chassis mounted 3500 ltr. Capacity, Water tank with resole tyre and heavy axel, Water Tanker | 22.06.2011 | 99,250.00 | ICAR | Good | | |
| Hand operated 'C' type areca leaf plate making machine. | 21.06.2011 | 38,850.00 | ICAR | Good | | |
| Tractor mounted water pully | 02.07.2011 | 32,500.00 | ICAR | Good | | |
| Tractor operated winnover | 30.06.2011 | 20,500.00 | ICAR | Good | | |
| Chaff cutter with 2 HP ISI | 26.08.2011 | 20,500.00 | NHM | Good | | |
| Tractor drawn 5 furrow opener | 26.08.2011 | 31,000.00 | ICAR | Good | | |
| Disk harrow | 22.06.2013 | 1,455.00 | ICAR | Good | | |
| Pruning saw - 'OM' | 12.09.2013 | 18,723.00 | NHM | Good | | |
| Iron plough - 1 wing | 19.12.2012 | 1,600.00 | Revolving fund | Good | | |
| Iron plough - 2 wings | 19.12.2012 | 1,900.00 | Revolving fund | Good | | |

1.8. Details SAC meeting conducted in 2013-14 : NIL

PART II - DETAILS OF DISTRICT

| S. No | Farming system/enterprise |
|-------|--------------------------------|
| 1 | Rice based cropping system |
| 2 | Maize based cropping system |
| 3 | Ragi, Pulses and Oilseeds |
| 4 | Arecanut based cropping system |
| 5 | Coconut based cropping system |
| 6 | Fruit crops and spices |
| 7 | Floriculture |
| 8 | Dairy |
| 10 | Poultry |

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

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

| SI. No | Agro-climatic Zone | Characteristics |
|-----------|---|--|
| 1. | Southern Transition Zone (Zone - 7) | • The total geographical area of Southern Transition Zone (STZ) (Zone–7) is 13.09 lakh ha. Shimoga, Bhadravathi and Shikaripur taluks of Shimoga District comes under this zone. KVK, Navile, Shimoga is located in this zone. |
| | | • The zone 7 has varying altitude ranging from as low as 547 mt. in the North to as high as 1050mt. in the South. |
| | | • The soils of the zone are predominantly sandy soils, shallow to moderate deep, reddish brown to black in colour, slightly acidic in pH and low in organic matter. Soils are generally medium in fertility and respond well to irrigation, manuring and management practices. |
| | | • The climate of the zone is basically tropical benefited by the two monsoons accounting for major part of the rainfall. The zone receives an average annual rainfall of 96.16 mm with minimum of 2.20 mm and maximum of 308.90 mm. The lowest minimum temperature ranges from 14.70 C (January) to 20.30C (May) while the maximum temperature ranges from 24.80C (July) to 33.20 (April). |
| 2. | Hilly Zone (Zone - 9) | • The total geographical area of hilly zone (Zone – 9) is 22.90 lakh ha. Soraba, Sagara, Thirtthahally and Hosanagara taluks of Shimoga District comes under this zone. |
| | | • The zone - 9 has varying altitude ranging from as low as 700 to as high as 1050mt. above mean sea level. |
| | | • The soils of the zone are predominantly sandy loamy or sandy clay loam soils, shallow to moderate deep, yellow, reddish brown to black in colour, low in cation exchange capacity, low in water holding capacity, moderately to highly acidic in pH, low in organic matter and deficient in zinc and boron. Generally, the soils are low in fertility and respond well to irrigation, manuring and management practices. |
| | | • The climate of the zone is basically tropical benefited by the two monsoons accounting for major part of the rainfall. The zone receives and average annual rainfall of 2308mm with a minimum of 922mm and maximum of 3695mm. The lowest minimum temperature of 100 C will be observed during winter. |

| SI. No | Agro ecological situation | Characteristics |
|-----------|--|---|
| 1 | Lateritic gravelly soils with high rainfall based (Thirthahally, part of Hosanagara, Sagara and Soraba taluks) | Comparatively dense forest based, hilly tracks, moderate temperature region, high rainfall. The soils under this AES soils are yellow, reddish brown surface sandy loamy soils or sand clay loam texture. These soils are low in cation exchange capacity with medium water holding capacity and low in fertility status i.e. low in organic matter, and deficiency in zinc and boron. The Western Ghats regions are rich in flora and fauna. Medicinal plants and herbs like, Asana, Amla, Sandal, Anale, Sarpagandhi, Terminalia, Bixa,etc |
| 2 | Red loamy soil with medium rainfall (Parts of Sagara, Soraba, Shikaripura and Hosanagara) | This AES's comprises of medium rainfall area with medium temperature. The soils are medium, shallow to moderate deep with reddish brown to black in colour. Medium in water holding capacity, low in organic matter, only in some patches deficient in Zinc and Boron. |
| 3 | Red and Black mixed soils with medium rainfall (Parts of Shimoga, Bhadravathi, Shikaripura) | The soils under this AES are derived from Ignatius rocks and montmorillonite clay with high in fertility status, high in water holding capacity and cation exchange capacity. These soils are deep and sufficient in micronutrients except some patches. |
| 4 | Irrigated red sandy with medium rainfall (Parts of Shimoga and Bhadravathi) | Comparatively plain lands. Less vegetation, higher temperature. Soils of this situation are predominantly sandy soils, shallow to moderate deep, reddish brown to acidic in pH. Soils are medium in fertility level and respond well for irrigation, manuring and other management practices. |

Soil type/s 2.3

| SI. No | Soil type | Characteristics | Area in ha |
|-----------|------------------------------------|--|--|
| 1 | Red Sandy | Red sandy soils are derived from acidic rock materials, reddish brown to dark reddish brown in colour and gravelly loamy sand to sandy loam in texture. They are neutral to acidic in reaction with low cation exchange capacity, low base saturation and low water holding capacity. The soils are well drained and respond well to irrigation, manuring and other management practices. These soils are found in the eastern parts of Shikaripur and entire Shimoga and Bhadravathi Taluks. | Red gravelly loam – 61546 Red loamy – 22819 Red gravelly clay – 6357 Red gravelly mixed with deep black – 58849 Red clayey – 33904 Red gravelly clay – 14491 Red clayey – 14167 Laterite gravelly clay – 13524 Laterite clayey – 118301 |
| 2 | Mixed Red and Black Soils | The soils are derived from ignetious rocks and montmorillonite clay with high fertility status, high in water holding capacity and cation exchange capacity. The soils are deep and sufficient in micronutrients except in some patches. These soils are found in the eastern parts of Shikaripur and entire Shimoga and Bhadravathi Taluks. | Laterite gravelly clay – 19904 Black clayey – 22358 Alluvial loamy – 61133 Alluvial black clayey – 12087 Alluvial clayey – 25660 Forest brown clayey – 15441 Red gravelly clayey –36446 |
| 3 | Red Ioamy Soils | The soils are medium, shallow to moderate, deep with reddish brown to Black in colour. They are Medium in water holding capacity, low in organic matter, deficient in Zinc and Boron in some patches. These soils are found in the eastern parts of Sagar, Soraba, Shikaripur and Hosanagar Taluks. | |
| 4 | Lateritic gravelly soils | Laterite soils are derived from acidic ignetious rocks, sand stones and sedimentary rocks, yellowish red to reddish brown in colour. They are dominated with kaolinite clay mineral. The soils are acidic with low cation exchange capacity and medium water holding capacity. These soils are found in the western parts of Shikaripur taluk, Thirthahalli and parts of Hosanagar, Sagar and Soraba Taluks. | |

Source: NBSS & LUP Publication - 47 (1998)

2.4. Area, Production and Productivity of major crops cultivated in the district $^{-\,8\,-}$

| SI. No | Сгор | Area (ha) | Production (Metric tons) | Productivity (kg /ha) | | | | | |
|----------|----------------|-----------|-----------------------------|--------------------------|--|--|--|--|--|
| Field Cr | Field Crops | | | | | | | | |
| 1. | Paddy | 106234 | 381639 | 3592 | | | | | |
| 2. | Jowar (hybrid) | 301 | 686 | 2278 | | | | | |
| 3. | Ragi | 936 | 1067 | 1140 | | | | | |
| 4. | Maize | 64278 | 288894 | 4494 | | | | | |
| 5. | Redgram | 692 | 477 | 690 | | | | | |
| 6. | Blackgram | 5 | 2 | 450 | | | | | |
| 7. | Greengram | 41 | 19 | 475 | | | | | |
| 8. | Cowpea | 406 | 203 | 500 | | | | | |
| 9. | Horse gram | 15 | 6 | 400 | | | | | |
| 10. | Avare | 10 | 6 | 550 | | | | | |
| 11. | Groundnut | 248 | 223 | 900 | | | | | |
| 12. | Sesamum | 2 | 1 | 250 | | | | | |
| 13. | Castor | 87 | 83 | 950 | | | | | |
| 14. | Niger | 2 | 0 | 200 | | | | | |
| 15. | Sugarcane | 6102 | 610200 | 100 | | | | | |
| 16. | Tobacco | 6 | 4 | 725 | | | | | |
| 17. | Cotton (Bales) | 693 | 4881 | 390 | | | | | |

Source: Department of Agriculture, Shimoga as per 2012-13

| Horticulture Crops | | | | | | | |
|--------------------|-------------|-----------|-------------------|---------------------|--|--|--|
| SI. No | Crop | Area (ha) | Production (tons) | Productivity (t/ha) | | | |
| 1 | Arecanut | 45171 | 67890 | 1.5 | | | |
| 2 | Coconut | 6950 | 764.5 | 0.11 | | | |
| 3 | Banana | 5720 | 128200 | 22.41 | | | |
| 4 | Mango | 3725 | 34517 | 9.27 | | | |
| 5 | Sapota | 654 | 8517 | 13.02 | | | |
| 6 | Ginger | 6850 | 68500 | 10 | | | |
| 7 | Cashew | 1301 | 1951.5 | 1.5 | | | |
| 8 | Сосоа | 250 | 138 | 0.55 | | | |
| 9 | Cardamom | 417 | 65.3 | 0.16 | | | |
| 10 | Pineapple | 1679 | 100740 | 60 | | | |
| 11 | Pomegranate | 3 | 30 | 10 | | | |
| 12 | Jack | 13 | 520 | 40 | | | |
| 13 | Vanilla | 119 | 35.7 | 0.30 | | | |
| 14 | Guava | 25 | 500 | 20 | | | |

Source: Department of Horticulture, Shimoga as per 2012-13

2.5. Weather data

| | | Tempera | ature ⁰C | Relative Humidity (%) | | |
|------------|---------------|---------|----------|-----------------------|------------------|--|
| Month | Rainfall (mm) | Maximum | Minimum | At 0830 hours | At 1730 hours | |
| April-2013 | 30.2 | 38.53 | 22.30 | 92.07 | 40.77 | |
| May-2013 | 149.2 | 36.57 | 21.79 | 91.74 | 46.48 | |
| June-2013 | 107.4 | 30.52 | 20.76 | 91.90 | 73.53 | |
| July-2013 | 333.2 | 29.05 | 19.45 | 91.77 | 80.32 | |
| Aug-2013 | 172 | 29.19 | 20.01 | 91.52 | 72.03 | |
| Sept-2013 | 133.4 | 31.13 | 21.43 | 92.00 | 67.47 | |
| Oct-2013 | 127.8 | 31.82 | 20.22 | 91.94 | 63.10 | |
| Nov-2013 | 0 | 33.14 | 19.55 | 91.83 | 59.63 | |
| Dec-2013 | 0 | 34.77 | 17.94 | 91.52 | 46.48 | |
| Jan-2014 | 0 | 33.59 | 16.93 | 85.39 | 47.03 | |
| Feb-2014 | 0 | 33.86 | 17.54 | 85.14 | 55.39 | |
| March-2014 | 29 | 35.45 | 20.05 | 85.39 | 54.16 | |
| TOTAL | 1082.2 | - | - | - | - | |

Source: Agromet advisory services ZAHRS, Shimoga

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

| Category | Population | Production | Productivity | |
|----------------------------|--------------------|--------------------|--------------|--|
| Cattle | | | | |
| Crossbred | 882 (in '00 Nos.) | 83 | 4.617 | |
| Indigenous | 2560 (in '00 Nos.) | 79 | 1.301 | |
| Buffalo 1583 (in '00 Nos.) | | 54 | 1.508 | |
| Sheep | 63396 | 1078 (in Tonnes) | 17 | |
| Goats | 25357 | 406 (in tones) | 16 | |
| Pigs | 3182 | 150 (in tones) | 47 | |
| Poultry | | | | |
| Hens | 4554 | 864 (in lakhs) | 229.5 | |
| Desi | 1020664 | 1520 (in tennes) | 1 40 | |
| Improved | 1039004 | 1559 (III torines) | 1.40 | |
| Ducks | | | | |

Source : Department of Animal husbandry, Shimoga as per 2012-13

2.7 District profile has been Updated for 2013-14 Yes / No: YES

| SI. No. | Taluk Name of the block | Name of the village | How long the village is covered under operational area of the KVK (specify the years) | Major crops & enterprises | Major problems identified | Identified thrust areas |
|------------|----------------------------|--|---|--|---|--|
| 1. | Shimoga | Kumsi Aynuru Haranahalli Bedarahosahalli Sominakoppa Haramghatta Aladahalli Chikkamarasa Kalakoppa Pillangere Halalakkavalli | 5 5 4 7 7 7 3 5 2 3 2 3 2 | Paddy Maize Banana Ginger Vegetables Arecanut Dairy Poultry | Leaching losses N & K nutrients Scarcity of labour for transplanting Blast, sheath blight, stem borer in paddy Improper utilization of maize straw Shoot borer problem in ginger Inflorescence dieback and Snail menace in arecanut Imbalanced Nutrition in dairy cows Infertility in dairy animals Unaware of improved poultry breeds for backyard poultry | INM IPDM Farm mechanization Resource utilization Value addition Nutrient and disease management in dairy cows Vaccination and deworming in back yard poultry Deworming and concentrate feeding in growing sheep IFS model for dry lands Fodder production |

2.8 Details of Operational area / Villages

| 2. | Bhadravathi | Holehonnur Anveri Ittigehalli | 7 5 3 | Paddy Azolla Groundnut Arecanut Flower crops Backyard poultry and commercial poultry | Leaching losses N & K nutrients Blast and sheath blight disease Inefficient space utilization in Arecanut Inflorescence die back and caterpillar in Arecanut Lack of awareness on new varieties of flower crops Soil acidity | Varietal introduction Integrated Nutrient Management IPDM Garden management Soil reclamation Value addition Mushroom cultivation |
|----|-------------|--|--|--|---|---|
| 3. | Shikaripura | Hosur Shiralkoppa Anjanapura Hittala Madagaharanahalli Esuru Nimbegondi Suragihalli Madagaharnahalli | 6 6 7 3 3 3 3 3 3 3 | Maize Groundnut Sunflower Cotton Azolla Banana | Non-availability of improved hybrids Improper nutrient management Tikka disease Bollworm incidence Sigatoka leaf spot in Banana Non-availability of green fodder source for livestock Lack of awareness on new variety of poultry birds | Varietal and hybrid introduction Introduction of Bt. Cotton INM IPDM Nutrient management in dairy cows Value addition Fodder production |
| 4. | Hosanagara | Ripponpet Nagara Benavalli | 7 4 6 | Coconut Ginger | Leaching losses of N & K nutrient Bud rot in Coconut Lack of awareness on new ginger varieties | INM IPDM Varietal introduction Value addition |

| 5. | Sagara | Varadamula Byakodu Thalaguppa Ulluru Mavali Kouthi | 8 5 6 5 6 3 | Paddy Arecanut Coconut Banana Pepper Jack Vegetables | Non-availability of submergence tolerant paddy varieties Improper nutrient management Root grub in Arecanut Bud rot in Arecanut No value addition | Varietal introduction INM IPDM Value addition in Banana and Jack |
|----|--------------|---|----------------------------|--|---|---|
| 6. | Soraba | Jade Hirekasavi Ulavi Mallapura Thumarikoppa | 7 7 6 3 3 | Ginger Pulses Pineapple | Lack of awareness on new ginger varieties Non-availability of short duration pulse varieties Heart rot in pineapple Lack of pulse storage knowledge | Varietal introduction Value addition IPDM Improved storage techniques |
| 7. | Thirthahalli | Devangi Konandur | 8 6 | Paddy Arecanut Jack fruit Pepper | Non-availability of submergence tolerant paddy varieties Root grub in arecanut No value addition Improper drying techniques | Varietal introduction IPDM Value addition in Jack fruit Value addition in pepper |

2.9 Priority thrust areas

| SI. No. | Thrust Area |
|------------|--|
| 1. | Soil reclamation |
| 2. | INM |
| 3. | IPDM |
| 4. | Variety / hybrid introduction |
| 5. | Farm mechanization |
| 6. | Quality seed / seedling production |
| 7. | Nutrient and disease management in cattle |
| 8. | Fodder production and enrichment of dry fodder crops |
| 9. | Infertility management in dairy animals |
| 10. | Back yard poultry |
| 11. | Value addition |
| 12. | Post harvest technology |

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 |
| 3 | 3 | 26 | 26 | 22 | 22 | 130 | 123 |

| Training | | | | Extension Programmes | | | |
|----------------------|-------------|---------------------------|-------------|-------------------------|-------------|---------------------------|-------------|
| 3 | | | | | 4 | 4 | |
| Number of Courses | | Number of Participants | | Number of Programmes | | Number of participants | |
| Targets | Achievement | Targets | Achievement | Targets | Achievement | Targets | Achievement |
| 65 | 79 | 2500 | 3337 | 190 | 210 | 5000 | 5850 |

| Seed Proc | luction (Qtl.) | Planting materials (Nos.) | | |
|-----------|----------------|---------------------------|-------------|--|
| | 5 | 6 | | |
| Target | Achievement | Target | Achievement | |
| 20.0 | 23.68 | 50,000/- | 57,988/- | |

| Livestock, poultry s | strains and fingerlings No.) | Bio-pr | oducts (Kg) | | | | |
|----------------------|---------------------------------|--------|-------------|--|--|--|--|
| | 7 | 8 | | | | | |
| Target | Achievement | Target | Achievement | | | | |
| | | | | | | | |

| | | | | Interventions | | | | | | | | | | |
|----------|-----------------------|---------------------|-------------------------------|-----------------------------|--|---------------------------------------|--------------------------------------|---|----------------------------------|------------------------|--|-------------------------------------|-----------------------|------------|
| S. No | Thrust area | Crop/ Enterprise | ldentified Problem | 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 livestoc k (No.) | Supply of bio p | products |
| 1 | INM | Maize | Leaching loss | Assessmen | - | 2 | - | - | Field | | | | DAP | 49kg |
| | | | of nitrogen at different crop | t of nitrogen scheduling | | | | | visits – 7, Field | | | | Urea | 38 kg |
| | | | growth stages | in maize | | | | | day – 1 | | | | MOP | 18.5kg |
| | | | | | | | | | | | | | ZnSO ₄ | 2.08kg |
| 2. | IPM | Paddy | Weeds, stem | - | IPM in paddy | 3 | 1 | - | Field | - | - | - | Eraze strong | 48 kg |
| | | | borer, blast and sheath | | | | | | visits-4 | | | | Carbofuran | 60 kg. |
| | | | blight | | | | | | day-1 | | | | Copper oxychloride | 6 kg |
| | | | | | | | | | | | | | Streptocycline | 420 g. |
| | | | | | | | | | | | | | Hexaconozole | 12 ltr. |
| | | | | | | | | | | | | | Chloropyriphos | 12 ltr. |
| | | | | | | | | | | | | | Carbendazim | 12 kg. |
| 3. | Disease management | Paddy | Sheath blight | - | Managemen t of sheath blight in paddy | 2 | 1 | - | Field visits–3 | - | - | - | Tebuconozole | 1 kg. |
| 4 | Crop management | Groundnut | Soil acidity, secondary | - | Integrated crop | 1 | - | - | Field visits–8 | Groundnut pods- | | | Trichoderma | 10 kg |
| | | | and micronutrient | | managemen t in ground | | | | Field day–1 | 400kg | | | PSB | 0.75 kg |
| | | | deficiencies, low shelling | | nut in acid soils | | | | | | | | Agricultural lime | 500kg |
| | | | and incidence | | | | | | | | | | ZnSO ₄ | 25kg |
| | | | and collar rot disease | | | | | | | | | | Borax | 2kg |

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

| | | | | Interventions | | | | | | | | | | |
|----------|------------------------|---------------------|--|---|---|---------------------------------------|--------------------------------------|---|-------------------------------------|------------------------|--|-------------------------------------|-----------------|-------------|
| S. No | Thrust area | Crop/ Enterprise | ldentified Problem | 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 livestoc k (No.) | Supply of bio p | products |
| 5 | Crop | Sunflower | Sulphur deficiency due | - | ICM in | 1 | - | - | Field | | | | SSP | 1200 k g |
| | management | | to soil acidity, | | Sumower | | | | 1313-0 | | | | Neem oil | 10lit |
| | | | powdery mildew, bud | | | | | | | | | | ZnSO4 | 50kg |
| | | | necrosis and collar rot | | | | | | | | | | Borax | 8.5kg |
| 6 | Varietal | Green gram | Non-utilization | - | Short | 3 | - | - | Field | Green | | | Pseudomonas | 3 kg |
| | ovaluation | | moisture in rice fallows | | green gram variety KKM- | | | | Field | seeds : 0.4 | | | Trichoderma | 3 kg |
| | | | | | 3 in rice fallows | | | | uay-1 | | | | Urea | 150 kg |
| | | | | | | | | | | | | | SSP | 600kg |
| | | | | | | | | | | | | | МОР | 100kg |
| | | | | | | | | | | | | | ZnSO4 | 50kg |
| 7 | Varietal evaluation | Turmeric | Low yielding varieties | Assessment of high yielding varieties of turmeric | - | 2 | - | 1 | Field visits–6 Field day–1 | | Rhizomes 5 qtl. | - | - | - |
| 8 | Varietal evaluation | Tomato | Disease susceptible hybrids and low yield | - | High yielding and triple disease tolerant F1 hybrid tomato <i>Arka</i> <i>Rakshak</i> | 1 | - | - | Field visits–6 | Seeds – 200 gm. | | | | |

| | | | | Interventions | | | | | | | | | | |
|----------|------------------------|---------------------|--|---------------------|--|---------------------------------------|--------------------------------------|---|---------------------------------------|------------------------|--|-------------------------------------|----------------------|-------------|
| S. No | Thrust area | Crop/ Enterprise | ldentified Problem | 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 livestoc k (No.) | Supply of bio p | roducts |
| 9 | Varietal evaluation | French bean | Low yielding and Photoperiod sensitive variety | - | Photoperiod insensitive, stringless, round and high yielding French bean variety Arka Sharath | 1 | - | | Field visits–8 Field day – 1 | Seeds – 86 kg. | | | | |
| 10 | Varietal evaluation | Gaillardia | Low yield | - | High yielding garland purpose flower crop Gaillardia | 2 | - | - | Field visits–5 | Seeds 1.66 kg | | | | |
| 11 | Crop management | Ragi | Non availability of improved high yielding varieties | - | ICM in Ragi | 1 | - | - | Field visits– 4 Field day–1 | Ragi seeds- 40kg | | | ZnSO4 Borax - 2kg | 40kg 2kg |
| 12 | Pest management | Ginger | Shoot borer | - | Managemen t of shoot borer in ginger | 3 | - | - | Field visits -3 | | | | Lamda Cyhalothrin | 28 ltr. |
| 13 | Pest management | Arecanut | Root grub | - | Managemen t of root grub in arecanut | 2 | - | - | Field visits-2 | - | - | - | Neem cake | 600 kg. |
| | | | | | | | | | | | | | Imidachloprid | 18 ltr. |
| 14 | Pest management | Arecanut | Snail menace | - | Managemen t of snails in arecanut | 2 | - | - | Field visits-2 | - | - | - | Methomyl | 12 kg |
| 15 | Pet management | Arecanut | Inflorescence die back and caterpillar | - | Managemen t of Inflorescenc | 2 | - | - | Field visits-2 | - | - | - | Saaf | 20 kg |
| | | | | | e die back and caterpillar | | | | | | | | Chloropyriphos | 20 ltr. |

| | | | | Interventions | | | | | | | | | | |
|----------|------------------------------|---------------------|--|-----------------------------|--|---------------------------------------|--------------------------------------|---|----------------------------------|------------------------|--|-------------------------------------|--------------------------|-----------------|
| S. No | Thrust area | Crop/ Enterprise | ldentified Problem | 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 livestoc k (No.) | Supply of bio p | products |
| 16 | Infertility management | Dairy | Lower fertility and calving | Assessmen t of effective | - | 3 | - | - | | | | | Mineral mixture | 135kg |
| | | | rates due to repeat | treatment technique | | | | | | | | | Fenbendazole | 50 bolus |
| | | | problem in cross bred | for repeat breeding in | | | | | | | | | Vitamin A | 12 vials |
| | | | cows | cows | | | | | | | | | Chorulon | 12 vials |
| 17 | Increasing fodder | Dairy | Lack of awareness on | - | Introduction of fodder | | | | | | | | Fenbendozole | 14 |
| | production | | high yielding fodder varieties | | production units at farmer's field | 2 | - | - | | | | | Feed supplement | bolus 180 kg |
| 18 | Increasing the milk fat | Dairy | Lower fat percentage in | - | Feeding by pass fat to | | | | | | | | SAT Maize seeds | 10kg |
| | percentage | | milk due to imbalanced nutrition | | cross bred cows during early | | | | | | | | COFS Sorghum seeds | 5 kg |
| | | | | | lactation | 1 | - | - | - | | | | Cowpea seeds | 10kg |
| | | | | | | | | | | | | | CO4 root slips | 10000 Nos. |
| | | | | | | | | | | | | | Lucerne seeds | 6 kg. |
| 19. | Increasing the poultry | Poultry | Lack of awareness on | - | Introduction of | | | | | | | Day old | Poultry feed | 400kg |
| | production in rural areas | | improved breeds of | | Swarnadhara bird in | | | | | | | chiks- 510 | Lasota vaccine | 1000 doses |
| | | | back yard poultry | | backyard poultry | 4 | - | - | - | | | | IBD vaccine | 500 doses |
| | | | | | | | | | | | | | Vitamins | 120ml |
| | | | | | | | | | | | | | Antibiotic | 1000 ml |

3.B2. Details of technology used during reporting period

| S. | Title of Technology | Source of technology | Cron/ontorprico | No. of programmes conducted | | | |
|-----|---|---|-----------------|-----------------------------|----------|----------|--|
| No | | Source of technology | Crop/enterprise | OFT | FLD | Training | Others (Specify) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1. | Assessment on nitrogen scheduling in Maize | UAS, Bangalore and Directorate of Maize research, New Delhi | Maize | 3 | - | 1 | Field day – 1, Field visits-7 |
| 2. | IPM in paddy | UAS, Bangalore | Paddy | - | 1 | 3 | Field visits-4 Field day–1, |
| 3. | Management of sheath blight in paddy | UAS, Bangalore | Paddy | - | 1 | 3 | Field visits – 3 |
| 4. | Integrated crop management in ground nut in acid soils | UAS, Bangalore | Groundnut | - | 5 | 1 | Field day – 1 Field visits – 8 |
| 5. | ICM in sunflower | UAS, Bangalore | Sunflower | - | 12 | 1 | Field visits – 2 |
| 6. | Short duration green gram variety KKM-3 in rice fallows | UAS, Bangalore | Green gram | - | 7 | 3 | Field day – 1 Field visits 4 |
| 7. | ICM in Ragi | UAS, Bangalore | Ragi | - | 8 | 1 | Field day – 1 |
| 8. | Assessment of high yielding varieties of turmeric | UAS, Dharwad, UAS, Bangalore, OUAT Bhubaneshwar, IISR Calicut | Turmeric | 1 | - | 2 | Field day – 1, Field visits – 8 |
| 9. | High yielding and triple disease tolerant F1 hybrid tomato <i>Arka Rakshak</i> | IIHR, Bangalore | Tomato | - | 1 | 1 | Field visits – 6 |
| 10. | Photoperiod insensitive, stringless, round and high yielding French bean variety <i>Arka</i> <i>Sharath</i> | IIHR, Bangalore | French bean | - | 1 | 1 | Field visits – 8 Field day – 1 |
| 11. | High yielding garland purpose flower crop Gaillardia – Arabavi Local | UAHS, Bagalkot | Gaillardia | - | 1 | 2 | Field visits – 5 |
| 12. | Management of shoot borer in ginger | UAS, Bangalore | Ginger | - | 1 | 3 | Field visits -3 |
| 13. | Management of root grub in arecanut | UAS, Bangalore | Arecanut | - | 1 | 2 | Field visits -2 |
| 14. | Management of snails in arecanut | UAS, Bangalore | Arecanut | - | 1 | 2 | Field visits -2 |
| 15. | Management of Inflorescence die back and caterpillar | UAS, Bangalore | Arecanut | - | 1 | 2 | Field visits -2 |
| 16. | Assessment of effective treatment technique for repeat breeding in CB cows | KVAFSU, Bidar and TNAVAS, Chennai | Dairy | 20 units | - | 2 | Field visits – 22 Interaction – 11 |
| 17. | Introduction of fodder production units at farmer's field | KVAFSU, Bidar | Dairy | - | 5 | 2 | Interaction programmes-10, Field visits-13 |
| 18. | Feeding by pass fat to lactating cross bred cows during early lactation | NDDB, Bangalore | Dairy | - | 13 units | 2 | Interaction programmes -12, Field visits-14 |
| 19. | Introduction of Swarnadhara bird in backyard poultry | KVAFSU, Bidar | Poultry | - | 5 | 4 | Interaction programmes-8, Field visits-10 |

3.B2 contd..

| | No. of farmers covered | | | | | | | | | | | | | | | |
|-----|------------------------|--------|-----|-----|-----|------|----|-----|-----|------|------|-----|-----|----------|----------|-----|
| SI. | | | OFT | | | FL | D | | | Trai | ning | | | Others (| Specify) | |
| No. | G | eneral | SC | /ST | Gen | eral | SC | /ST | Gen | eral | SC | /ST | Gen | eral | SC | /ST |
| | Μ | F | М | F | М | F | М | F | M | F | М | F | М | F | М | F |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1. | 3 | - | - | - | - | - | - | - | 39 | 3 | 10 | - | 18 | - | 8 | - |
| 2. | - | - | - | - | 8 | - | 4 | - | 70 | 22 | 20 | 8 | 92 | 31 | 20 | 6 |
| 3. | - | - | - | - | 3 | 4 | 1 | 2 | 54 | 14 | 6 | 3 | 41 | 12 | 8 | 2 |
| 4. | - | - | - | - | - | - | 4 | 1 | 36 | 4 | 39 | - | 2 | - | 10 | - |
| 5. | - | - | - | - | 4 | - | 8 | - | 23 | 2 | 20 | - | - | - | - | - |
| 6. | - | - | - | - | 3 | - | 3 | 1 | 83 | 17 | 8 | 3 | 10 | 1 | 12 | - |
| 7. | - | - | - | - | 6 | - | 2 | - | 16 | 2 | 8 | 1 | 8 | - | 4 | - |
| 8. | 2 | - | - | - | - | - | - | - | 26 | 36 | 12 | 26 | 48 | - | 28 | - |
| 9. | - | - | - | - | 3 | - | 1 | - | 28 | - | 11 | - | 5 | - | 8 | - |
| 10. | - | - | - | - | 3 | - | 1 | - | 28 | - | 11 | - | 90 | - | 32 | - |
| 11. | - | - | - | - | - | - | 4 | - | 32 | 6 | 27 | 0 | 10 | 2 | 8 | 2 |
| 12. | - | - | - | - | 10 | - | 4 | - | 66 | 18 | 12 | 6 | 52 | 6 | 6 | 2 |
| 13. | - | - | - | - | 4 | - | 2 | - | 52 | 11 | 8 | 4 | 16 | - | 8 | - |
| 14. | - | - | - | - | 6 | - | 4 | - | 58 | 8 | 6 | 2 | 38 | - | 14 | - |
| 15. | - | - | - | - | 8 | - | 4 | - | 56 | 9 | 7 | 3 | 32 | - | 11 | - |
| 16. | 17 | 1 | 1 | 1 | - | - | - | - | 31 | 14 | 17 | 7 | 24 | 2 | 4 | - |
| 17. | - | - | - | - | 5 | - | - | - | 85 | 9 | 71 | 41 | 31 | 4 | 2 | 1 |
| 18. | - | - | - | - | 6 | 1 | - | - | 31 | 12 | 17 | 8 | 28 | 6 | 1 | 1 |
| 19. | - | - | - | - | 5 | - | - | - | 66 | 7 | 17 | 7 | 26 | 4 | 2 | 1 |

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 | 1 | | | | | | | | | 1 |
| Management | | | | | | | | | | |
| Varietal | | | | 1 | | | | | | 1 |
| Evaluation | | | | | | | | | | I |
| Integrated Pest | | | | | | | | | | |
| Management | | | | | | | | | | |
| Integrated Crop | | | | | | | | | | |
| Management | | | | | | | | | | |
| Integrated | | | | | | | | | | |
| Disease | | | | | | | | | | |
| Management | | | | | | | | | | |
| Small Scale | | | | | | | | | | |
| Income | | | | | | | | | | |
| Generation | | | | | | | | | | |
| Enterprises | | | | | | | | | | |
| Weed | | | | | | | | | | |
| Management | | | | | | | | | | |
| Resource | | | | | | | | | | |
| Conservation | | | | | | | | | | |
| Technology | | | | | | | | | | |
| Farm | | | | | | | | | | |
| Machineries | | | | | | | | | | |
| Integrated | | | | | | | | | | |
| Farming System | | | | | | | | | | |
| Seed / Plant | | | | | | | | | | |
| production | | | | | | | | | | |
| Value addition | | | | | | | | | | |
| Drudgery | | | | | | | | | | |
| Reduction | | | | | | | | | | |
| Storage | | | | | | | | | | |
| Technique | | | | | | | | | | |
| Mushroom | | | | | | | | | | |
| cultivation | | | | | | | | | | |
| TOTAL | 1 | | | 1 | | | | | | 2 |

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

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

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

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

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

4.B. Achievements on technologies Assessed and Refined

4.B.1. Technologies Assessed under various Crops

| Thematic areas | Сгор | Name of the technology assessed | No. of trials | Number of farmers | Area in ha (Per trail covering all the Technological Options) |
|--------------------------------------|----------|--|---------------|----------------------|--|
| Integrated Nutrient Management | Maize | Assessment on nitrogen scheduling in Maize | 3 | 3 | 0.19 |
| Varietal Evaluation | Turmeric | Assessment of high yielding turmeric varieties | 2 | 2 | 0.40 |
| Integrated Pest Management | | | | | |
| Integrated Crop Management | | | | | |
| Management | | | | | |
| Small Scale | | | | | |
| Income Generation Enterprises | | | | | |
| Weed | | | | | |
| Management | | | | | |
| Conservation | | | | | |
| Farm Machineries | | | | | |
| | | | | | |
| Integrated | | | | | |
| Seed / Plant | | | | | |
| production | | | | | |
| Value addition | | | | | |
| | | | | | |
| Drudgery | | | | | |
| Reduction | | | | | |
| Storage | | | | | |
| Technique | | | | | |
| Mushroom | | | | | |
| | | | | | |
| Total | | | | | |

4.B.2. Technologies Refined under various Crops : NIL

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

| Thematic areas | Name of the livestock enterprise | Name of the technology assessed | No. of trials | No. of farmers |
|---|---|--|------------------|-------------------|
| Evaluation of breeds | | | | |
| Nutrition management | | | | |
| Disease management | Dairy | Assessment of effective treatment technique for repeat breeding in Cross bred cows | 20 units | 20 |
| Value addition | | | | |
| Production and management | | | | |
| Feed and fodder | | | | |
| Small scale income generating enterprises | | | | |
| | | Total | 20 units | 20 |

4.B.4. Technologies Refined under Livestock and other enterprises : NIL

4.C1. Results of Technologies Assessed

| Crop | Farming situation | Problem definition | Title of OFT | No. of trials | Technology | Parameters of assessment | Data on the parameter | | ata on the parameter Results of assessment | | | |
|-------|----------------------|--------------------|--------------|------------------|--------------|---|-----------------------|------------|--|--------------------|--------------------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | | 8 | | 9 | 10 | |
| | | | | - | - | | Tech.opt.1 | Tech.opt.2 | Tech.opt.3 | - | | |
| Maize | Rainfed | Leaching | Assessme | 3 | Nitrogen | Nitrogen | Cob length (cm) | 16.85 | 17.03 | 17.05 | N application at 4 | Split |
| | | losses of | nt of | | application | Cob weight (g) | 91.58 | 110.40 | 128.98 | different splits | application | |
| | | under | scheduling | | at different | Initial Soil Status | | | | higher grain vield | vield and | |
| | | high | in maize | | crop growth | рН | 6.40 | | | over | increased | |
| | | rainfall | | | stages | EC (ds/m) | 0.020 | | | recommended | fertilizer use | |
| | | | | | | Available N (kg/ha) | 235.20 | | | 25% higher grain | | |
| | | | | | | Available P ₂ O ₅ (kg/ha) | 87.09 | | | yield over | | |
| | | | | | | Available K ₂ O (kg/ha) | 179.20 | | | farmers practice | | |
| | | | | | | Final Soil Status | | | | | | |
| | | | | | | рН | 6.74 | 7.14 | 7.13 | | | |
| | | | | | | EC (ds/m) | 0.020 | 0.023 | 0.020 | | | |
| | | | | | | Available N (kg/ha) | 222.33 | 204.67 | 161.67 | | | |
| | | | | | | Available P ₂ O ₅ (kg/ha) | | 98.37 | | | | |
| | | | | | | Available K ₂ O (kg/ha) | | 188.00 | | | | |

| Contd | | | | | | | |
|-----------------------------|------------------------------------|---|--|------------|---------------------------------------|--|-------------|
| Any refinement needed | Justification for refinement | Technology Assessed | Source of Technology | Production | Please give the unit (kg/ha) | Net Return (Profit) in Rs. / unit | BC Ratio |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| | | Technology. Option 1: 20% recommended N as basal dose & 60 % recommended N at 3-4 weeks after sowing besides 20% N at grain filling stage. | Farmer practice | 4154 | kg/ha | 22171 | 1.91 |
| - | _ | Technology. Option 2: Recommended NPK @ 100:50:25 Kg/ha. N and K in 2 splits. Basal 50 % N, 100% P and 50 % K and top dressing of 50 % N and 50 % K at 30 DAS. | UAS, Bangalore | 4794 | kg/ha | 32131 | 2.40 |
| | | Technology. Option 3: Recommended NPK @ 100:50:25 Kg/ha. N application in 4 splits. (a) 20 % N at sowing (Basal), (b) 25 % N at 4 leaf stage (1 st top dress) (c) 30 % N at 8 leaf stage (2 nd top dress) (d) 25 % N at tasselling (3 rd top dress) | UAS, Bangalore + DMR, New Delhi | 5181 | kg/ha | 36082 | 2.54 |

- 1) **Title of Technology Assessed :** Assessment on nitrogen scheduling in maize
- 2) **Problem Definition:** Nitrogen deficiency at grain filling stage

| SI. No. | Technological Options | Details of Technology |
|------------|---------------------------|--|
| 1. | Farmer's Practice | 20% recommended N as basal dose & 60 % recommended N at 3-4 weeks after sowing besides 20% N at grain filling stage. |
| 2. | Technological Option 2 | RDF NPK @ 100:50:25 Kg/ha on soil test basis. + 10 kg. ZnSO ₄ /ha. 100% P and 50 % K as basal and 50 % K at 30 DAS. N application in 2 splits : 50% recommended N at sowing (basal) + 50% recommended N at 3-4 weeks after sowing (Top dress). |
| 3. | Technological Option 3 | Technological Option 2 + N application in 4 splits. (a) 20 % N at sowing (Basal), (b) 25 % N at 4 leaf stage (1 st top dress) (c) 30 % N at 8 leaf stage (2 nd top dress) (d) 25 % N at tasselling (3 rd top dress) |

3) Details of technologies selected for assessment

- 4) Source of technology: UAS, Bangalore and Directorate of Maize research, New Delhi
- 5) Production system and thematic area : Rainfed and nutrient management
- 6) Performance of the Technology with performance indicators: Length of the cob and cob weight were higher in alternate practice as a result of which, grain yield / ha increased by 10.3 q/ha compared to farmers practice and 3.90 q/ha compared to recommended practice.
- 7) Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : -----
- 8) Final recommendation for micro level situation: Nitrogenous fertilizer application in 4 different splits fulfills the crop nitrogen requirement at different crop growth stages.
- **9) Constraints identified and feedback for research:** Difficulty in applying the last split of nitrogenous fertilizers at grain filling stage.
- **10) Process of farmers' participation and their reaction:** Farmers actively participated in the on farm testing.

| Crop/ enterprise | Farming situation | Problem definition | Title of OFT | No. of trials | Technology Assessed | Parameters of assessment | Data o | n the para | ameter | Results of assessment | Feedback from the farmer | Any refinement needed | Justification for refinement |
|---------------------|--|-----------------------|--------------|-----------------------------------|-------------------------------------|--------------------------------|----------------------------------|--------------------------------|--------------------------------------|---|--------------------------------|-----------------------------|------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | 9 | 10 | 11 | 12 |
| Turmeric | iurmeric Irrigated Low Assessmen yielding of high varieties yielding turmeric | Assessment of high | 2 | Assessment of high yielding | 1) No. of secondary rhizomes. | Variety | No. of secondary rhizomes. | No. of tertiary rhizomes | Higher no. of secondary and tertiary | Varieties PTS-24 and | - | - | |
| | | turmeric | | turmeric varieties : | 2) No. of tertiary | Belgaum Local | 3.73 | 6.83 | rhizomes were | Prathibha were | | | |
| | | | varieties | | Kadapa, | rhizomes | CLI-32 | 4.86 | 7.86 | observed in fo PTS-24 and b Rajapuri. p Higher fresh weight and | found to | | |
| | | | | | Salem, | | Bidar-4 | 3.75 | 10.66 | | be | | |
| | | | | | Alleppy, | 3) | Salem | 4.46 | 8.26 | | promising. | | |
| | | | | | PTS-24 | Rhizomes | Rajapuri | 5.73 | 10.80 | | | | |
| | | | | | Belgaum | Tresn | Prathibha | 4.86 | 8.46 | B:C | | | |
| | | | | | Local, | weigilt | PTS-24 | 5.60 | 10.40 | recorded in | | | |
| | | | | | Bidar-4, | | Alleppy | 4.00 | 8.20 | PTS-24 and | | | |
| | | | | | Prathibha, CLI-32 | | Kadapa | 5.33 | 6.73 | Prathibha | | | |

2. Results of On Farm Trial : Assessment of high yielding turmeric varieties

Contd..

| Technology Assessed | Source of Technology | Production Rhizome fresh weight / ha (t/ha) | Unit | Net Return (Profit) in Rs. / unit | BC Ratio |
|------------------------------------|----------------------|---|------|--------------------------------------|----------|
| 13 | 14 | 15 | 16 | 17 | 18 |
| Technology option 1: Belgaum Local | Farmers practice | 20.57 | t/ha | 133175.00 | 1.76 |
| Technology option 2: CLI-32 | Farmers practice | 32.00 | t/ha | 301175.00 | 2.68 |
| Technology option 3: Bidar-4 | Farmers Practice | 24.00 | t/ha | 183562.00 | 2.04 |
| Technology option 4: Salem | UAS, Dharwad | 34.13 | t/ha | 332225.00 | 2.84 |
| Technology option 5: Rajapuri | UAS, Dharwad | 39.46 | t/ha | 410500.00 | 3.26 |
| Technology option 6: Prathibha | IISR, Calicut | 42.66 | t/ha | 450900.00 | 3.38 |
| Technology option 7: PTS-24 | OUAT, Orissa | 43.42 | t/ha | 469300.00 | 3.57 |
| Technology option 8: Alleppy | UAS, Bangalore | 35.42 | t/ha | 354105.00 | 2.99 |
| Technology option 9: Kadapa | UAS, Dharwad | 25.16 | t/ha | 201960.00 | 2.15 |

- 1. Title of Technology Assessed : Assessment of high yielding turmeric varieties
- 2. Problem Definition: Low yielding varieties

| SI. No. | Technological Options | Details of Technology |
|------------|-----------------------|-----------------------|
| 1. | Technology option 1 | Belgaum Local |
| 2. | Technology option 2 | CLI-32 |
| 3. | Technology option 3 | Bidar-4 |
| 4. | Technology option 4 | Salem |
| 5. | Technology option 5 | Rajapuri |
| 6. | Technology option 6 | Prathibha |
| 7. | Technology option 7 | PTS-24 |
| 8. | Technology option 8 | Alleppy |
| 9. | Technology option 9 | Kadapa |

3. Details of technologies selected for assessment

- **4. Source of technology :** UAS, Dharwad, UAS, Bangalore, OUAT, Orissa, IISR, Calicut
- 5. Production system and thematic area : Irrigated, Varietal evaluation
- 6. Performance of the Technology with performance indicators: Higher no. of secondary and tertiary rhizomes were noticed in PTS-24 and Rajapuri. Among 9 different varieties PTS-24 and Prathibha recorded higher fresh weight and BC Ratio.
- **7.** Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Varieties Belgaum Local and Prathibha found to be less tolerant to pests of turmeric.
- **8. Final recommendation for micro level situation:** Varieties Salem, PTS-24 and Pratibha found to be promising.
- **9.** Constraints identified and feedback for research: Availability of rhizomes for planting is the major constraint. Hence, Rhizome multiplication of promising varieties is essential.
- **10. Process of farmers' participation and their reaction:** Farmers participated actively and rhizomes produced by the farmers in OFT are given to other farmers for varietal spread by farmers themselves.

| 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 |
| Dairy | Year- round | Lower fertility | Assessment of effective | 20 | Hormone treatment and | Fertility (%) | | Higher fertility | Conceive percentage | | |
| | round | and treatment supplementation | | supplementation | Tech. opt. 1 | 16.70 | percentage | is higher | | | |
| | | calving | for repeat | echnique of micro | | Tech. opt. 2 | 58.30 | was observed in | than the normal | | |
| | | to repeat | breeding in | | vitamins | Tech. opt. 3 | 83.30 | alternate prac | practice | - | |
| | | breeding problem in cross bred cows | cows | | | | | practice (1 ₃) | and decrease in milk yield during trial period | - | |

3. Results of On Farm Trial : Assessment of effective treatment technique for repeat breeding in cross bred cows

Contd..

| Technology Assessed | Source of Technology | Production | Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year) | Net Return (Profit) in Rs. / unit | BC Ratio |
|---|----------------------|-----------------|--|--|---------------|
| 13 | 14 | 15 | 16 | 17 | 18 |
| Technology option 1 (Farmer's practice): Feeding of sprouted Horse gram | Farmer's practice | | | | |
| Technology option 2: At the time of AI Injecting Vit- E + Selenium (500 IU + 40 mg) + deworming with Fenbendazole 7.5 to 10mg + feeding of Curry leaves @ 250 gm/cow for 10 days.+ mineral mixture @ 50g/day / animal | KVAFSU, Bidar | All animals are | e in last trimester pregnancy collecting data o | . Economics will be calo n calving. | culated after |
| Technology option 3: Hormones therapy – Chorulon @1500IU on day of oestrous +feeding of 250gms of curry leaves 10 days +deworming with Fenbendazole 7.5 to 10 mg + Mineral mixture @ 50g/day / animal | TNAVAS, Chennai | | | | |

- 1) **Title of Technology Assessed :** Assessment of effective treatment technique for repeat breeding in cross bred cows
- 2) **Problem Definition:** Lower fertility and calving rates due to repeat breeding problem in cross bred cows

| SI. No. | Technological Options | Details of Technology | | | | | | | |
|------------|------------------------|---|--|--|--|--|--|--|--|
| 1. | Farmer's Practice | Feeding of sprouted Horse gram | | | | | | | |
| 2. | Technological Option 2 | At the time of Al Injecting Vit-E + Selenium (500 IU + 40 mg) + deworming with Fenbendazole 7.5 to 10mg + feeding of Curry leaves @ 250 gm/cow for 10 days.+ mineral mixture @ 50g/day / animal | | | | | | | |
| 3. | Technological Option 3 | Hormones therapy – Chorulon @1500IU on day of oestrous +feeding of 250gms of curry leaves 10 days +deworming with Fenbendazole 7.5 to 10 mg + Mineral mixture @ 50g/day / animal | | | | | | | |

3) Details of technologies selected for assessment

- 4) Source of technology: KVAFSU, Bidar and TNAVAS, Chennai
- 5) Production system and thematic area : Year-round
- 6) Performance of the Technology with performance indicators: Alternate practice recorded 83.3 percent fertility rate while recommended practice and farmer practice recorded fertility rates of 58.3 and 16.7 percent, respectively.
- 7) Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: Infertility due to repeat breeding problem in cross bred cows can be overcome by adopting scientific management practices and timely hormone therapy. Decrease in milk yield during trial period was observed in T₂ and T₃
- 8) Final recommendation for micro level situation: Micronutrient (vitamin + minerals) supplementation with hormone treatment will give good fertility rate in cross bred cows.
- **9) Constraints identified and feedback for research:** Need effective supplementation of micro minerals and vitamins through feed.
- **10) Process of farmers' participation and their reaction:** Good. The culling of repeat breeding cross bred cows was reduced and farmers are adopting the technology for other animals in the cluster villages.

4.D1. Results of Technologies Refined : NIL

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

PART V - FRONTLINE DEMONSTRATIONS

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

| SI. | Category | Farming | Season and | Сгор | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Area | (ha) | N d | o. of farmers emonstratio | s/ n | Reasons for shortfall in |
|-----|----------|-------------|--------------------------|---------------|----------------|------------------------------------|------------------------|--|----------|--------|--------|------------------------------|---------|--|
| NO | | Situation | Year | | | , , , , | | | Proposed | Actual | SC/ST | Others | Total | achievement |
| 1. | Oilseeds | Rain fed | <i>Kharif</i> , 2013 | Ground nut | GPBD-4 | - | Crop management | Integrated crop management in ground nut in acid soils | 2.0 | 2.0 | 5 | 0 | 5 | - |
| | | Irrigated | Summer, 2013 | Sunflower | - | Cargill hybrid (SH- 3859) | Crop management | ICM in sunflower | 5.0 | 4.8 | 8 | 4 | 12 | - |
| 2. | Pulses | Rainfed | Rabi/ summer, 2013 | Green gram | KKM-3 | - | Varietal evaluation | Short duration green gram variety KKM- 3 in rice fallows | 5.0 | 2.4 | 4 | 3 | 7 | Less availability of seeds of green gram variety KKM – 3 |
| 3. | Cereals | Irrigated | Kharif- 2013 | Paddy | MTU-1001 | - | IPM in paddy | Weed management through – Londax power herbicide @ 4 kg/ac. Seed treatment with Carbendazim @ 4 gm/kg Soil application of Carbofuron @2kg/ac | 5.0 | 5.0 | 4 | 8 | 12 | - |

| SI. | Category | Farming Season and Crop | | Crop Variety/ breed I | Hybrid Thematic area | Technology Demonstrated | Area | (ha) | N d | Reasons for shortfall in | | | | |
|-----|------------|----------------------------|-------------------------------------|-----------------------|----------------------|----------------------------|--|---|----------|--------------------------|-------|--------|-------|-------------|
| No | | Situation | Year | | | , | | | Proposed | Actual | SC/ST | Others | Total | achievement |
| | | | | | | | | nursery • Stem-borer management through pheromone traps & Chloropyriphos @ 0.2% • Sheath blight management through Hexaconazole @ 0.1% | | | | | | |
| | | Irrigated | Kharif- 2013 | Paddy | JGL-1798 | - | Manageme nt of sheath blight in paddy | Spraying of 0.02% Trifloxystrobin & Tebuconazole (NATIVO) | 4.0 | 4.0 | 3 | 7 | 10 | |
| | | Rain fed | <i>Kharif</i> 2013 | Ragi | GPU-66 | - | Crop management | ICM in Ragi | 5.0 | 3.2 | 2 | 6 | 8 | - |
| 4. | Millets | | | | | | | | | | | | | |
| 5. | Vegetables | Irrigated | Kharif- 2013 & rabi - 2013 | Tomato | - | Arka Raks hak | Varietal evaluation | High yielding and triple disease tolerant F1 hybrid tomato | 2.0 | 2.0 | 1 | 3 | 4 | |
| | | Irrigated | Kharif- 2013 | French bean | Arka Sharath | - | Varietal evaluation | Photoperiod insensitive, stringless, round and high yielding French bean variety <i>Arka</i> <i>Sharath</i> | 4.0 | 4.0 | - | 4 | 4 | |

| SI. | Category | Farming | Season and | Сгор | Variety/ breed | Hvbrid | Thematic area | Technology Demonstrated | Area (ha) | | N d | Reasons for shortfall in | | |
|-----|--|-----------|------------------------------------|------------|-------------------|--------|---------------------------------|--|-----------|--------|--------|--------------------------|-------|-------------|
| No | e a construction de la construct | Situation | Year | 0.00 | | | | | Proposed | Actual | SC/ST | Others | Total | achievement |
| 6. | Flowers | Irrigated | Kharif- 2013 & Rabi- 2013 | Gaillardia | Arabhavi Local | - | Low flower yield | High yielding garland purpose flower crop Gaillardia – Arabavi Local | 2.0 | 2.0 | 4 | - | 4 | - |
| 7. | Ornamental | | | | | | | | | | | | | |
| 8. | Fruit | Irrigated | Rabi / summer 2013-14 | Pineapple | Que | - | Management of heart rot | Soil application of Neem enriched Trichoderm a @ 20 gm/hill + Sucker treatment with Metalaxyl MZ @ 0.3% Drenching with Metalaxyl MZ when disease is noticed | 5.0 | 5.0 | 2 | 3 | 5 | |
| 9. | Spices and condiments | Irrigated | Kharif- 2013 | Ginger | Himachal | - | Management of shoot borer | Spraying of insecticide, Lambda Cyahalothrin @ 1.0 ml/L. | 5.0 | 5.0 | 4 | 10 | 14 | |
| 10. | Commercial | | | | | | | | | | | | | |
| 11. | Medicinal and aromatic | | | | | | | | | | | | | |

| SI. | Category | Farming | Season and | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Area (ha) | | N d | Reasons for shortfall in | | |
|-----|------------|-----------|-------------------------|--------------------------------|-----------------------|--------|--|---|-----------|--------|--------|--------------------------|-------|-------------|
| No | | Situation | Year | | | , | | | Proposed | Actual | SC/ST | Others | Total | achievement |
| 12 | Fodder | Irrigated | Kharif and summer | South African tall maize | Ksheramrutha | - | Increasing fodder | Introduction of fodder production units at farmer's field | | | | | | |
| | | | 2013 | Multicut sorghum | COFS 29 | - | production | | | 2 | | | | |
| | | | | Napier Hybrid | - | CO 4 | | | 2 | | - | 05 | 05 | |
| | | | | Cowpea | KBC 2 | | | | | | | | | |
| | | | | Lucerne | RL 88 | | | | | | | | | |
| 13 | Plantation | Irrigated | Kharif- 2013 | Arecanut | Sagar local | - | Manageme nt of Root grub | Application of neem cake and Imidachloprid @ 0.5 ml/ltr. | 5.0 | 5.0 | 2 | 4 | 6 | |
| | | Irrigated | Summe r-2014 | Arecanut | Maidan local | - | Manageme nt of inflorescence die back and caterpillar | Carbendazim + Mancozeb (SAAF) – 2 gm/ltr. Chloropyriphos – 2 ml/ltr. | 4.0 | 4.0 | 4 | 6 | 10 | |
| | | Irrigated | Kharif- 2013 | Arecanut | Thirthahalli local | - | Manageme nt of snails | Preparation and broadcasting of Poisonbait; 10 kg. Rice bran, 4 kg. jaggery, 100 gm. Methomyl | 5.0 | 5.0 | 4 | 8 | 12 | |
| 14 | Fibre | | | | | | | | | | | | | |

| SI. | Category | Farming | arming Season Technology Are | | Area | Area (ha) | | o. of farmers emonstratio | ;/ 1 | Reasons for shortfall in | | | | |
|-----|----------------------|-------------------------|------------------------------|------|----------------|----------------------|--|--|----------|-----------------------------|-------|--------|-------|------------------------------------|
| No | Calegory | Situation | Year | Crop | variety/ breed | пурпа | Thematic area | | Proposed | Actual | SC/ST | Others | Total | achievement |
| 15 | Dairy | Cows | Year round | - | Cross bred | Jerse y and HF | Increasing the milk fat percentage | Feeding by pass fat to cross bred cows during early lactation | 20 units | 13 units | - | 07 | 07 | High cost of critical inputs |
| 16 | Poultry | Back yard poultry | Year round | - | Swarnadhara | - | Increasing the poultry production in rural areas | Demonstration of Swarnadhara bird in backyard poultry | 5 units | 5 units | - | 05 | 05 | - |
| 17 | Rabbitry | | | | | | | | | | | | | |
| 18 | Pigerry | | | | | | | | | | | | | |
| 19 | Sheep and goat | | | | | | | | | | | | | |
| 20 | Duckery | | | | | | | | | | | | | |
| 21 | Common carps | | | | | | | | | | | | | |
| 22 | Mussels | | | | | | | | | | | | | |
| 23 | Ornamental fishes | | | | | | | | | | | | | |
| 24 | Oyster mushroom | | | | | | | | | | | | | |
| 25 | Button mushroom | | | | | | | | | | | | | |
| 26 | Vermicompost | | | | | | | | | | | | | |
| 27 | Sericulture | | | | | | | | | | | | | |
| 28 | Apiculture | | | | | | | | | | | | | |
| 29 | Implements | | | | | | | | | | | | | |
| | Others (specify) | | | | | | | | | | | | | |

| SI. | L Category Farmin | | Season and | Crop | Variety/ | Hybrid | Thematic | Technology | Season | Sta | atus soil | of | Previous crop | | |
|-----|-------------------|-----------|----------------------|---------------|----------|------------------------------------|------------------------|--|-----------------|-------------------|--------------|----|------------------|---|-------|
| NO. | | Situation | Year | • | breed | s area | | area | | area Demonstrated | | Ν | Ρ | Κ | grown |
| 1 | Oilseeds | Rain fed | <i>Kharif</i> , 2013 | Groundnut | GPBD-4 | | Crop management | Integrated crop management in ground nut in acid soils: Demonstration of groundnut variety -GPBD 4, application of lime based on soil test, seed treatment with PSB and Trichoderma and foliar nutrition of boron (0.2 %) | Kharif, 2013 | L | Н | М | Maize | | |
| | | Irrigated | Summer, 2013 | Sunflower | - | Cargill hybrid (SH- 3859) | Crop management | ICM in sunflower: Seed treatment with Imidacloprid @5g/kg, soil application of <i>Trichoderma</i> @ 4kg/ac, sulphur nutrition @ 20 kg/ha as SSP and foliar nutrition of Boron (0.2%) | Summer, 2013 | L | Н | Μ | Maize | | |
| 2 | Pulses | Rainfed | Summer, 2013 | Green gram | ККМ-З | - | Varietal evaluation | Short duration green gram variety KKM-3 in rice fallows | Summer, 2013 | L | Н | М | Paddy | | |

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

| SI. Category | | Farming | Season and | Crop | Variety/ | Hybrid | Thematic | Technology | Season | St | atus soil | of | Previous |
|--------------|----------|-----------|----------------------|-------|----------|--------|-----------------------|--|-----------------|----|--------------|----|-----------------------|
| No. | Category | Situation | Year | Стор | breed | пурпа | area | Demonstrated | and year | N | P | K | grown |
| 3 | Cereals | Irrigated | Year Kharif- 2013 | Paddy | MTU-1001 | - | IPM | IPM in paddy Weed management through – Londax power herbicide @ 4 kg/ac. Seed treatment with Carbendazim @ 4 gm/kg Soil application of Carbofuron @ 2kg/ac nursery Stem-borer management through pheromone traps & Chloropyriphos @ 0.2% Sheath blight management | Kharif- 2013 | | H | M | grown Paddy |
| | | | | | | | | through Hexaconazole @ 0.1% | | | | | |
| | | Irrigated | Kharif-2013 | Paddy | JGL-1798 | - | Disease management | Management of sheath blight in paddy : Spraying of 0.02% Trifloxystrobin & Tebuconazole (NATIVO) | Kharif- 2013 | L | H | М | Paddy |
| SI. | Category | Farming | Season and | Crop | Variety/ | Hybrid | Thematic | Technology | Season | St | atus soil | of | Previous crop |
|-----|------------|-----------|-----------------------------|----------------|----------------|-----------------|------------------------|--|-----------------------------|----|--------------|----|-----------------------|
| NO. | | Situation | Year | - | breed | - | area | Demonstrated | and year | Ν | P | K | grown |
| | | Rain fed | Kharif 2013 | Ragi | GPU-66 | - | Crop management | ICM in Ragi: Demonstration of new Ragi variety, GPU-66. Application of 12 kg. ZnSO₄/ha. and Borax @ 10 kg. / ha | Kharif 2013 | L | H | M | Maize |
| 4 | Millets | | | | | | | | | | | | |
| 5 | Vegetables | Irrigated | Kharif-2013 | French bean | Arka sharath | - | Varietal evaluation | Photoperiod insensitive, stringless, round and high yielding French bean variety | Kharif- 2013 | L | M | H | Tomato |
| | | Irrigated | Kharif & Rabi – 2013 | Tomato | - | Arka Rakshak | Varietal evaluation | High yielding and triple disease tolerant F1 hybrid tomato | Kharif & Rabi – 2013 | L | M | H | Beans and maize |
| 6 | Flowers | Irrigated | Rabi – 2013 | Gaillardia | Arabhavi local | - | Varietal evaluation | High yielding garland purpose flower crop Gaillardia | Rabi – 2013 | М | М | Н | Arecanut |
| 7 | Ornamental | | | | | | | | | | | | |
| 8 | Fruit | Irrigated | Rabi / summer 2013-14 | Pineapple | Que | - | Disease management | Management of heart rot • Soil application of Neem enriched <i>Trichoderma</i> @ 20 gm/hill + Sucker | Rabi / summer 2013-14 | L | H | M | Vegetable |

| SI. | Category | Farming | Season and | Crop | Variety/ | Hybrid | Thematic | Technology | Season | St | atus soil | of | Previous crop |
|-----|---------------------------|-----------|------------------------------|---------------------------------|--------------|--------|----------------------|---|------------------------|----|--------------|----|------------------|
| No. | - anogory | Situation | Year | | breed | | area | Demonstrated | and year | Ν | P | K | grown |
| | | | | | | | | treatment with Metalaxyl MZ @ 0.3% • Drenching with Metalaxyl MZ when disease is noticed | | | | | |
| 9 | Spices and condiments | Irrigated | Kharif-2013 | Ginger | Himachal | - | Pest management | Management of shoot borer: Spraying of insecticide, Lambda Cyahalothrin @ 1.0 ml/L. | Kharif- 2013 | L | H | М | Maize |
| 10 | Commercial | | | | | | | | | | | | |
| 11 | Medicinal and aromatic | | | | | | | | | | | | |
| 12 | Fodder | Irrigated | Kharif and summer 2013 | South African tall- Maize | Ksheramrutha | | Fodder production | Demonstration of fodder | Kharif and summer | L | н | М | Fodder |
| | | | | Multicut sorghum | COFS 29 | | | at farmer's field | 2013 | | | | |
| | | | | Napier Hybrid | - | CO 4 | | | | | | | |
| | | | | Cowpea | KBC 2 | | | | | | | | |
| | | | | Lucerne | RL 88 | | | | | | | | |
| 13 | Plantation | Irrigated | Throughout the year | Arecanut | Sagar local | - | Pest management | Management of Root grub: Application of neem cake and Imidachloprid @ 0.5 ml/ltr. | Throughout the year | L | Н | М | Arecanut |

| SI. | Category | Farming | Season | Cron | Variety/ | Hybrid | Thematic | Technology | Season | St | atus soil | of | Previous |
|-----|----------|-----------|------------------------|----------|-----------------------|--------|--------------------|--|------------------------|----|--------------|----|----------|
| No. | Catogory | Situation | Year | orop | breed | nyona | area | Demonstrated | and year | Ν | P | K | grown |
| | | Irrigated | Throughout the year | Arecanut | Maidan local | - | Pest management | Management of inflorescence die back and caterpillar: | Throughout the year | L | Н | М | Arecanut |
| | | | | | | | | Carbendazim + Mancozeb (SAAF) – 2 gm/ltr. Chloropyriphos – 2 ml/ltr. | | | | | |
| | | Irrigated | Throughout the year | Arecanut | Thirthahalli local | - | Pest management | Management of snails :Preparation and broadcasting of Poisonbait; 10 kg. Rice bran, 4 kg. jaggery, 100 gm. Methomyl | Throughout the year | L | Н | Μ | Arecanut |
| 14 | Fibre | | | | | | | | | | | | |

5.B. Results of Frontline Demonstrations

5.B.1. Crops

| | Name of the | | | Farming | No. of | Are | | Yiel | d (q/ha) | | % Increase | *Ecoi | nomics of (Rs. | demonstra /ha) | tion | ¢. | Economic' Rs. | s of check /ha) | |
|------------|--|-----------------|------------------------------------|-------------|-----------|-----------|--------|--------|----------|--------|---------------|--------|-------------------|-------------------|------|--------|------------------|--------------------|------|
| Crop | technology demonstrated | Variety | Hybrid | situation | Dem | a (ha) | | Demo | | Check | Gross | Gross | Gross | Net | ** | Gross | Gross | Net | ** |
| | | | | | 0. | (114) | н | L | A | oncon | Cost | Cost | Return | Return | BCR | Cost | Return | Return | BCR |
| Oilseeds | Integrated crop management in ground nut in acid soils | GPBD-4 | - | Rain fed | 5 | 2.0 | 13.13 | 10.00 | 11.23 | 9.50 | 18.21 | 21250 | 74118 | 52868 | 3.49 | 19550 | 62700 | 43200 | 3.21 |
| | ICM in sunflower | - | Cargill hybrid (SH- 3859) | Irrigated | 12 | 4.8 | | | | | | | In progr | ess | | | | | |
| Pulses | Short duration green gram variety KKM- 3 in rice fallows | ККМ-З | - | Rainfed | 7 | 2.4 | | | | | | | In progr | ess | - | | | | |
| Cereals | IPM in paddy | MTU-1001 | - | Irrigated | 12 | 5.00 | 66 | 48 | 59 | 48 | 22.92 | 34000 | 82600 | 48600 | 2.43 | 32000 | 67200 | 35200 | 2.10 |
| | Management of sheath blight in paddy | JGL-1798 | - | Irrigated | 10 | 4.00 | 67.5 | 48 | 55 | 46 | 19.56 | 28000 | 77000 | 49000 | 2.75 | 26000 | 64400 | 38400 | 2.48 |
| | ICM in Ragi | GPU-66 | - | Rain fed | 8 | 3.2 | 29.00 | 26.00 | 27.44 | 24.50 | 12.00 | 11800 | 49392 | 37592 | 4.19 | 11250 | 44100 | 32850 | 3.92 |
| | High yielding and triple disease tolerant F1 hybrid tomato <i>Arka</i> <i>Rakshak</i> | - | Arka Rakshak | Irrigated | 4 | 2.0 | 781.50 | 671.40 | 726.45 | 648.12 | 12.01 | 110890 | 435870 | 324988 | 3.93 | 128525 | 388872 | 260347 | 3.02 |
| Vegetables | Photoperiod insensitive, stringless, round and high yielding French bean variety - Arka Sharath | Arka Sharath | - | Irrigated | 4 | 2.0 | 255.5 | 224.5 | 240 | 190.20 | 26.18 | 72840 | 264000 | 191160 | 3.62 | 64225 | 190200 | 125975 | 2.96 |

| | Name of the | | | Farming | No. of | Are | | Yiel | d (q/ha) | | % Increase | *Ecor | nomics of ((Rs./ | demonstra 'ha) | tion | *Economics of check (Rs./ha) | | | | |
|---------------------------------|--|-----------------------|--------|-----------|-----------|-----------|--------|------------------|----------|-------------------|---------------|----------|----------------------|-------------------|------------|---------------------------------|---------------|--------------|-----------|--|
| Crop | technology | Variety | Hybrid | situation | Dem | a (ha) | | Demo | | Check | Gross | Gross | Gross | Net | ** | Gross | Gross | Net | ** | |
| | demonstrated | | | | 0. | (114) | н | L | Α | Oneck | Cost | Cost | Return | Return | BCR | Cost | Return | Return | BCR | |
| Flowers | High yielding garland purpose flower crop Gaillardia – Arabavi Local | Variety | - | Irrigated | 4 | 2.0 | 137.50 | 112.50 | 125.00 | 112.50 | 11.11 | 72415 | 250000 | 177585 | 3.45 | 78980 | 225000 | 146020 | 2.84 | |
| Fruit | Management of heart rot disease in pineapple | Que | - | Irrigated | 5 | 2.0 | | | | | | | In progre | ess | | | | | | |
| Spices and condimen ts | Management of shoot borer in ginger | Himachal | - | Irrigated | 14 | 5.00 | 346 | 234 | 282 | 228 | 23.68 | 336000 | 846000 | 510000 | 2.52 | 312000 | 684000 | 372000 | 2.19 | |
| South African tall- maize | | Ksheramrutha | | | | | Gree | n fodder | yield | | | | | | | | | | | |
| Multicut | Demonstrati on | COFS 29 | | | | | 222 | 145 | 183.5 | 140 | | | | CDESS (m | ulti out o | orabum on | d Naniar hy | brid viold | | |
| sorgnum | of fodder | | | Irrigated | 5 | 2 | 810 | 725 | 790 | and | 31.07 | taken fo | or only three | e cuttings a | nd Luce | rne crop sta | and in the fa | armers field | is yet to | |
| Napier Hybrid | units at | - | CO 4 | | | | 840 | 735 | 805 | local sorghum) | | | | - | be ha | arvested) | | , | | |
| Cowpea | lanner s neiu | KBC 2 | | | | | 125 | 105 | 118 | | | | | | | | | | | |
| Lucerne | | RL 88 | | | | | Crop | sown d summer | uring | | | | | | | | | | | |
| Plantation | Management of root grub in arecanut | Sagar local | - | Irrigated | 6 | 5.00 | 12.5 | 8.5 | 10.0 | 8.0 | 25.00 | 63000 | 200000 | 137000 | 3.17 | 54000 | 160000 | 106000 | 2.96 | |
| | Management of inflorescence die back and caterpillar in arecanut | Maidan Iocal | - | Irrigated | 10 | 4.00 | 11.75 | 7.5 | 9.25 | 7.5 | 23.33 | 60000 | 185000 | 125000 | 3.08 | 52000 | 150000 | 98000 | 2.88 | |
| | of snail in arecanut | Thirthahalli local | - | Irrigated | 12 | 5.0 | 12.75 | 8.25 | 9.50 | 7.75 | 22.58 | 62000 | 190000 | 128000 | 3.06 | 53000 | 155000 | 102000 | 2.92 | |

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

Data on additional parameters other than yield

| ICM in ground nut in acid soils | | | | | | | | | |
|---------------------------------|---|--|--|--|--|--|--|--|--|
| Parameter with unit | Demo | Check | | | | | | | |
| Shelling percentage | 70.2 68.8 | | | | | | | | |
| | Demo | | | | | | | | |
| Initial nutrient status of soil | pH – 6.80, EC – 0.018 dS/m, Available N - 174.36 kg/ha, | | | | | | | | |
| | Available P_2O_5 - 107.9 kg/ha, Available K_2O – 171.14 kg/ha | | | | | | | | |
| Nutrient status of soil after | pH - 7.16 EC - 0.031 dS/m, Available N - 239.52 kg/ha, | | | | | | | | |
| crop harvest | Available P ₂ O ₅ - 126.6 | 6 kg/ha, Available K ₂ O – 183.06 kg/ha | | | | | | | |

| ICM in sunflower | | | | | | | |
|---------------------------------|---|--|--|--|--|--|--|
| Parameter with unit Demo | | | | | | | |
| Initial nutrient status of soil | pH - 6.82, EC - 0.026 dS/m, Available N - 238.34 kg/ha, Available P_2O_5 - 114.46 kg/ha. Available K_2O - 206.27 kg/ha | | | | | | |
| IN PROGRESS | | | | | | | |

| Short duration green gram variety, KKM – 3 in rice fallows | | | | | | | |
|--|---|--|--|--|--|--|--|
| Parameter with unit Demo | | | | | | | |
| Initial nutrient status of soil | pH – 7.01, EC – 0.037 dS/m, Available N - 226.84 kg/ha, Available P_2O_5 - 1141.15 kg/ha, Available K_2O – 275.33 kg/ha | | | | | | |
| | IN PROGRESS | | | | | | |

| IPM in paddy | | | | | | | | |
|------------------------------|---------|-------|-------|--|--|--|--|--|
| Parameter with unit | t | Demo | Check | | | | | |
| No. of tillers / hill | | 23.50 | 16.00 | | | | | |
| Wood count mean No. nor com | Monocot | 1.82 | 2.74 | | | | | |
| weed count mean No. per sqm. | Dicot | 3.84 | 3.96 | | | | | |
| Sheath blight (%) | | 22.40 | 24.50 | | | | | |
| Stem borer (%) | | 8.20 | 11.40 | | | | | |
| Leaf roller (%) | | 9.60 | 12.20 | | | | | |
| Bacterial blight (%) | | 10.50 | 17.00 | | | | | |
| Blast (%) | | 11.50 | 13.50 | | | | | |

| Management of sheath blight in paddy | | | | | | | | |
|---|--------------------------------|--|--|--|--|--|--|--|
| Parameter with unit | Parameter with unit Demo Check | | | | | | | |
| Sheath blight incidence (%) 20.50 28.00 | | | | | | | | |

| ICM in Ragi | | | | | | | |
|---------------------------------|--|--|--|--|--|--|--|
| Parameter with unit | Demo | | | | | | |
| Initial nutrient status of soil | pH – 6.90, EC – 0.021 dS/m, Available N - 198.36 kg/ha, | | | | | | |
| | Available P_2O_5 - 104.85 kg/ha, Available K_2O – 154.28 kg/ha | | | | | | |
| Nutrient status of soil after | pH – 6.87, EC – 0.024 dS/m, Available N - 212.20 kg/ha, | | | | | | |
| crop harvest | Available P_2O_5 - 148.06 kg/ha, Available K_2O – 177.33 kg/ha | | | | | | |

| High yielding and triple disease tolerant F1-Hybrid Tomato-Arka Rakshak | | | | | | | | | |
|---|---|---------------|--|--|--|--|--|--|--|
| Parameter with unit | Demonstration (Arka Rakshak) | Local | | | | | | | |
| Duration (days) | 140 | 130-135 | | | | | | | |
| Disease resistant | Resistant to 3 diseases viz., Leaf curl virus, bacterial wilt, early blight | Not Resistant | | | | | | | |
| Fruit Weight (g) | 90 | 80-90 | | | | | | | |
| Keeping quality (Days) | 8-10 | 7-8 | | | | | | | |

| Photoperiod insensitive, high yielding and fiber less French bean variety- Arka Sharath | | | | | | | | |
|---|---------------------------------|---------------------------------|--|--|--|--|--|--|
| Parameter with unit | Demonstration (Arka Sharath) | Local (Anupama- Solar Seeds) | | | | | | |
| Duration (days) | 75 | 80 | | | | | | |
| Fiber content | Fiber less | Less fiber | | | | | | |
| Average Pod Weight (g) | 10.58 | 7.94 | | | | | | |
| Average Pod length (cm) | 17.12 | 12.31 | | | | | | |
| Yellow vein Mosaic (%) | 0.01 | 0.1 | | | | | | |

| High yielding garland purpose flower crop Gaillardia – Arabhavi Local | | | | | | | | |
|---|-----------------------------------|-------|--|--|--|--|--|--|
| Parameter with unit | Demonstration (Arabhavi Local) | Local | | | | | | |
| Keeping quality of flowers (hr) | 48 | 42 | | | | | | |
| Flower colour Yellow Yellow and Pink | | | | | | | | |

| Management of shoot borer in ginger | | | | | | |
|-------------------------------------|------|-------|--|--|--|--|
| Parameter with unit Demo Check | | | | | | |
| Shoot borer incidence (%) | 12.5 | 23.00 | | | | |

| Demonstration of fodder production units at farmer's field | | | | | | | |
|--|----|----|--|--|--|--|--|
| Parameter with unit Demo Check | | | | | | | |
| Milk Yield (L/day/animal) | 16 | 12 | | | | | |
| Milk fat percentage | 4 | 3 | | | | | |

| Management of root grub in arecanut | | | | | | | |
|-------------------------------------|-----|-----|--|--|--|--|--|
| Parameter with unit Demo Check | | | | | | | |
| No. of grubs per plant | 2.5 | 7.0 | | | | | |

| Management of inflorescence dieback and caterpillar in arecanut | | | | | | | | |
|---|-----|------|--|--|--|--|--|--|
| Parameter with unit Demo Check | | | | | | | | |
| Dieback incidence (%) | 4.5 | 16 | | | | | | |
| Inflorescence caterpillar incidence (%) | 6 | 17.5 | | | | | | |

| Management of snail in arecanut | | | | | | | |
|---------------------------------|-------|-------|--|--|--|--|--|
| Parameter with unit Demo Check | | | | | | | |
| Snail control (%) | 71.05 | 43.83 | | | | | |

| 5.B.2. Livestock and related enterprise |
|---|
|---|

| Type of Name of the technology | | – No. of | | No. | No. Yield (q/ha) | | | % | *Economics of demonstration Rs./unit) | | | | *Economics of check (Rs./unit) | | | | |
|--------------------------------|--|------------------|------|-------------|------------------|---------|------|--------|--|--------|----------|-----------|-----------------------------------|-----------------------|------------|-----------|---------|
| livestock | demonstrated | Breed | Demo | Of Units | Der | nonstra | tion | Check | Increase | Gross | Gross | Net | ** | Gross | Gross | Net | ** |
| | | | | 0 | H | L | Α | if any | | Cost | Return | Return | BCR | Cost | Return | Return | BCR |
| Dairy | Feeding by pass fat to lactating cross bred cows during early lactation | Jersey and HF | 13 | 13 | 5.5 | 3.50 | 4.00 | 2.5 | 60.0 | 26496 | 35802 | 9306 | 1.40 | 24350 | 27000 | 2650 | 1.10 |
| Poultry | Demonstration of Swarnadhara bird in backyard poultry | Swarnadhara | 5 | 5 | 1250 | 990 | 1150 | 650 | 75 | IN PRC |)GRESS (| Birds are | 4 month be col | ns old. Da lected) | ita on egg | productio | n is to |

Data on additional parameters other than yield

| Feeding by pass fat to lactating cross bred cows during early lactation | | | | | | | | |
|---|------|-------|--|--|--|--|--|--|
| Parameter with unit Demo Check | | | | | | | | |
| Milk Yield (L/day/animal) | 15.3 | 15.00 | | | | | | |
| Conceive percentage | 73.0 | 65.0 | | | | | | |

| Demonstration of Swarnadhara bird in backyard poultry | | | | | | | |
|---|-----|------|--|--|--|--|--|
| Parameter with unit Demo Check | | | | | | | |
| Mortality (%) (up to 8 th Week) | 2.0 | 12.0 | | | | | |

5.B.3. Fisheries : NIL

5.B.4. Other enterprises : NIL

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

| SI. No. | Activity | No. of activities organised | Number of participants | Remarks |
|------------|--------------------------------------|--------------------------------|---------------------------|---------|
| 1 | Field days | 7 | 335 | |
| 2 | Farmers Training | 23 | 997 | |
| 3 | Media coverage (TV) | 3 | - | |
| 4 | Training for extension functionaries | 1 | 20 | |
| 5 | Others (Please specify) | | | |

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

PART VI – DEMONSTRATIONS ON CROP HYBRIDS

Demonstration details on crop hybrids

| Type of Breed | Name of the | Name of | No. of | Area | Yield (q/ha) | | | % | * Economics of demonstration (Rs./ha) | | | | * Economics of check (Rs./ha) | | | | |
|------------------|--|-----------------|--------|------|--------------|--------|--------|--------|--|--------|--------|--------|----------------------------------|--------|--------|--------|------|
| Breed | demonstrated | hybrid | Demo | (ha) | | Demo | | Check | Increase | Gross | Gross | Net | ** | Gross | Gross | Net | ** |
| Vegetable | | , | | | н | L | A | | | Cost | Return | Return | BCK | Cost | Return | Return | BCK |
| crops | | | | | | | | | | | | | | | | | |
| Tomato | High yielding and triple disease tolerant F1 hybrid tomato Arka Rakshak | Arka Rakshak | 4 | 2.0 | 781.50 | 671.40 | 726.45 | 648.12 | 12.01 | 110890 | 435870 | 324988 | 3.93 | 128525 | 388872 | 260347 | 3.02 |
| Total | | | 4 | 2.0 | 781.50 | 671.40 | 726.45 | 648.12 | 12.01 | 110890 | 435870 | 324988 | 3.93 | 128525 | 388872 | 260347 | 3.02 |

H-High L-Low, A-Average

PART VII. TRAINING

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

| | No. of | | | | No | o. of Particip | ants | | | | |
|--|---------|------|---------|-------|------|----------------|-------|------|------------|-------|--|
| Area of training | Courses | | General | | | SC/ST | | | Grand Tota | | |
| | 0001303 | Male | Female | Total | Male | Female | Total | Male | Female | Total | |
| Crop Production | | | | | | | | | | | |
| Weed Management | | | | | | | | | | | |
| Resource Conservation Technologies | | | | | | | | | | | |
| Cropping Systems | | | | | | | | | | | |
| Crop Diversification | | | | | | | | | | | |
| Integrated Farming | 3 | 58 | | 58 | 13 | | 13 | 71 | | 71 | |
| Micro Irrigation/Irrigation | | | | | | | | | | | |
| Seed production | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | |
| Integrated Crop Management | 7 | 293 | 27 | 320 | 98 | 3 | 101 | 391 | 30 | 421 | |
| Soil and Water Conservation | | | | | | | | | | | |
| Integrated Nutrient Management | | | | | | | | | | | |
| Production of organic inputs | | | | | | | | | | | |
| Others (pl.specify) Organic Farming | 2 | 57 | 4 | 61 | 9 | | 9 | 66 | 4 | 70 | |
| Horticulture | | | | | | | | | | | |
| a) Vegetable Crops | | | | | | | | | | | |
| Production of low value and high volume crop | 1 | 49 | 1 | 50 | 17 | | 17 | 66 | 1 | 67 | |
| Off-season vegetables | | | | | | | | | | | |
| Nursery raising | 1 | 26 | | 26 | 12 | | 12 | 38 | | 38 | |
| Exotic vegetables | | | | | | | | | | | |
| Export potential vegetables | | | | | | | | | | | |
| Grading and standardization | | | | | | | | | | | |
| Protective cultivation | | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | | |
| b) Fruits | | | | | | | | | | | |

| Area of training | No. of | | | | No | of Particip | ants | | | |
|---|---------|------|---------|-------|------|-------------|-------|------|------------|-------|
| Area of training | Courses | | General | | | SC/ST | | | Grand Tota | l |
| | 0001303 | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Training and Pruning | | | | | | | | | | |
| Layout and Management of Orchards | | | | | | | | | | |
| Cultivation of Fruit | | | | | | | | | | |
| Management of young plants/orchards | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | |
| Export potential fruits | | | | | | | | | | |
| Micro irrigation systems of orchards | | | | | | | | | | |
| Plant propagation techniques | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| c) Ornamental Plants | | | | | | | | | | |
| Nursery Management | | | | | | | | | | |
| Management of potted plants | | | | | | | | | | |
| Export potential of ornamental plants | | | | | | | | | | |
| Propagation techniques of Ornamental Plants | 2 | 32 | 6 | 38 | 17 | 2 | 19 | 49 | 8 | 57 |
| Others (pl.specify) | | | | | | | | | | |
| d) Plantation crops | | | | | | | | | | |
| Production and Management technology | 1 | 80 | 4 | 84 | 36 | | 36 | 116 | 4 | 120 |
| Processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| e) Tuber crops | | | | | | | | | | |
| Production and Management technology | 2 | 26 | 36 | 62 | 12 | 26 | 38 | 38 | 62 | 100 |
| Processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| f) Spices | | | | | | | | | | |
| Production and Management technology | 1 | 6 | | 6 | 2 | 1 | 3 | 8 | 1 | 9 |
| Processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| g) Medicinal and Aromatic Plants | | | | | | | | | | |

| Area of training | No. of | | | | No | o. of Particip | ants | | |] |
|--|---------|------|---------|-------|------|----------------|-------|------|------------|-------|
| Area of training | NO. OF | | General | | | SC/ST | | | Grand Tota | |
| | Courses | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Nursery management | | | | | | | | | | |
| Production and management technology | | | | | | | | | | |
| Post harvest technology and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Soil Health and Fertility Management | | | | | | | | | | |
| Soil fertility management | 1 | 39 | 3 | 42 | 10 | | 10 | 49 | 3 | 52 |
| Integrated water management | | | | | | | | | | |
| Integrated nutrient management | 1 | 35 | | 35 | 10 | | 10 | 45 | | 45 |
| Production and use of organic inputs | | | | | | | | | | |
| Management of Problematic soils | | | | | | | | | | |
| Micro nutrient deficiency in crops | 1 | 7 | | 7 | 3 | | 3 | 10 | | 10 |
| Nutrient use efficiency | | | | | | | | | | |
| Balanced use of fertilizers | | | | | | | | | | |
| Soil and water testing | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Livestock Production and Management | | | | | | | | | | |
| Dairy Management | 3 | 52 | 20 | 72 | 50 | 15 | 65 | 102 | 35 | 137 |
| Poultry Management | 1 | 9 | 1 | 10 | 4 | | 4 | 13 | 1 | 14 |
| Piggery Management | | | | | | | | | | |
| Rabbit Management | | | | | | | | | | |
| Animal Nutrition Management | 1 | 31 | | 31 | 25 | | 25 | 56 | | 56 |
| Animal Disease Management | 1 | 15 | 6 | 21 | 9 | 2 | 11 | 24 | 8 | 32 |
| Feed and Fodder technology | 4 | 107 | 9 | 116 | 102 | 43 | 145 | 209 | 52 | 261 |
| Production of quality animal products | | | | | | | | | | |
| Others (pl.specify) Scientific sheep rearing | 1 | 39 | | 39 | 14 | 3 | 17 | 53 | 3 | 56 |
| Home Science/Women empowerment | | | | | | | | | | |
| Household food security by kitchen gardening and nutrition gardening | | | | | | | | | | |

| Area of training | No. of | | | | No | . of Particip | ants | | | |
|---|---------|------|---------|-------|------|---------------|-------|------|------------|-------|
| Area of training | Courses | | General | | | SC/ST | | | Grand Tota | l |
| | 0001363 | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Design and development of low/minimum cost diet | | | | | | | | | | |
| Designing and development for high nutrient efficiency diet | | | | | | | | | | |
| Minimization of nutrient loss in processing | | | | | | | | | | |
| Processing and cooking | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | |
| Storage loss minimization techniques | | | | | | | | | | |
| Value addition | 1 | 15 | 4 | 19 | 5 | 3 | 8 | 20 | 7 | 27 |
| Women empowerment | | | | | | | | | | |
| Location specific drudgery production | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | |
| Women and child care | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Agril. Engineering | | | | | | | | | | |
| Farm machinery and its maintenance | | | | | | | | | | |
| Installation and maintenance of micro irrigation systems | | | | | | | | | | |
| Use of Plastics in farming practices | | | | | | | | | | |
| Production of small tools and implements | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | |
| Small scale processing and value addition | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Plant Protection | | | | | | | | | | |
| Integrated Pest Management | 1 | 12 | | 12 | 10 | | 10 | 22 | | 22 |
| Integrated Disease Management | 1 | 9 | | 9 | 4 | | 4 | 13 | | 13 |
| Bio-control of pests and diseases | 1 | 10 | 3 | 13 | 15 | 7 | 22 | 25 | 10 | 35 |

| Area of training | No. of | | | | No | . of Particip | ants | | | |
|--|---------|------|---------|-------|------|---------------|-------|------|------------|-------|
| Area of training | Courses | | General | | | SC/ST | | | Grand Tota | |
| - | 0001303 | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Production of bio control agents and bio pesticides | | | | | | | | | | |
| Others (pl.specify) Safe use of pesticides | 1 | 70 | 10 | 80 | 20 | 4 | 24 | 90 | 14 | 104 |
| Fisheries | | | | | | | | | | |
| Integrated fish farming | | | | | | | | | | |
| Carp breeding and hatchery management | | | | | | | | | | |
| Carp fry and fingerling rearing | | | | | | | | | | |
| Composite fish culture | | | | | | | | | | |
| Hatchery management and culture of freshwater prawn | | | | | | | | | | |
| Breeding and culture of ornamental fishes | | | | | | | | | | |
| Portable plastic carp hatchery | | | | | | | | | | |
| Pen culture of fish and prawn | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | |
| Edible oyster farming | | | | | | | | | | |
| Pearl culture | | | | | | | | | | |
| Fish processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Production of Inputs at site | | | | | | | | | | |
| Seed Production | | | | | | | | | | |
| Planting material production | | | | | | | | | | |
| Bio-agents production | | | | | | | | | | |
| Bio-pesticides production | | | | | | | | | | |
| Bio-fertilizer production | | | | | | | | | | |
| Vermi-compost production | | | | | | | | | | |
| Organic manures production | | | | | | | | | | |
| Production of fry and fingerlings | | | | | | | | | | |
| Production of Bee-colonies and wax sheets | | | | | | | | | | |
| Small tools and implements | | | | | | | | | | |

| | No. of | | | | No | o. of Particip | ants | | | |
|---|---------|------|---------|-------|------|----------------|-------|------|--|-------|
| Area of training | | | General | | | SC/ST | | | Grand Tota | l |
| | 0001363 | Male | Female | Total | Male | Female | Total | Male | Grand Total Male Female 9 22 9 22 66 6 25 11 87 20 1 1 1 1 1 1 1 1 1 302 | Total |
| Production of livestock feed and fodder | | | | | | | | | | |
| Production of Fish feed | | | | | | | | | | |
| Mushroom production | | | | | | | | | | |
| Apiculture | 1 | 6 | 15 | 21 | 3 | 7 | 10 | 9 | 22 | 31 |
| Others (Pl.specify) | | | | | | | | | | |
| Capacity Building and Group Dynamics | | | | | | | | | | |
| Leadership development | | | | | | | | | | |
| Group dynamics | | | | | | | | | | |
| Formation and Management of SHGs | 2 | 13 | | 13 | 53 | 6 | 59 | 66 | 6 | 72 |
| Mobilization of social capital | | | | | | | | | | |
| Entrepreneurial development of farmers/youths | 1 | 18 | 7 | 25 | 7 | 4 | 11 | 25 | 11 | 36 |
| Others (pl.specify) | 2 | 59 | 14 | 73 | 28 | 6 | 34 | 87 | 20 | 107 |
| Agro-forestry | | | | | | | | | | |
| Production technologies | | | | | | | | | | |
| Nursery management | | | | | | | | | | |
| Integrated Farming Systems | | | | | | | | | | |
| Others (PI. specify) | | | | | | | | | | |
| TOTAL | 45 | 1173 | 170 | 1343 | 588 | 132 | 720 | 1761 | 302 | 2063 |

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

| A | No. of | No. of Participants | | | | | | | | | | |
|------------------------------------|---------|---------------------|---------|-------|------|--------|-------|------|------------|-------|--|--|
| Area of training | | | General | | | SC/ST | | | Grand Tota | al 🛛 | | |
| | Courses | Male | Female | Total | Male | Female | Total | Male | Female | Total | | |
| Crop Production | | | | | | | | | | | | |
| Weed Management | | | | | | | | | | | | |
| Resource Conservation Technologies | | | | | | | | | | | | |
| Cropping Systems | | | | | | | | | | | | |
| Crop Diversification | | | | | | | | | | | | |
| Integrated Farming | | | | | | | | | | | | |

| Micro Irrigation/Irrigation | | | | | | | | | | |
|--|---|----|---|----|----|---|----|----|---|----|
| Seed production | | | | | | | | | | |
| Nursery management | | | | | | | | | | |
| Integrated Crop Management | | | | | | | | | | |
| Soil and Water Conservation | | | | | | | | | | |
| Integrated Nutrient Management | | | | | | | | | | |
| Production of organic inputs | 3 | 40 | | 40 | 27 | 2 | 29 | 67 | 2 | 69 |
| Others (pl.specify) | | | | | | | | | | |
| Horticulture | | | | | | | | | | |
| a) Vegetable Crops | | | | | | | | | | |
| Production of low value and high volume crop | 1 | 28 | | 28 | 11 | | 11 | 39 | | 39 |
| Off-season vegetables | | | | | | | | | | |
| Nursery raising | | | | | | | | | | |
| Exotic vegetables | | | | | | | | | | |
| Export potential vegetables | | | | | | | | | | |
| Grading and standardization | | | | | | | | | | |
| Protective cultivation | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| b) Fruits | | | | | | | | | | |
| Training and Pruning | | | | | | | | | | |
| Layout and Management of Orchards | | | | | | | | | | |
| Cultivation of Fruit | 1 | 10 | 5 | 15 | 7 | 3 | 10 | 17 | 8 | 25 |
| Management of young plants/orchards | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | |
| Export potential fruits | | | | | | | | | | |
| Micro irrigation systems of orchards | | | | | | | | | | |
| Plant propagation techniques | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| c) Ornamental Plants | | | | | | | | | | |
| Nursery Management | | | | | | | | | | |
| Management of potted plants | | | | | | | | | | |
| Export potential of ornamental plants | | | | | | | | | | |
| Propagation techniques of Ornamental Plants | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |

| d) Plantation crops | | | | | | | | | | |
|--|---|----|----|----|----|----|----|----|----|----|
| Production and Management technology | 2 | 42 | 11 | 53 | | | | 42 | 11 | 53 |
| Processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| e) Tuber crops | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| f) Spices | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| g) Medicinal and Aromatic Plants | | | | | | | | | | |
| Nursery management | | | | | | | | | | |
| Production and management technology | 1 | 12 | 2 | 14 | 10 | 2 | 12 | 22 | 4 | 26 |
| Post harvest technology and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Soil Health and Fertility Management | | | | | | | | | | |
| Soil fertility management | | | | | | | | | | |
| Integrated water management | | | | | | | | | | |
| Integrated nutrient management | | | | | | | | | | |
| Production and use of organic inputs | | | | | | | | | | |
| Management of Problematic soils | | | | | | | | | | |
| Micro nutrient deficiency in crops | | | | | | | | | | |
| Nutrient use efficiency | | | | | | | | | | |
| Balanced use of fertilizers | | | | | | | | | | |
| Soil and water testing | | | | | | | | | | |
| Others (pl.specify) Use of biofertilizers | 1 | 4 | 36 | 40 | | 20 | 20 | 4 | 56 | 60 |
| Livestock Production and Management | | | | | | | | | | |
| Dairy Management | 1 | 32 | 2 | 34 | 4 | | 4 | 36 | 2 | 38 |
| Poultry Management | 2 | 24 | | 24 | 2 | | 2 | 26 | | 26 |
| Piggery Management | | | | | | | | | | |
| Rabbit Management | | | | | | | | | | |
| Animal Nutrition Management | 1 | 6 | 2 | 8 | 22 | 8 | 30 | 28 | 10 | 38 |

| Animal Disease Management | | | | | | | | | | |
|--|---|----|----|----|----|---|----|----|----|-----|
| Feed and Fodder technology | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Home Science/Women empowerment | | | | | | | | | | |
| Household food security by kitchen gardening | | | | | | | | | | |
| and nutrition gardening | | | | | | | | | | |
| Design and development of low/minimum cost diet | | | | | | | | | | |
| Designing and development for high nutrient | | | | | | | | | | |
| efficiency diet | | | | | | | | | | |
| Minimization of nutrient loss in processing | | | | | | | | | | |
| Processing and cooking | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | |
| Storage loss minimization techniques | | | | | | | | | | |
| Value addition | | | | | | | | | | |
| Women empowerment | | | | | | | | | | |
| Location specific drudgery production | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | |
| Women and child care | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Agril. Engineering | | | | | | | | | | |
| Farm machinery and its maintenance | | | | | | | | | | |
| Installation and maintenance of micro irrigation | | | | | | | | | | |
| systems | | | | | | | | | | |
| Use of Plastics in farming practices | | | | | | | | | | |
| Production of small tools and implements | | | | | | | | | | |
| Repair and maintenance of farm machinery | | | | | | | | | | |
| and implements | | | | | | | | | | |
| Small scale processing and value addition | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Plant Protection | | | | | | | | | | |
| Integrated Pest Management | 4 | 69 | 16 | 85 | 19 | 9 | 28 | 88 | 25 | 113 |
| Integrated Disease Management | | | | | | | | | | |

| Bio-control of pests and diseases | 1 | 31 | - | 31 | 3 | - | 3 | 34 | - | 34 |
|--|---|----|---|----|---|---|---|----|---|----|
| Production of bio control agents and bio | | | | | | | | | | |
| pesticides | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Fisheries | | | | | | | | | | |
| Integrated fish farming | | | | | | | | | | |
| Carp breeding and hatchery management | | | | | | | | | | |
| Carp fry and fingerling rearing | | | | | | | | | | |
| Composite fish culture | | | | | | | | | | |
| Hatchery management and culture of freshwater prawn | | | | | | | | | | |
| Breeding and culture of ornamental fishes | | | | | | | | | | |
| Portable plastic carp hatchery | | | | | | | | | | |
| Pen culture of fish and prawn | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | |
| Edible oyster farming | | | | | | | | | | |
| Pearl culture | | | | | | | | | | |
| Fish processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Production of Inputs at site | | | | | | | | | | |
| Seed Production | | | | | | | | | | |
| Planting material production | | | | | | | | | | |
| Bio-agents production | | | | | | | | | | |
| Bio-pesticides production | | | | | | | | | | |
| Bio-fertilizer production | | | | | | | | | | |
| Vermi-compost production | | | | | | | | | | |
| Organic manures production | | | | | | | | | | |
| Production of fry and fingerlings | | | | | | | | | | |
| Production of Bee-colonies and wax sheets | | | | | | | | | | |
| Small tools and implements | | | | | | | | | | |
| Production of livestock feed and fodder | | | | | | | | | | |
| Production of Fish feed | | | | | | | | | | |
| Mushroom production | | | | | | | | | | |

| Apiculture | | | | | | | | | | |
|---|----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| Others (pl.specify) | | | | | | | | | | |
| Capacity Building and Group Dynamics | | | | | | | | | | |
| Leadership development | | | | | | | | | | |
| Group dynamics | | | | | | | | | | |
| Formation and Management of SHGs | 1 | - | 67 | 67 | - | 15 | 15 | - | 82 | 82 |
| Mobilization of social capital | | | | | | | | | | |
| Entrepreneurial development of farmers/youths | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Agro-forestry | | | | | | | | | | |
| Production technologies | | | | | | | | | | |
| Nursery management | | | | | | | | | | |
| Integrated Farming Systems | | | | | | | | | | |
| Others (PI. specify) Coconut Palm climbing – | З | 43 | 2 | 45 | 13 | 2 | 15 | 56 | 4 | 60 |
| skill development training | 0 | -70 | 2 | -+0 | 10 | 2 | 10 | | - | |
| TOTAL | 22 | 341 | 143 | 484 | 118 | 61 | 179 | 459 | 204 | 663 |

7.C. Training for Rural Youths including sponsored training programmes (on campus) : NIL

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

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

| | No. of | No. of Participants | | | | | | | | | | |
|---|---------|---------------------|--------|-------|-------|--------|-------|-------------|--------|-------|--|--|
| Area of training | NO. OI | General | | | SC/ST | | | Grand Total | | | | |
| | Courses | Male | Female | Total | Male | Female | Total | Male | Female | Total | | |
| Productivity enhancement in field crops | 1 | 15 | 25 | 40 | - | - | - | 15 | 25 | 40 | | |
| Integrated Pest Management | | | | | | | | | | | | |
| Integrated Nutrient management | | | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | | | |
| Protected cultivation technology | | | | | | | | | | | | |
| Production and use of organic inputs | 1 | 34 | 5 | 39 | - | - | - | 34 | 5 | 39 | | |
| Care and maintenance of farm machinery and implements | | | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | | | |

| Formation and Management of SHGs | | | | | | | | | | |
|--|----|-----|----|-----|----|---|----|-----|----|-----|
| Women and Child care | | | | | | | | | | |
| Low cost and nutrient efficient diet designing | | | | | | | | | | |
| Group Dynamics and farmers organization | | | | | | | | | | |
| Information networking among farmers | | | | | | | | | | |
| Capacity building for ICT application | | | | | | | | | | |
| Management in farm animals | | | | | | | | | | |
| Livestock feed and fodder production | | | | | | | | | | |
| Household food security | | | | | | | | | | |
| Any other (pl.specify) | | | | | | | | | | |
| Modified guidelines of ATMA | 1 | 27 | 3 | 30 | 3 | | 3 | 30 | 3 | 33 |
| Organic farming | 1 | 34 | 5 | 39 | | | | 34 | 5 | 39 |
| Use of trichoderma in forest nursery | 1 | 30 | | 30 | 10 | | 10 | 40 | | 40 |
| Modified guidelines of ATMA | 1 | 27 | 3 | 30 | 8 | | 8 | 35 | 3 | 38 |
| Advanced production technologies in fruit and spice crops | 1 | 19 | 1 | 20 | | | | 19 | 1 | 20 |
| Model Kitchen garden | 1 | 9 | 31 | 40 | | | | 9 | 31 | 40 |
| Scientist and Extension worker interface in arecanut and coconut | 1 | 48 | 8 | 56 | | | | 48 | 8 | 56 |
| Programme planning | 1 | 13 | 16 | 29 | | | | 13 | 16 | 29 |
| Documentation of success stories | 1 | 32 | | 32 | | | | 32 | | 32 |
| Total | 11 | 288 | 97 | 385 | 21 | 0 | 21 | 309 | 97 | 406 |

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

| | No. of | of No. of Participants | | | | | | | | | |
|---|--------|------------------------|--------|-------|------|--------|-------|-------------|--------|-------|--|
| Area of training | Course | Course General | | | | SC/ST | | Grand Total | | | |
| | S | Male | Female | Total | Male | Female | Total | Male | Female | Total | |
| Productivity enhancement in field crops | | | | | | | | | | | |
| Integrated Pest Management | | | | | | | | | | | |
| Integrated Nutrient management | | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | | |
| Protected cultivation technology | | | | | | | | | | | |

| Production and use of organic inputs | | | | | | | | | | 1 |
|---|---|----|---|----|---|---|---|----|---|----|
| Care and maintenance of farm machinery and implements | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | |
| Formation and Management of SHGs | | | | | | | | | | |
| Women and Child care | | | | | | | | | | |
| Low cost and nutrient efficient diet designing | | | | | | | | | | |
| Group Dynamics and farmers organization | | | | | | | | | | |
| Information networking among farmers | | | | | | | | | | |
| Capacity building for ICT application | | | | | | | | | | |
| Management in farm animals | | | | | | | | | | |
| Livestock feed and fodder production | | | | | | | | | | |
| Household food security | | | | | | | | | | |
| Any other (pl.specify) | | | | | | | | | | |
| Establishment and maintenance of nutritional gardens | 1 | 12 | 8 | 20 | - | - | - | 12 | 8 | 20 |
| Total | 1 | 12 | 8 | 20 | - | - | - | 12 | 8 | 20 |

7.G. Sponsored training programmes conducted

| | | No. of | No. of Participants | | | | | | | | | |
|-------|---|---------|---------------------|--------|-------|-------|--------|-------|------|------------|-------|--|
| S.No. | Area of training | | General | | | SC/ST | | | | Grand Tota | ıl | |
| | | Courses | Male | Female | Total | Male | Female | Total | Male | Female | Total | |
| 1 | Crop production and management | | | | | | | | | | | |
| 1.a. | Increasing production and productivity of crops | | | | | | | | | | | |
| 1.b. | Commercial production of vegetables | | | | | | | | | | | |
| 2 | Production and value addition | | | | | | | | | | | |
| 2.a. | Fruit Plants | | | | | | | | | | | |
| 2.b. | Ornamental plants | | | | | | | | | | | |
| 2.c. | Spices crops | | | | | | | | | | | |
| 3. | Soil health and fertility management | | | | | | | | | | | |
| 4 | Production of Inputs at site | | | | | | | | | | | |
| 5 | Methods of protective cultivation | | | | | | | | | | | |
| 6 | Others (pl.specify) | | | | | | | | | | | |

| 7 | Post harvest technology and value addition | | | | | | | | | | |
|-------|---|---|----|----|----|----|----|----|----|----|-----|
| 7.a. | Processing and value addition | | | | | | | | | | |
| 7.b. | Others (pl.specify) | | | | | | | | | | |
| 8 | Farm machinery | | | | | | | | | | |
| 8.a. | Farm machinery, tools and implements | | | | | | | | | | |
| 8.b. | Others (pl.specify) | | | | | | | | | | |
| 9. | Livestock and fisheries | | | | | | | | | | |
| 10 | Livestock production and management | | | | | | | | | | |
| 10.a. | Animal Nutrition Management | | | | | | | | | | |
| 10.b. | Animal Disease Management | | | | | | | | | | |
| 10.c | Fisheries Nutrition | | | | | | | | | | |
| 10.d | Fisheries Management | | | | | | | | | | |
| 10.e. | Others (pl.specify) | | | | | | | | | | |
| 11. | Home Science | | | | | | | | | | |
| 11.a. | Household nutritional security | | | | | | | | | | |
| 11.b. | Economic empowerment of women | | | | | | | | | | |
| 11.c. | Drudgery reduction of women | | | | | | | | | | |
| 11.d. | Others (pl.specify) | | | | | | | | | | |
| 12 | Agricultural Extension | | | | | | | | | | |
| 12.a. | Capacity Building and Group Dynamics | | | | | | | | | | |
| 12.b. | Others (pl.specify) | | | | | | | | | | |
| | Protection of plant varieties and farmers' right act-2001 | 1 | 50 | 20 | 70 | 17 | 13 | 30 | 67 | 33 | 100 |
| | Total | 1 | 50 | 20 | 70 | 17 | 13 | 30 | 67 | 33 | 100 |

Details of sponsoring agencies involved

- 1. Coconut development board, Cochin, Gol
- 2. Sanjeevini (Ministry of panchayath raj and rural development)
- 3. SAMETI South, Bangalore
- 4. Protection of Plant Varieties and Farmers' Rights Authority, New Delhi

| 7.H. Details of Vocationa | I Training Programmes | carried out b | y KVKs for rural | youth |
|---------------------------|-----------------------|---------------|------------------|-------|
|---------------------------|-----------------------|---------------|------------------|-------|

| | | No. of Participants | | | | | | | | | |
|-------|---|---------------------|------|---------|-------|------|--------|-------|------|------------|-------|
| S.No. | Area of training | NO. OF | | General | | | SC/ST | | | Grand Tota | |
| | | Courses | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| 1 | Crop production and management | | | | | | | | | | |
| 1.a. | Commercial floriculture | | | | | | | | | | |
| 1.b. | Commercial fruit production | | | | | | | | | | |
| 1.c. | Commercial vegetable production | | | | | | | | | | |
| 1.d. | Integrated crop management | | | | | | | | | | |
| 1.e. | Organic farming | | | | | | | | | | |
| 1.f. | Others (pl.specify) | | | | | | | | | | |
| 2 | Post harvest technology and value addition | | | | | | | | | | |
| 2.a. | Value addition | | | | | | | | | | |
| 2.b. | Others (pl.specify) | | | | | | | | | | |
| 3. | Livestock and fisheries | | | | | | | | | | |
| 3.a. | Dairy farming | 1 | 34 | 3 | 37 | 20 | - | 20 | 54 | 23 | 77 |
| 3.b. | Composite fish culture | | | | | | | | | | |
| 3.c. | Sheep and goat rearing | | | | | | | | | | |
| 3.d. | Piggery | | | | | | | | | | |
| 3.e. | Poultry farming | | | | | | | | | | |
| 3.f. | Others (pl.specify) | | | | | | | | | | |
| 4. | Income generation activities | | | | | | | | | | |
| 4.a. | Vermi-composting | | | | | | | | | | |
| 4.b. | Production of bio-agents, bio-pesticides, | | | | | | | | | | |
| | bio-fertilizers etc. | | | | | | | | | | |
| 4.c. | Repair and maintenance of farm machinery & implements | | | | | | | | | | |
| 4.d. | Rural Crafts | | | | | | | | | | |
| 4.e. | Seed production | | | | | | | | | | |
| 4.f. | Sericulture | | | | | | | | | | |
| 4.g. | Mushroom cultivation | | | | | | | | | | |
| 4.h. | Nursery, grafting etc. | | | | | | | | | | |
| 4.i. | Tailoring, stitching, embroidery, dying etc. | | | | | | | | | | |
| 4.j. | Agril. para-workers, para-vet training | | | | | | | | | | |
| 4.k. | Others (pl.specify) | | | | | | | | | | |
| 5 | Agricultural Extension | | | | | | | | | | |
| 5.a. | Capacity building and group dynamics | | | | | | | | | | |
| 5.b. | Others (pl.specify) | | | | | | | | | | |
| | Coconut palm climbing – skill development training | 5 | 63 | 10 | 73 | 21 | 6 | 27 | 84 | 16 | 100 |
| | Grand Total | 6 | 97 | 13 | 110 | 41 | 6 | 47 | 138 | 39 | 177 |

PART VIII – EXTENSION ACTIVITIES

Extension Programmes (including extension activities undertaken in FLD programmes)

| Nature of Extension | No. of Programmes | No. of | Participants (0 | General) | No | . of Participa SC / ST | ants | No.of extension personnel | | | |
|--|-------------------|--------|-----------------|----------|------|---------------------------|-------|---------------------------|--------|-------|--|
| Programme | | Male | Female | Total | Male | Female | Total | Male | Female | Total | |
| Field Day | 10 | 272 | 88 | 360 | 121 | 34 | 155 | 3 | 1 | 4 | |
| Kisan Mela | 3 | | | | | | | | | | |
| Kisan Ghosthi | 1 | | | | | | | | | | |
| Exhibition | 3 | 470 | | | | | | | | | |
| Film Show | 13 | 288 | 120 | 408 | 155 | 55 | 210 | | | | |
| Method Demonstrations | 4 | 62 | | | | | | | | | |
| Farmers Seminar | 2 | 217 | | | | | | | | | |
| Workshop | | | | | | | | | | | |
| Group meetings | 3 | 45 | - | 45 | 14 | - | 14 | | | | |
| Lectures delivered as resource persons | 68 | 3782 | 2198 | 5980 | 1397 | 963 | 2360 | 175 | 80 | 255 | |
| Newspaper coverage | 78 | | | | | | | | | | |
| Radio talks | 8 | | | | | | | | | | |
| TV talks | 5 | | | | | | | | | | |
| Popular articles | 4 | | | | | | | | | | |
| Extension Literature | 12 | | | | | | | | | | |
| Advisory Services | 81 | 302 | 25 | 327 | 157 | 18 | 175 | | | | |
| Scientific visit to farmers field | 72 | 304 | | | | | | | | | |
| Farmers visit to KVK | 227 | 249 | | | | | | | | | |
| Diagnostic visits | 10 | 83 | 16 | 99 | 16 | 4 | 20 | 24 | - | 24 | |

| Nature of Extension | No. of Programmes | No. of F | Participants (| General) | No | . of Participa SC / ST | nts | No.of extension personnel | | | |
|--|-------------------|----------|----------------|----------|------|---------------------------|-------|---------------------------|--------|-------|--|
| Programme | 5 | Male | Female | Total | Male | Female | Total | Male | Female | Total | |
| Exposure visits | 4 | 128 | 10 | 138 | 56 | 6 | 62 | 4 | - | 4 | |
| Ex-trainees Sammelan | | | | | | | | | | | |
| Soil health Camp | | | | | | | | | | | |
| Animal Health Camp | | | | | | | | | | | |
| Agri mobile clinic | | | | | | | | | | | |
| Soil test campaigns | | | | | | | | | | | |
| Farm Science Club Conveners meet | | | | | | | | | | | |
| Self Help Group Conveners meetings | | | | | | | | | | | |
| Mahila Mandals Conveners meetings | | | | | | | | | | | |
| Celebration of important days (specify) | | | | | | | | | | | |
| Parthenium Awareness Week | 1 | 40 | 30 | 70 | 20 | 14 | 34 | | | | |
| World Food Day | 1 | 121 | 84 | 205 | 54 | 41 | 95 | | | | |
| Women in Agriculture Day | 1 | | 55 | 55 | | 12 | 12 | | | | |
| Kisan Day | 1 | 70 | 10 | 80 | 20 | 4 | 24 | | | | |
| Technology Week-2013 | 1 | 312 | 190 | 502 | 122 | 76 | 198 | | | | |
| Any Other (Specify) | | | | | | | | | | | |
| Foot and Mouth Disease awareness campaign | 2 | 19 | 40 | 59 | 11 | 22 | 33 | 2 | | 2 | |
| SMS Messages | 10 | 6356 | 630 | 6986 | 1210 | 120 | 1330 | 30 | 10 | 40 | |
| Total | 625 | 12934 | 3482 | 15115 | 3296 | 1356 | 4653 | 238 | 91 | 329 | |

<u>PART IX – PRODUCTION OF SEED, PLANT AND</u> <u>LIVESTOCK MATERIALS</u>

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) | Ragi | ML-365, GPU-45, GPU-48 | - | 12.50 | 28750.00 | 135 |
| Oilseeds | Groundnut | GPBD-4, TMV-2 | - | 8.98 | 79920.00 | 32 |
| Pulses | Redgram | BRG-1 | - | 1.90 | 9500.00 | 38 |
| Commercial crops | | | | | | |
| Vegetables | | | | | | |
| Flower crops | | | | | | |
| Spices | | | | | | |
| | Sorghum | COFS-29 | - | 0.06 | 180.00 | - |
| Fodder crop seeds | Cowpea | KBC-2 | - | 0.08 | 720.00 | - |
| | Maize | Southafrican tall | - | 0.05 | 250.00 | - |
| Fiber crops | | | | | | |
| Forest Species | | | | | | |
| Others (specify) | | | | | | |
| Total | | | | 23.57.00 | 119320.00 | 205 |

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 | Drumstick | PKM-1, Bhagya | | 29413 | 294130 | 52 |
| seedlings | Tomato | - | JK seeds | 3506 | 706 | 25 |
| Fruits | Papaya | | Red Lady | 23308 | 279691 | 59 |
| | Lime | Seedling origin | | 93 | 930 | 28 |
| | Mango | Alphanso | | 2 | 80 | 1 |
| Ornamental plants | | | | | | |
| Medicinal and | | | | | | |
| Aromatic | | | | | | |
| Plantation | | | | | | |
| Spices | Curry leaf | Suvasini | | 904 | 9040 | 62 |
| Tuber | | | | | | |
| Fodder crop | | | | | | |
| saplings | | | | | | |
| Forest Species | | | | | | |
| Others(specify) | | | | | | |
| Flower | Chrysanthemum | Dundi | | 237 | 2370 | 25 |
| TOTAL | | | | 57463 | 586947 | 252 |

9.C. Production of Bio-Products : NIL

9.D. Production of livestock materials: NIL

PART X – PUBLICATION, SUCCESS STORY, SWTL, TECHNOLOGY WEEK AND DROUGHT MITIGATION

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

(A) KVK News Letter (Date of start, Periodicity, number of copies distributed etc.) : **December, - 2006, Quarterly – 1000**

| Item | Title | Authors name | Number |
|------------------------|--|---|---|
| Research papers | | | |
| Technical reports | Monthly Progress Report Quarterly Progress Report ZREP Report EPCB Report EEC Report Citizen's-Client's Charter Report Information on Agricultural Ecological Situation Significant Achievements Annual Progress Report Action Plan | B.C.Hanumanthaswamy, Basavaraj Beerannavar, B.C.Dhananjaya, Ashok M., Nagarajappa Adivappar, T.M.Soumya, Nagaraja R. P.R.Somashekharappa | 12 4 1 1 12 12 12 12 12 1 1 |
| News letters | 'Spandana' – Quarterly farmers' news letter | B.C.Hanumanthaswamy, Basavaraj Beerannavar, B.C.Dhananjaya, Ashok M., Nagarajappa Adivappar, T.M.Soumya, Nagaraja R. P.R.Somashekharappa | 4 |
| Technical bulletins | Production technologies of Pepper | Nagarajappa Adivappar, B.C.Hanumanthaswamy, K.R. Shreenivasa T.H.Gowda | 500 |
| | Improved production technologies of Papaya | Nagarajappa Adivappar, B.C.Hanumanthaswamy, K.R. Shreenivasa Basavaraja Beerannavar | 500 |
| | Protection of plant varieties and farmers right Act-2001 | Basavaraja Beerannavar B.C.Hanumanthaswamy Nagaraja R. | 1000 |
| Popular articles | Abaleya Sabaleekaranakkiruva preranegalu. Siri Samrudhi, February, 2014, P. 20-23 | T.M. Soumya Ashok, M. B.C. Dhananjaya | |
| | Keetanashakagala surakshita balake – 2014. Bala Vignana, 36 (3) : 13-16 | B.C. Hanumanthaswamy Nagarajappa Adivappar\ | |
| | Savayava Krishiyalli jyvika keeta nashakagala balake-2014. Bala Vignana, 36 (5) : 21-25 | B.C. Hanumanthaswamy Nagarajappa Adivappar | |
| | Sanna rythana dodda sadhane -2013. Krishi Munnade, 26 (12) : 37 | Nagarajappa Adivappar B.C. Hanumanthaswamy | |

(B) Literature developed / published

| | Kosina vajra bennina pathanada B.C. Hanumanthaswamy | | | | |
|-------------------------|--|--|--|--|--|
| | (3) : 23 | | | | |
| Extension literature | | | | | |
| Others (Pl. Specify) | | | | | |
| Abstracts | . Nagarajappa Adivappar, Hanumantaswamy, B.C. and Sunil, C., 201 Importance of Weather Based Crop Insurance (WBCIS) in Cashew. I National Symposium on Cashew, 29-30 th October, pp. 33. | | | | |
| | Hanumanthaswamy, B.C. and Nagarajappa Adivappar., 2013, Bio- efficacy of <i>Bacillus thuringiensis</i> against Greater Wax Moth, <i>Galleria</i> <i>mellonella</i> . In : National Conference on Biotechnology in Healthcare Bench Co Bedside, 27 & 28 th September, pp. 42. | | | | |
| | Hanumantaswamy, B.C. and Nagarajappa Adivappar., 2013, Adoption of Eco-Friendly Pest Management Practices in Tomato. In : National Conference on Biotechnology in Healthcare Bench Co Bedside, 27 & 28 th September, pp. 43. | | | | |
| | Nagarajappa Adivappar and Hanumantaswamy, B.C., 2013, Genetically Modified Crops : Role in Ameliorating the Food Scarcity. In : National Conference on Biotechnology in Healthcare Bench Co Bedside, 27 & 28 th September, pp. 44. | | | | |
| | Hanumanthaswamy, B.C., Shreenivasa, K.R. and Nagarajappa Adivappar., 2013, Management of root grub in arecanut gardens. In : 10th National Symposium on Soil Biology and Ecology – Soil Biota and Social Insects for Sustainable Agriculture, 19-21st December, pp. 154. | | | | |
| | Shreenivasa, K.R., Hanumanthaswamy, B.C. and Rekha, D., 2013, Management of heart rot disease in pineapple. In : 10th National Symposium on Soil Biology and Ecology – Soil Biota and Social Insects for Sustainable Agriculture, 19-21st December, pp. 154. | | | | |
| | Hanumanthaswamy, B.C., Nagarajappa Adivappar and Shreenivasa, K.R, 2013, Diversity and foraging activity of honey bee pollinators on sunflower. In : 10th National Symposium on Soil Biology and Ecology – Soil Biota and Social Insects for Sustainable Agriculture, 19-21st December. pp. 161. | | | | |
| | 8. Hanumanthaswamy, B.C., Nagarajappa Adivappar and Shreenivasa, K.R., 2013, Integrated Management of Chilli Fruit Borer. In: National Conference on Spice – Recent Advances and Future Strategies, 19-21 st December, pp. 66. | | | | |
| | Hanumanthaswamy, B.C., Shreenivasa, K.R. and Nagarajappa Adivappar., 2013, Management of Ginger Shoot Borer. In: National Conference on Spice – Recent Advances and Future Strategies, 19-21st December, pp. 84. | | | | |
| | Nagarajappa Adivappar, Hanumanthaswamy, B.C. and Rudragowda, 2013, Problems and Prospects of Ginger and Turmeric Cultivation- Farmers Experience. In: National Conference on Spice – Recent Advances and Future Strategies, 19-21st December. pp, 35. | | | | |
| | 11. Nagarajappa Adivappar, Hanumanthaswamy, B.C., Shreenivasa, K.R. and Veeranna, H.K. 2013, Impact of Extension Activities in Improving the Production and Productivity of Spices. In: National Conference on Spice – Recent Advances and Future Strategies, 19-21 st December, pp. 72. | | | | |

| | 12. Shreenivasa, K.R, Hanumant Nagarajappa Adavappar, 2013, Rhizome Rot Menace in Shimo Conference on Spice – Recent A December, pp. 53. | haswamy, B.C., Rekha, D., and Efforts of KVK in Addressing Ginger ga District of Karnataka. In: National dvances and Future Strategies, 19-21 st | | | |
|-----------------------|---|--|--|--|--|
| | Rekha, D., Nagaraju, Shreenivasa, K.R. and Hanumanthaswamy, B.C., 2013, Status of Ginger Rhizome Rot Disease in Malnad Districts of Karnataka. In: National Conference on Spice – Recent Advances and Future Strategies, 19-21st December, pp. 58. | | | | |
| | 14. Basavaraju, B.S., Hanumanthasy A.K. and Tyagaraj, N.E. 2013, E modules in potato crops. In: New February, pp. 22. | Basavaraju, B.S., Hanumanthaswamy, B.C., Rani, A.T., Chakravarthy, A.K. and Tyagaraj, N.E. 2013, Evaluation of insect pest management modules in potato crops. In: New Horizons in Insect Sciences, 14-17 th February, pp. 22. | | | |
| | Hanumanthaswamy, B.C., Rajagopal, D. and Basavaraju, B.S. 2013, Effect of different species of honey bee combs on the development of greater wax moth <i>Galleria mellonella</i> (Pyralidae : Lepidoptera). In: New Horizons in Insect Sciences, 14-17th February, pp. 60. | | | | |
| | 16. Hanumanthaswamy, B.C., Rajag Influence of temperature and Greater wax moth <i>Galleria mello</i> Horizons in Insect Sciences, 14-1 | Hanumanthaswamy, B.C., Rajagopal, D. and Basavaraju, B.S. 2013, Influence of temperature and relative humidity on development of Greater wax moth <i>Galleria mellonella</i> (Pyralidae:Lepidoptera). In: New Horizons in Insect Sciences, 14-17 th February, pp. 63. | | | |
| | 17. Hanumanthaswamy, B.C., Rajagopal, D. and Basavaraju, B.S. 2013, Bionomics of Greater wax moth <i>Galleria mellonella</i> (Pyralidae:Lepidoptera) on Bee comb of different parts. In: New Horizons in Insect Sciences, 14-17 th February, pp. 63. | | | | |
| | Basavaraju, B.S., Chakravarthy Thyagaraj, N.E. 2013, Populat <i>Phthorimaea operculella</i> zeller or Karnataka In: New Horizons in 82. | Basavaraju, B.S., Chakravarthy, A.K. Hanumanthaswamy, B.C. an Thyagaraj, N.E. 2013, Population dynamics of potato tuber moth <i>Phthorimaea operculella</i> zeller on potato in southern transitional zone of Karnataka In: New Horizons in Insect Sciences, 14-17th February, pp 82. | | | |
| | Training manual on Coconut palm climbing | B.C. Hanumanthaswamy Basavaraj Beerannavar Nagaraj, R. | | | |
| Training manual | Organic Farming | Shivalingaiah B.C.Hanumanthaswamy Basavaraj Beerannavar B.C. Dhananjaya | | | |
| Chapters in manual | Saavayava Krishiyalli poshakamshagala nirvahane. Training manual on Organic farming for the extension functionaries from 15-16 November, 2013 at KVK, Shimoga, p. 6-13. | T.M. Soumya L.B. Ashok | | | |
| | Saavayava krishiyalli pashusangopaneya mahathva. Training manual on Organic farming for the extension functionaries from 15-16 November, 2013 at KVK, Shimoga, p. 47-49. | Ashok, M. T.M. Soumya B.C. Dhananjaya | | | |
| | Organic farming practices in vegetable production. Training manual on Organic farming for the extension functionaries from 15-16 November, 2013 at KVK, Shimoga, p. 22-26 | Nagarajappa Adivappar | | | |

| | Saavayava krishiyalli drava roopada gobbaragala balake. Training manual on Organic farming for the extension functionaries from 15-16 November, 2013 at KVK, Shimoga, p. 50-56. | T.M. Soumya B.C. Dhananjaya P.R. Somashekharappa | |
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| | nirvahane. Training manual on Organic farming for the extension functionaries from 15-16 November, 2013 at KVK, Shimoga, p. 22-26. | Hanumantnaswamy, B.C. | |
| | Thengu beleya pramuka keeta hagu rogagalu mathu avugala samgra hathoti, Training manual on IPM practices and Bio-pesticides in major crops of control areas for the extension functionary from 16-17 th September, 2013, p. 20-29. | B.C. Hanumanthaswamy Jayalaxmi Hegde K.R. Shreenivasa | |
| | Adike beleyannu badisuva pramuka keetagalu mattu rogagalu hagu avugala samgra nirvahane, Training manual on IPM practices and Bio-pesticides in major crops of control areas for the extension functionary from 16-17 th September, 2013, p. 30. | Jayalaxmi Hegde B.C. Hanumanthaswamy Chaitanya, H.S | |
| Folder | Important Pest and Disease Management in Maize-2013 | B.C.Hanumanthaswamy, K.R. Shreenivasa Basavaraja Beerannavar Nagaraja R | 1000 |
| | Bee keeping-2013 | B.C.Hanumanthaswamy, Nagarajappa Adivappar, Basavaraja Beerannavar Nagaraja R. | 1000 |
| | Perennial vegetable crop Drumstick – 2013 | Nagarjappa Adivappar B.C. Hanumanthswamy Nagaraj, R. | 1000 |
| | Jenu nonagala shatrugalu mattu hvugala nirvahane -2013 | B.C. Hanumanthswamy K.R. Shreenivasa Basavaraj Beerannavar Nagaraj, R. | 1000 |
| | Samagra Krishi Paddati -2013 | Basavaraj Beerannavar B.C. Hanumanthswamy Nagaraj, R | 1000 |
| | Bale beleyalli sasya samrakshane – 2013 | K.R. Shreenivasa B.C. Hanumanthaswamy Nagarajappa Adivappar | 1000 |
| | Kalubayi jwara – 2014 | Ashok, M. | 1000 |
| | Bhattdalli kandujigi huluvina bhade mattu nirvahane -2014 | T.H. Gowda B.C. Hanumanthaswamy M.S. Ganeshbabu K.R. Shreenivasa | 1000 |
| | Benki rogada lakshanagalu hagu nirvahane kramagalu-2014 | T.H. Gowda K.R. Shreenivasa M.S. Ganeshbabu B.C. Hanumanthaswamy | 1000 |
| | Hesaru bele paddathige sooktha bele- 2014 | T.M. Soumya B.C. Dhananjaya B.C. Hanumanthaswamy T.H. Gowda | 1000 |
| TOTAL | | | 12079 |

10.B. Details of Electronic Media Produced : NIL

10.C. Success Stories / Case studies.

1. Success Story of KVK Nursery

Under National Horticulture Mission (NHM) in 2008-09 Model Horticulture Nursery has been sanctioned to KVK, Shimoga. In this project different propagating structures *viz.,* mist chamber, poly house and shed nets were constructed. The main objective of the project is to produce elite horticultural planting material for the needy farmers of the district. KVK, Shimoga has taken initiative in production of different horticultural plants viz., mango, sapota, papaya, drumstick, vegetable seedlings, curry leaf and flowering plants. Among these different seedlings / grafts, production of papaya and drumstick seedlings is note worthy.

For successful horticulture crop production, supply of elite planting material and training to growers is very essential. In this regard, from 2010-11 to 2013-14 KVK conducted 08 training programmes on topics related to "Improved production technologies of papaya and drumstick". During the training programmes 321 farmers/farm women / rural youth were trained. By realizing the immense scope and potentiality of growing papaya and drumstick as a sole / intercrop farmers purchased quality planting material from KVK, Shimoga. Totally, 35,400 drumstick (PKM-1 & Bhagya) seedlings of worth Rs. 3,54,000/- were sold to 66 farmers by covering an area of 52 ha as sole crop or intercrop in younger arecanut gardens. Similarly, 47,785 papaya seedlings (Arka Surya and Taiwan-786) of worth Rs.5,603,50/- were sold to 97 farmers by covering in area of 40 ha as intercrop in younger areanut gardens. By growing papaya and drumstick as intercrops farmers have obtained Rs. 1,80,000/- and Rs. 1,50,000/per ha respectively as a additional income in arecanut apart from protecting younger arecanut plants from scorching sun, reducing weed menace and creating better micro climate for areca growth. Due to concerted efforts of KVK intercropping of papaya and drumstick in younger areca gardens has spread to more than 500 ha in the district with an additional income of Rs. 7.5 to 9.0 crores.

2. Upliftment of farm families through Integrated Farming System Demonstration project by KVK.

Introduction : Historically, India's crop production scenario has been dominated by food grains more especially cereals. The country has registered a declining trend in crop and livestock production and per head food production, while maintaining increase in cereal productivity over the past decade. Sustainable development in agriculture must include integrated farming systems with efficient soil, water, crop and pest management practices, which are environmentally sound, economically viable and socially acceptable. The future agricultural system should reorient from the single commodity system to food diversification approach for sustaining food production and income generation. Integrating crops and cropping systems, horticulture, livestock, sericulture, agro-forestry, aguaculture, etc., therefore, assume greater importance for conserving and recycling of farm resources to enhance farm productivity, which will reduce environmental degradation and maintain agricultural sustainability by providing nutritional and livelihood security. Realizing the importance of integrated farming system, Government of Karnataka under RKVY project supported financial assistance for implementing the IFSD project through Agricultural Universities. University of Agricultural Sciences, Bangalore has initiated integrated farming system through 12 KVKs, 3 EEUs and FTI, GKVK with the involvement of Scientists / Teachers working at ZARS / ARS and Colleges coming under different agro-climatic zones. KVK, Shimoga is one of the implementing centre under UAS, Bangalore.

Need for IFS : A large gap exist between potential, on-farm and farmers yields of post crop varieties developed during the green revolution. FARMSCAPE (Farmers, Advisors, Researchers, Monitoring, Communication and Performance Evaluation) of programme of participatory transfer of technology with the farming community could be successful in translating technological development on the farmers' fields. Improving the productivity of the whole farm is of larger concern today than ever before for the reason of Total Factor Productivity (TFP). Although, the overall production of food grains and milk are the highest, the per hectare productivity is low. Thus, augmenting production through efficient management of natural resources, human resources through IFS approach would meet the present requirement of livelihood security and farm profitability.

Objectives

- To attain sustainable improvement in productivity and income by adopting IFS model.
- To ensure livelihood security of farm families and landless labourers in the project area.

Location : The programme was implemented in Konagavalli Gramapanchayath of Shimoga Taluk. Total of 10 villages (1515 farm families) comprising 1058 agriculturists and 457 landless agricultural laborers were covered under the project.

Duration : The project was initiated in the year 2011-12. The total duration of project is three years.

Activities carried out under IFSD project.

- Orientation about IFSD schedule to the data collecting volunteers.
- Collected bench mark information of IFSD villages (1515 families)
- Orientation on the PRA techniques to all the implementing staff of the project.
- Analysis of the collected data through outsourcing.
- Capacity building of farmers / farm women through various trainings, demonstrations and exposure visits.
- Distribution of critical inputs to the farmers as per their needs.
- Conduct of field days before harvest of the demonstration plot.
- Selection of model stake holders for showcasing / impact analysis
- Formation and strengthening of the commodity based association / agro service centres.

Critical inputs supplied

I. Crop Component

- 1) Cereals Paddy, Ragi, Maize
- 2) Pulses Black gram, Redgram, Green gram
- 3) Oil seeds Groundnut

II. Horticulture component

1) Planting materials : Drumstick, papaya, mango, Coconut, sapota, curry leaf, lime.

III. Animal component

- 1) Sheep (Bandur cross breed),
- 2) Poultry birds Giriraja, Swarnadhara
- 3) Mineral mixture, feed additives and deworming agents

IV. Other components

- 1) Micro nutrients Zinc sulphate, gypsum, Boron
- 2) Bio-Fertilizers
- 3) Foliar sprays
- 4) Mobile vermicompost unit with earthworms
- 5) Plant protection chemicals
- 6) Small Agricultural equipments

V. Initiation of Commodity Based Associations (CBAs) / Agro Service Centres (ASCs) :

In order to provide inputs at desired level and also interlink the sale of produce two CBAs/ ASCs were started in two villages of the project area. Each CBA is having 15 members and the members contributed Rs.1.00 lakh. Seed money of Rs. 1.00 is contributed from the project to each of the CBA.

Impact of the IFSD project

- 1) Seed replacement with improved varieties of crops
- 2) Increase in yield of crops (8-10 %) due to use of supplied critical inputs
- Improvement in soil health by use of micronutrients, bio-fertilizers and organic fertilizers (Vermi Compost)
- 4) Improvement in long term assets of farming communities through Horticulture plant seedlings.
- 5) Additional income to the landless labourers and small farmers through rearing of sheep and poultry birds.
- 6) Increase in knowledge, skill development through capacity building programmes and exposure visits.

3. Integrated management of Rhizome borne diseases in banana- a CASE STUDY

Background : Banana is one of the important fruit crop of Shimoga District. Which is cultivated in an area of 5305 ha. with a production of 125750 tons during 2008-09. This crop is either grown as a sole crop is a mixed crop under younger arecanut gardens are even in older gardens under traditional farming. The planting material used for banana planting by 80% of the farmers in the District are the suckers / rhizomes obtained by nearby gardens or from any sources. The major constrains for banana cultivation is the diseases and the pest which are either sucker / rhizome borne or from soil viz., the panama disease, burrowing nematode, bunchy top disease, root knot nematode while pest like rhizome weevil / pseudo stem weevil.

It is evident from the past history that the ancient and most tasty banana cultivar Nanjanagood Rasabale which was devastated because of the Rhizome borne disease complex. In order to over cum the rhizome borne disease complex management the tissue culture banana were developed but these cultivars are available only for either robusta / Grand-9 cultivars but 60% of the banana growers and consumers prefer either Rasabale or Yelakki bale, but there no tissue culture materials available as on now on commercial basis however the trials under pipeline.

Interventions : In order to manage this problem an holistic approach of managing these diseases and pest problem were addressed by conducting Front line demonstration in 10 farmers field during 2008-09 and 2009-10 by Krishi Vigyan Kendra Shimoga in major banana

growing areas of the district. The technology was demonstrated through method demonstration, training both on and off campus programmes and other extension activities to spread the technology.

Process /Technology : The technology demonstrated was selection of disease free planting material, opening of banana pits before one month of planting, soil application of Trichoderma enriched FYM/compost, application of 500 gram neemcake per plant, paring and pralinage of sucker, Dipping of the pared suckers in 0.2% Carbendazim and application of 20 gram Carbofuran granules per plant during planting.

Impact

Horizontal Spread : After the successful conduct of the front line demonstration in 10 farmers' field during 2008-09 the farmers could harvest 28.5 t /ha fruit yield in demonstrated plot with a BC ratio of 1:3.01 besides reduction in rhizome borne disease incidence of 23. % and 10% sigatoka severity, compared to farmer practice where they could harvest 19.5 t/ha fruit yield with BC ratio 1:1.84 but rhizome borne disease incidence was 52% and 22% sigatoka severity. Further, the famers could able to raise the ration crop in the next with less disease incidence and good harvest.

Similarly 10 more FLD were conducted during 2009-10 in other farmers field to further spread the technology in the district .As a result of successful conduct of the FLD the banana growers in the district could able to manage this problem one such farmer who adapted this technology and harnessed the result is Sri Ranganath, Sominakoppa village of Shimoga taluk. Now the technology is being spread to other farmers by following different extension methodologies by involving department of horticulture and other agencies

Economic gains : The banana growers in the District could able to reduce the cost of plant protection upto Rs.5000/- per ha. besides the cost on the management of the disease in ration crop too.

The suckers grown by the crop are free from the disease so that the next crop could be saved.

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

Up scaling innovative practice in paddy cultivation

Paddy is one of the important food crops grown in Melinahanasavadi village of Shimoga taluk in Tunga command area. The farmers in these villages have been following time tested methods of growing crops to accomplish the challenging task of feeding themselves. Paddy is the major crop occupying 90% of the total cultivable area in the village. Farmers have been facing problems like high incidence of pests and diseases, high cost of cultivation, scarcity of labourers and limited labour available are also to be paid higher wages as this villages are located nearer to Shimoga city (5 kms). Resulting in poor yield and lesser marginal returns to the farmers. They were however living with these problems and not knowing how to address them. KVK, Shimoga was very keen to address this issue by promoting a integrated crop mg practices in paddy by using lesser resources. **The beginning** KVK conducted baseline survey

in these villages, Gramsabhas were conducted in each village, followed by PRA for understanding village situation and identifying the problems jointly with communities. KVK identified large scope for improvement in paddy farming and initiated good agricultural practices through a structured capacity building process with groups of farmers. KVK has a firm conviction that, farmers capacity building through participatory approaches is the most effective way to address problems in farming. It is necessary to widen the farmers' perception, deepen their insights, modify their attitudes and upgrade their management abilities. For this purpose, KVK has been effectively using. Farmer Field School (FFS) as a methodology of building capacities of farmers. Farmer interest group (Volunteers) with 30 interested farmers in this village was formed in the beginning. Season long FFS was organized in the village during the cropping season from May to November, 2010. Group members were very enthusiastic to learn about scientific paddy cultivation by discovering learning process in FFS made. In different sessions, group members were involved in different short studies, which made them to learn by doing and experiencing. In each session groups actively participated and conducted different short studies as listed below which made them confident. Learning process Group of paddy farmer (30) will learn about IPM approaches from seed to crop harvest. FFS conducted in Melinahanasavadi village of Shimoga District. Small sub groups take IPM practices conduct RRA, take observations and analyze the incidence of pest and disease. The priority activities focused in FFS includes; Summer deep ploughing and importance of green leaf manuring Selection of healthy and disease free seeds and seed treatment practices. Maintenance of soil fertility by use of balanced nutrients for management of pest and diseases. Method demonstration on mat nursery beds and nursery diseases, Method demonstration on machine transplanting of paddy seedlings, Role of weeds and clean sanitation measures for control of pest and disease, Preparation of nursery beds and nursery diseases, Better water management practices, Demonstration on identification nutrient deficiency and pest & disease symptoms, Role of botanicals and traps for IPM and plant protection chemicals safe use, dosage and time of application, Harvest and post harvest losses and their management

During the end of FFS 30 farmers, involved in this FFS appreciated this innovative method of rice cultivation Significant changes were observed, such as 42% labour saving with respect to transplanting reduction in seed rate 30-35 kg/ha as compared to 60-65 kg/ha in their traditional practice and maintaining adequate plant population as per recommendation, transplanting of 18 days old seedlings raised on mat nursery through machine transplanter and use of Cono Rotary Weeder for effective weed control and root aeration. Substantial increase in the number of tillers/m2 (456/m2) with lesser or no incidence of BPH (6%) which otherwise was a major problem (32%) prevailed during previous season. Which was also due to balanced dose of fertilizer application as indiscriminate use of chemical fertilizer was also one of the reasons for severe occurrence of BPH during last season. Finally yields were enhanced by 16% (65 q/ha as against 56 q/ha compared to farmer practice). Higher yield is attributed to significant increase in number of tillers (26% higher) more particularly the productive tillers.

The FFS has played a critical role in motivating farmers to adopt ICM practices in paddy in a short time. Moreover, it has enhanced the experimenting capacity of farmers leading to innovations. With good results in the very first season ICM practice in paddy has shown the potential for wider spread in the region. **Scaling up of FFS** For wider scaling, meetings and field days were organized. The results of the efforts made were discussed during these events.
Farmers from the region participated and got to know the good impacts of following ICM practices in paddy.

Through the events helped in building awareness among a large no of farmers about this practice but, yet it did not help in making them practice. Machine transplanting being a new method of paddy cultivation farmers were very confident of practicing it as they learnt all the skills involved with respect to different operations. Only bottle neck was with respect to cost of machine transplantor. A planned effort and continuous support was therefore required to motivate farmers to follow this innovative practice. In summer season of 2011, KVK, Shimoga with the support of NFSM programme for paddy crop operated by Department of Agriculture planned a scaling up strategy to reach 500 farmers (215 acre). Spread across 15 villages. This programme aimed at sensitizing not only the farmers but also all the other promoters and supporters of ICM practices in the district. Wherein with the support from Department of Agriculture, farmers' interest group of Melinahanasavadi village was sanctioned with one machine transplanter and one SHG of that village has come forward for raising and supply of mat nursery needed for the entire village.

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

- 10.F. Indicate the specific training need analysis tools/methodology followed for
 - Identification of courses for farmers/farm women
 - Rural Youth
 - Inservice personnel
- Training courses decided based on the feedback from the field extension workers of agriculture / Horticulture / animal husbandry / NGOs and allied departments during bimonthly workshop / meetings and also based on the feedback collected during the field visit by KVK scientists.
- 2. Based on the suggestions by Scientific Advisory Committee members
- 3. Based on Ex-trainees' suggestions
- 4. Based on the SWOT / thrust areas identified during action plan preparation

10.G. Field activities

| i. | Number of villages adopted | : 14 |
|------|-------------------------------|--------|
| ii. | No. of farm families selected | : 1400 |
| iii. | No. of survey/PRA conducted | : 14 |

10.H. Activities of Soil and Water Testing Laboratory

| 1. | Status of establishment of Lab | : Good |
|----|--------------------------------|--------|
| ~ | Manual astablishing and | |

| SI. No | Name of the Equipment | Qty. | Cost |
|-----------|--------------------------------------|-------|----------|
| 1 | pH Meter | 1 No. | 8,550 |
| 2 | Conductivity meter | 1 No. | 7,400 |
| 3 | Physical balance (KROY) | 1 No. | 12,000 |
| 4 | Chemical balance (Shimadzu) | 1 No. | 48,900 |
| 5 | Water distillation still | 1 No. | 48,850 |
| 6 | Shaker | 1 No. | 27,600 |
| 7 | Hot air oven | 1 No. | 20,000 |
| 8 | Magnetic stirrer with hot plate | 1 No. | 5,500 |
| 9 | Spectrophotometer | 1 No. | 42,000 |
| 10 | Flame photometer | 1 No. | 35,200 |
| 11 | Macro digestion system | 1 No. | 52,118 |
| 12 | Automatic distillation system | 1 No. | 85,232 |
| 13 | Electronic Acid neutralizer scrubber | 1 No. | 23,909 |
| 14 | Hot plate Rectangular | 1 No. | 9,600 |
| 15 | Ind. & Comml. | 1 No. | 26,400 |
| 16 | F & P Fume cupboard | 1 No. | 41,625 |
| 17 | FRP ducting with FRP blower | 1 No. | 18,000 |
| 18 | Refrigerator | 1 No. | 18,133 |
| 19 | Khaitan Heavy duty fan | 1 No. | 3,777 |
| 20 | Flame Burner | 1 No. | 1,146 |
| 21 | Digital Micro pipette set | 1 No. | 21,180 |
| 22 | pH Meter | 1 No. | 6,600 |
| 22 | Chemicals | | 30,055 |
| 23 | Glassware | | 1,35,417 |

.

3. List of equipments purchased with amount

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 | 2680 | 652 652 | | 83400.00 |
| Water Samples | 384 | | | 23960.00 |
| Plant samples | - | - | - | - |
| Manure samples | 68 | 19 | 19 | 7950.00 |
| Lime | 05 | 03 | 03 | 500.00 |
| Total | 3137 | 674 | 674 | 115810.00 |

Details of samples analyzed during the 2013-14 :

| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages | Amount realized (Rs.) |
|------------------|----------------------------|-----------------------------|-----------------|--------------------------|
| Soil Samples | 451 | 186 | 186 186 | |
| Water Samples | 155 | | | 9300.00 |
| Plant samples | - | - | - | - |
| Manure samples | 08 | 03 | 03 | 960.00 |
| Others (specify) | 01 | 01 | 01 | 100.00 |
| Total | 615 | 190 | 190 | 23890.00 |

10.I. Technology Week celebration during 2013-14 : YES

| Period of observing Technology Week | : | From 24-09-2013 to 28-09-2013 |
|---|-------|-------------------------------|
| Total number of farmers visited | : | 700 |
| Total number of agencies involved | : | 7 |
| Number of demonstrations visited by the | farme | ers within KV/K campus · 32 |

Number of demonstrations visited by the farmers within KVK campus : 32

Other Details

| Types of Activities | No. of Activities | Number of Earmers | Related crop/livestock technology |
|------------------------------------|----------------------|----------------------|---|
| Gosthies | - | - | - |
| Lectures | 40 | | Paddy, maize, groundnut, cotton, arecanut, |
| organized | 10 | 700 | ginger, Turmeric, flower crops, dairy, poultry, value |
| Exhibition | 1 | 700 | addition, marketing |
| Film show | 5 | | |
| Fair | | | |
| Farm Visit | 5 | 700 | Maize, Hebbal Avare, chilli, Cotton, groundnut, ragi, papaya, drumstick, bird of paradise, cowpea, redgram, CO3 fodder crop, poultry incubator, farm machineries, implements, sprayers, green gram, black gram, French bean, brinjal, China aster |
| Diagnostic Practical's | 2 | 700 | Soil and water testing laboratory, Disease diagnostic lab. |
| Supply of Literature (No.) | 4 | 700 | |
| Supply of Seed (q) | | | |
| Supply of Planting materials (No.) | | | |
| Bio Product supply (Kg) | | | |
| Bio Fertilizers (q) | | | |
| Supply of fingerlings | | | |
| Supply of | | | |
| Livestock | | | |
| specimen (No.) | | | |
| Total number of | | 700 | |
| technology week | | 700 | |

10.I. Technology Week celebration during 2013-14 : YES

| Period of observing Technology Week | : | From 24-09-2013 to 28-09-2013 |
|---|------|-------------------------------|
| Total number of farmers visited | : | 700 |
| Total number of agencies involved | : | 7 |
| Number of demonstrations visited by the | form | pers within K\/K campus · 32 |

Number of demonstrations visited by the farmers within KVK campus : 32

Other Details

| Types of Activities | No. of Activities | Number of Farmers | Related crop/livestock technology |
|------------------------|----------------------|----------------------|--|
| Gosthies | - | - | - |
| Lectures organized | 10 | | Paddy, maize, groundnut, cotton, arecanut, ginger, Turmeric, flower crops, dairy, poultry, value |
| Exhibition | 1 | 700 | addition, marketing |
| Film show | 5 | | |

| Types of Activities | No. of Activities | Number of Farmers | Related crop/livestock technology |
|---|----------------------|----------------------|---|
| Fair | | | |
| Farm Visit | 5 | 700 | Maize, Hebbal Avare, chilli, Cotton, groundnut, ragi, papaya, drumstick, bird of paradise, cowpea, redgram, CO3 fodder crop, poultry incubator, farm machineries, implements, sprayers, green gram, black gram, French bean, brinjal, China aster |
| Diagnostic Practical's | 2 | 700 | Soil and water testing laboratory, Disease diagnostic lab. |
| Supply of Literature (No.) | 4 | 700 | |
| Supply of Seed (q) | | | |
| Supply of Planting materials (No.) | | | |
| Bio Product supply (Kg) | | | |
| Bio Fertilizers (q) | | | |
| Supply of fingerlings | | | |
| Supply of Livestock | | | |
| specimen (No.) | | | |
| Total number of farmers visited the technology week | | 700 | |

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

- 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 : NIL
- E. Seed distribution in drought hit states : NIL
- F. Large scale adoption of resource conservation technologies : NIL
- G. Awareness campaign : Foot and mouth disease management in livestock

| State | Мее | tings | Gos | thies | F | ⁻ ield lays | Far fa | mers air | Exhi | bition | F | ilm how |
|-----------|-----|------------------|-----|------------------|-----|---------------------------|-----------|------------------|------|------------------|-----|------------------|
| | No. | No.of farmers | No. | No.of farmers | No. | No.of farmers | No. | No.of farmers | No. | No.of farmers | No. | No.of farmers |
| Karnataka | 2 | 94 | | | | | | | | | | |
| | | | | | | | | | | | | |
| TOTAL | 2 | 94 | | | | | | | | | | |

PART XI. IMPACT

11.A. Impact of KVK activities

| Name of specific | No. of | | Change in income (Rs.) | | |
|---|----------------------------|--|------------------------|---|--|
| technology/skill | narticipants % of adoption | | Before | After | |
| transferred | participanto | | (Rs./Unit) | (Rs./Unit) | |
| Coconut Palm | | | Rs. 4500/- | Rs. 12,000/- | |
| climbing by using | 100 | 100 | per month | per month per | |
| climber | | | per person | person | |
| Mushroom production | 80 | 80% of the participants started using mushroom as component in their daily diet. | - | - | |
| | | 20 % of the participants started mushroom production for additional income. | - | Additional income of Rs. 6000 – Rs.7000 per month | |
| Preparation of eco- friendly products from arecanut leafsheath | 60 | 25 % | Rs.1200/- per month | Rs.2000/- per month | |

11.B. Cases of large scale adoption

1) Profitability and productivity enhancement of demonstrating farmers through leaf spot resistant groundnut variety GPBD – 4 for Shimoga district

Shimoga is one of the district in Karnataka where groundnut is being grown both in *kharif* and summer seasons. As the district's groundnut growing area falls under southern transition zone with assured rainfall and prevalence of cloudy weather during cropping season of groundnut is very common. Under such climatic conditions occurrence of leaf spot disease in groundnut variety TMV-2 predominantly (released during 1960) quite obvious which results in substantial yield loss with reference to pod and haulm yield.

Over a period of time, the yields of TMV-2 have been gradually decreasing owing to various reasons *viz.*, non availability of pure seed, loss of genetic vigor in the available seed, small size of pods and kernels and susceptibility to pests and diseases owing to continuous cultivation and its removal from the government subsidy programme.

The programme:

Understanding the need for an improved groundnut variety suitable to Shimoga district, a programme on assessment of groundnut varieties was launched during 2005.

The process

To start with an awareness meeting was held with farmers. Farmers identified constraints in groundnut, production and also ways to mitigate them. Based on the problems and possible solutions it was decided to conduct frontline demonstrations in farmers field with improved variety GPBD - 4 released by UAS, Dharwad during 2005, which is having resistance to leaf spot disease.

Intervention

KVK, Shimoga conducted frontline demonstration on groundnut variety GPBD - 4 during the years 2005-06 to 2013-14 in summer / Kharif seasons involving 79 farmers in 8 years. Totally 79 demonstrations on groundnut crop in an area of 32.8 hectares by involving 79 farmers in all the eight years of demonstration were conducted in 3 taluks of Shimoga district (Soraba, Shikaripura and Shimoga taluks).

Output / results

FLD results showed that GPBD-4 performed consistently better as the average pod yield of 79 demonstrations in an area of 32.8 ha. ranged from 23.55 to 28.94 q/ha. There was 17.60 % increase in pod yield in demonstrated groundnut GPBD - 4 variety which was found economically superior with higher BC ratio of 3.52 against the lower BC ratio of 2.86 in TMV-2. Incidence of leaf spot disease was not noticed in GPBD-4 as compared to severe incidence of 60 % in local check (TMV-2)

Outcome

Field days in all the years in collaboration with Department of Agriculture were conducted for larger spread of this variety. Printed literature was also provided to the needy farmers. Performance of this variety was also published in local print and electronic media. For promoting this better variety across the district, Department of Agriculture took interest in spreading the variety along with Karnataka Oil Federation (KOF).

Following are some of the efforts made to spread the variety

- ✓ Identification of farmers interested in this new variety
- ✓ Supply of foundation seeds by KVK to its contact farmers through IFSD programme
- ✓ Procuring the seeds from farmers and distributing to other farmers through FLD
- ✓ Giving wide publicity through news letter and media

By summer 2013, the variety has spread to 48 villages extending over an area of 1550 acres. It is very appreciable to note the sustained performance of GPBD - 4 groundnut variety even in adverse conditions and the increasing demand for the seed.

| | | | No. of | Area (ha) | Pod Yield | | | | |
|---------|--------------------------------|----------|----------|--------------|-----------|----------|---------|------------------------|--|
| Year | Name of the block / village | Variety | demon | | Demons | stration | Check | % increase in yield | |
| | | | Stration | | Maximum | Average | Average | Average | |
| 2005-06 | Bedarahosally, Shimoga Tq | GPBD - 4 | 12 | 4.80 | 31.80 | 28.94 | 23.38 | 23.78 | |
| 2006-07 | Devikoppa, Soraba Tq. | GPBD - 4 | 12 | 4.80 | 37.50 | 26.25 | 22.25 | 17.97 | |
| 2007-08 | Tumarikoppa, Soraba Tq | GPBD - 4 | 12 | 4.80 | 30.00 | 24.75 | 19.87 | 24.55 | |
| 2008-09 | Mallapura, Soraba Tq. | GPBD - 4 | 12 | 4.80 | 27.50 | 23.55 | 19.37 | 21.57 | |
| 2009-10 | Begur, Shikaripura Tq. | GPBD - 4 | 12 | 4.80 | 29.12 | 26.08 | 22.27 | 17.10 | |
| 2010-11 | Haramghatta, Shimoga Tq. | GPBD - 4 | 7 | 4.00 | 27.25 | 25.57 | 22.76 | 12.35 | |
| 2011-12 | Nimbegondi, Shikaripura Tq. | GPBD - 4 | 7 | 2.80 | 25.00 | 23.39 | 20.86 | 12.13 | |
| 2012-13 | Hirakasavi, Soraba Tq. | GPBD - 4 | 5 | 2.00 | 27.00 | 24.50 | 22.00 | 11.36 | |
| | | Total | 79 | 32.80 | 29.40 | 25.38 | 21.60 | 17.60 | |

 Table 1: Yield performance of groundnut varieties demonstration under FLD programme

 in Shimoga district of Karnataka

Table 2: Cost economics of Groundnut varieties demonstrated under FLD programme in Shimoga district

| | D | emonstrati | on | C | ontrol / che | ck | B:C | C ratio |
|---------|--------------------------|----------------------------|--------------------------|--------------------------|----------------------------|--------------------------|-------------------|---------|
| Years | Total cost (Rs/ha) | Gross return (Rs/ha) | Net income (Rs/ha) | Total cost (Rs/ha) | Gross return (Rs/ha) | Net income (Rs/ha) | Demon stration | Check |
| 2005-06 | 19000 | 54986 | 35986 | 19500 | 44422 | 24922 | 2.89 | 2.27 |
| 2006-07 | 19500 | 52500 | 33000 | 19750 | 44500 | 24750 | 2.69 | 2.25 |
| 2007-08 | 18150 | 53213 | 35062 | 19750 | 42720 | 22970 | 2.93 | 2.16 |
| 2008-09 | 18500 | 58875 | 40375 | 21500 | 48425 | 26925 | 3.14 | 2.21 |
| 2009-10 | 19560 | 69200 | 45700 | 17775 | 55675 | 37900 | 3.34 | 3.13 |
| 2010-11 | 17000 | 56254 | 39254 | 19000 | 50072 | 31072 | 3.30 | 2.63 |
| 2011-12 | 16000 | 81865 | 65865 | 17500 | 73010 | 55510 | 5.12 | 4.17 |
| 2012-13 | 18000 | 85750 | 67750 | 19000 | 77000 | 58000 | 4.76 | 4.05 |
| Total | 18213 | 64080 | 45374 | 19222 | 54478 | 35256 | 3.52 | 2.86 |

2) Use of banana special as a foliar spray for higher yield

Shimoga district is a bestowed with ideal conditions for horticultural crops. Banana occupied 10% area of the total horticultural crops in the district. It is grown as a sole crop as well as intercrop in arecanut garden. Banana responds well to good cultural practices. Comparatively lower yields are registered due to improper nutrient management. By realizing the thrust area KVK conducted on farm trials from 2008-10 on nutrient management of banana including foliar spray of 'Banana Special'. Banana Special is a micro nutrient formulation released by Indian Institute of Horticulture Research (IIHR), Bangalore. In on-farm trials four

options *viz.,* farmer's practice, recommended practice of UAS, Bangalore, two alternate practices with slight modification in recommended practice were included and important observations bunch weight, percent finger cracking and yield were recorded. By spraying 0.5% banana special at 5,6,7,8 months after planting and two sprays on bunches has registered 10-20 % higher yield. The other beneficial effects are negligible finger cracking, higher bunch weight and higher B:C compared to other options in the trial.

Impact: Due to the constant effort by the KVK this refined practice under OFT has been already spread to 15% of the banana growing area for higher yields. On an average net profit of Rs. 10000-12000 / ha can be earned. The details of the OFT are given here under.

| Technology | 2008-09 | | | | 2009-10 | | | | 2010-11 | | | |
|------------|-------------------------|---------------------------|-----------------|------|-------------------------|---------------------------|-----------------|------|-------------------------|---------------------------|-----------------|------|
| Assessed | Bunch weight (kg) | Finger cracking (%) | Yield (t/ha) | B:C | Bunch weight (kg) | Finger cracking (%) | Yield (t/ha) | B:C | Bunch weight (kg) | Finger cracking (%) | Yield (t/ha) | B:C |
| Tech 1 | 6.02 | 10-12 | 12.39 | 1.14 | 9.41 | 10.5-12.5 | 23.52 | 1.55 | 8.05 | 6.81 | 24.95 | 1.95 |
| Tech 2 | 9.69 | 8.0-9.6 | 21.56 | 2.01 | 13.07 | 8-10 | 32.69 | 2.09 | 13.14 | 4.39 | 40.73 | 3.01 |
| Tech 3 | 12.90 | 2.0-3.1 | 26.70 | 2.42 | 13.52 | 5.7.5 | 33.80 | 2.12 | 14.62 | 1.89 | 41.91 | 2.98 |
| Tech 4 | 14.01 | 1.0-1.08 | 30.17 | 2.65 | 15.90 | 1.1.10 | 39.75 | 2.36 | 13.52 | 2.01 | 45.32 | 3.18 |

NOTE:

| Technology 1 | : | 150:75:150 NPK at 2 splits at the time of planting and 3 months after planting + recommended FYM |
|--------------|---|--|
| Technology 2 | : | Recommended NPK + 4 splits + recommended FYM |
| Technology 3 | : | Recommended NPK + recommended FYM +application of 2, 4-D at 20 ppm at full flowering stage / use of 3%.Panchagavya |
| Technology 4 | : | Recommended NPK + recommended FYM +Banana special 0.5 $\%$ foliar spray at 5, 6, 7, 8 months of the planting and 2 sprays on bunch |

3) MUSHROOM - Unleashing Enterprise

Background :

- Inefficient use of abundant crop residues from paddy, maize, sugarcane, arecanut and coconut.
- Crop residues are inputs for mushroom enterprise.

Intervention by KVK :

- Trained 384 unemployeed youth through 5 on campus and 12 off campus trainings.
- Skill transformation on mushroom production techniques.
- Educated to use mushroom substates to enrich compost.
- Emphasis on value addition / marketing.

Output :

- 146 participants growing and using mushroom as component in their daily diet.
- 5 entrepreneurs started mushroom production as an unleashing enterprise.

Successful entrepreneur :

Mr. Gangadhar N. H., Kumbara Gundi, Shimoga

- Selling 5 kgs. mushroom per day @ Rs.75/- per kg.
- Selling 3 kgs. of spwan @ Rs.60/- per kg.
- Daily income : Rs.550/-
- Monthly net income : Rs.16,500/-
- Developed marketing linkages with local market, HOPCOMS & super market in the dist.

Outcome :

- Demand is increased for training programme on mushroom production.
- Each entrepreneur has provided opportunity to 2 labours in each production unit.
- Demand for spawn is increased from 4-5 kgs. to 20-25 kgs. per month
- Need is cattered through the mushroom unit in the campus.
- 11.C. Details of impact analysis of KVK activities carried out during the reporting period : NIL

PART XII - LINKAGES

12.A. Functional linkage with different organizations

| SI. No. | Name of organization | Nature of linkage |
|------------|--|--|
| 1. | Karnataka State Dept. of Agriculture | Joint diagnostic survey Joint implementation of FLD's Bi-monthly workshops Collaborative training programme under ATMA Joint field visits Demonstration under ATMA |
| 2. | Karnataka State Dept. of Horticulture | Joint diagnostic survey Collaborative training under NHM project Field visits Technology Demonstration |
| 3. | Karnataka state Dept. of Animal Health & Veterinary Sciences | Collaborative training Joint implementation of animal health camps, vaccination camps, mass deworming and nutrition management of dairy stock and calf management Technology demonstration of Feed formulation etc., |
| 4. | Karnataka State Sericulture Dept. | - Collaborative training ; technology demonstration |
| 5. | Karnataka State Dept. of Fisheries | - Technology demonstration and training under NFDB |
| 6. | Dept. of Industries and commerce | - Collaborative training |
| 7. | All India Radio | - Technology dissemination |
| 8. | Doordarshan & Private TV Channels | - Technology dissemination |
| 9. | Information and Broadcasting Dept. | - Technology dissemination & publicity |
| 10. | Financial institutions like NABARD & Nationalized co-operative banks | - Formation of self help groups -Collaborative training programme - Collaborative farmers training programme |
| 11. | Input agencies | - Technology dissemination |
| 12. | Self Help Group | - Technology dissemination & organizing training |
| 13. | Non-Governmental Organisations | - Training programme |

| 14. | Local village level youth clubs | - Organizing training programme & field demonstration |
|-----|---|--|
| 15. | Co-operative sectors viz., milk producers, co-operative society, water users co-operative society etc., | - Health camps and training programmes |
| 16. | College of Agriculture | Involving RAWEP in conducting Training Programme Method demonstration Group meeting & field visits |
| 17. | Dept. of marketing and Co-operation | - Awareness & training programme on go down schemes |
| 18. | ATMA / SAMETI (S) | Training Programmes, demonstration, field days |
| 19. | Department of Panchayath raj and rural development | Training |
| 20. | Coconut development Board | Training |
| 21. | Protection of Plant Varieties and Farmers' Rights Authority, New Delhi | Training |
| 22. | CPCRI, Kasaragod | Interaction Meet |
| 23. | UAHS, Shimoga | Interaction Meet, Krishi Mela, Training, Seminar, Workshop |

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 | Date/ Month of initiation | Funding agency | Amount |
|---|------------------------------|-------------------------|------------|
| Integrated Farming System Demonstration | April, 2011 | Government of Karnataka | 1.00 crore |

12.C. Details of linkage with ATMA

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

Role of KVK in preparation of SREP of the district

: KVK Subject Matter Specialists are actively involved in preparation of SREP report.

| S. No. | Programme | Particulars | No. of programmes attended by KVK staff | No. of programmes Organized by KVK | Other remarks (if any) |
|-----------|-------------------------|---|--|---|------------------------------|
| 01 | Meetings | In preparation of SREP report for Shimoga district | 2 | 1 | |
| 02 | Research projects | | | | |
| 03 | Training programmes | 1. Modified guidelines of ATMA, 2. Organic Farming | 2 | 2 | |
| 04 | Demonstrations | | | | |
| | | | | | |
| 05 | Extension Programmes | | | | |
| | Kisan Mela | | | | |
| | Technology Week | | | | |
| | Exposure visit | | | | |
| | Exhibition | | | | |

Coordination activities between KVK and ATMA during 2013-14

| | Soil health camps | | |
|----|----------------------|--|--|
| | Animal Health | | |
| | Campaigns | | |
| | Others (PI. specify) | | |
| 06 | Publications | | |
| | Video Films | | |
| | Books | | |
| | Extension | | |
| | Literature | | |
| | Pamphlets | | |
| | Others (PI. specify) | | |
| 07 | Other Activities | | |
| 07 | (PI. specify) | | |
| | Watershed | | |
| | approach | | |
| | Integrated Farm | | |
| | Development | | |
| | Agri-preneurs | | |
| | development | | |
| | | | |

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

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

12.F. Details of linkage with RKVY : NIL

12.G Kisan Mobile Advisory Services

| Month | No. of SMS sent | No. of farmers to which SMS was sent | No. of feedback / query on SMS sent |
|----------------------------|--------------------|--------------------------------------|---|
| April 2013 | 2 | 69 | |
| May 2013 | 9 | 183 | |
| June 2013 | 25 | 381 | |
| July 2013 | 12 | 148 | |
| August 2013 | 15 | 294 | |
| September 2013 | 4 | 45 | 3 |
| October 2013 | 3 | 1325 | |
| November 2013 | 1 | 43 | 2 |
| December 2013 | 4 | 267 | |
| January 2014 | 4 | 267 | 2 |
| February 2013 | 4 | 3779 | |
| March 2014 | 17 | 1515 | |
| Total for the year 2013-14 | 100 | 8316 | |

PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

| | | Vear of | | Details o | n | Amou | | | |
|------------|--------------|-------------------|--------------|---------------------------------|---------|--------------------|----------------|--------------------------|-------------|
| SI. No. | Demo Unit | Establish ment | Area (ha) | Variety | Produce | Qty. (kg./Nos.) | Cost of inputs | Gross income (Rs.) | Rem arks |
| 1. | Horticulture | 2013 | 0.50 | Tomato –(Arka Rakshak) | Bulk | 182 | | 1820 | |
| | demonstratio | | | Chilli | | 6 | | 120 | |
| n unit | n unit | | | Radish | | 693 | | 3465 | |
| | | | | Carrot | | 22 | | 440 | |
| | | | | French Bean (Arka Anoop) | | 14.5 | | 290 | |
| | | | | Amaranthus | | 1975 | | 1975 | |
| | | | | Drumstick (PKM-1, Bhagya) | | 187 | | 4685 | |
| | | | | Papaya (Red Lady) | | 10 | | 100 | |
| | | | | Redgram (BRG-1, BRG-2) | | 10 | | 300 | |
| | | | | Leafy vegetables | | 120 | | 240 | |
| | | | | Cabbage | | 55 | | 1100 | |

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

| Namo | Data of | Data of | e (| Detail | s of produc | tion | Amoui | nt (Rs.) | |
|-------------------------|---------|---------|------------|---------------------------|--------------------|-------------|-------------------|-----------------|---------|
| of the crop | sowing | harvest | Are (ha | Variety | Type of Produce | Qty. (q) | Cost of inputs | Gross income | Remarks |
| Cereal : Maize | July-13 | Oct-13 | 0.50 | Hema, NH2- 2049 | Bulk | 9.50 | 4513 | 9350 | |
| Cereal : Ragi | July-13 | Oct-13 | 0.36 | GPU- 45, 48, ML-365 | Seed | 12.50 | 8650 | 28750 | |
| Pulses: Redgram | June-13 | Jan-14 | 0.50 | BRG-1, BRG-2 | Seed | 2.20 | 3500 | 10500 | |
| Oil seed : Groundnut | June-13 | Sept-13 | 1.60 | GBPD-4, TMV-2 | Seed | 8.98 | 25625 | 79920 | |
| Fibre - Cotton | June-13 | Jan-14 | 0.50 | Bahubali | Bulk | 2.50 | 5820 | 10400 | |

| 13.C. | Performance of production Units | (bio-agents / bi | o pesticides/ bio | fertilizers etc.,) : NIL |
|-------|---------------------------------|------------------|-------------------|--------------------------|
|-------|---------------------------------|------------------|-------------------|--------------------------|

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

| SI. No. a | Name of the | Detai | Is of production | l | Amou | nt (Rs.) | Damada |
|--------------|--------------------------------|-----------------------|--------------------|--------------|-------------------|--------------|---------|
| | animal / bird / aquatics | Breed | Type of Produce | Qty. (kg) | Cost of inputs | Gross income | Remarks |
| 1. | Fish | Gowri, Catla-Catla | Catla Bulk | | 2560.00 | 8000.00 | |

13.E. Utilization of hostel facilities

| Months | No. of trainees stayed | Trainee days (days stayed) | Reason for short fall (if any) |
|----------------|------------------------|-------------------------------|-----------------------------------|
| April 2013 | - | - | |
| May 2013 | - | - | |
| June 2013 | 38 | 2 | |
| July 2013 | 50 | 2 | |
| August 2013 | 15 | 2 | |
| September 2013 | - | | |
| October 2013 | 34 | 2 | |
| November 2013 | 26 | 2 | |
| December 2013 | - | - | |
| January 2014 | 60 | 6 | |
| February 2014 | 39 | 2 | |
| March 2014 | 40 | 6 | |

Accommodation available (No. of beds) : 40

13.F. Database management :

| S. No. | Database target | Database created |
|--------|-----------------|---|
| 1. | | Managing the data in MS-Office, MS-Excel, 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 | Canara Bank | | | | | - | - |
| With KVK | Canara Bank | S.M.Circle, Shimoga | 524 | Programme Co-ordinator | 32710 | - | CNRB 0000524 |
| IFSD | Canara Bank | S.M.Circle, Shimoga | 524 | Programme Co-ordinator | 44649 | - | CNRB 0000524 |

| S. No. | Particulars | Sanctioned | Released | Expenditure |
|-----------|---|------------|----------|-------------|
| A. Re | curring Contingencies | | | |
| 1 | Pay & Allowances | 5300000 | 5300000 | 6016647 |
| 2 | Traveling allowances | 160000 | 160000 | 175004 |
| 3 | Contingencies | | | |
| A | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 200000 | 200000 | 199999 |
| В | POL, repair of vehicles, tractor and equipments | 185000 | 185000 | 184998 |
| С | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained) | 80000 | 80000 | 80803 |
| D | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | 70000 | 70000 | 69974 |
| E | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | 390000 | 390000 | 389959 |
| F | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | 50000 | 50000 | 49597 |
| G | Training of extension functionaries | 23000 | 23000 | 22170 |
| Н | Maintenance of buildings | 27000 | 27000 | 26770 |
| 1 | Establishment of Soil, Plant & Water Testing Laboratory | | | |
| J | Library | 5000 | 5000 | 4947 |
| TOTA | AL (A) | 6490000 | 6490000 | 7220868 |
| B. No | on-Recurring Contingencies | | | |
| 1 | Works | | | |
| 2 | Equipments including SWTL & Furniture | | | |
| 3 | Vehicle (Four wheeler/Two wheeler, please specify) | | | |
| 4 | Library (Purchase of assets like books & journals) | | | |
| TOTA | AL (B) | | | |
| C. RE | | | | |
| GRA | ND TOTAL (A+B+C) | 6490000 | 6490000 | 7220868 |

14.B. Utilization of KVK funds during the year 2013-14 (Rs. in lakh)

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

| Year | Opening balance as on 1 st April | Income during the year | Expenditure during the year | Net balance in hand as on 1 st April of each year |
|-----------------------------|--|------------------------------|--------------------------------|--|
| April 2011 to March 2012 | 2,39,581.00 | 2,01,594.00 | 1,07,819.00 | 3,33,356.00 |
| April 2012 to March 2013 | 3,33,356.00 | 4,79,919.00 | 3,34,610.00 | 4,78,665.00 |
| April 2013 to March 2014 | 4,78,665.00 | 8,00,801.00 | 5,30,339.00 | 7,49,127.00 |

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 |
|----------------------------|---|--|---|---|
| Dr. B.C. Dhananjaya | Subject Matter Specialist (SS & AC) | International Post Graduate training programme on, "Agri-Green management: Agri-Environmental considerations under Climatic Changes" | Hebrew University of Jerusalem, Israel | 29 th April to 23 rd May, 2013 |
| Dr. Nagarajappa Adivappar | Subject Matter Specialist (Horticulture) | Training programme on Farmers' Field School | Farmers Training Institute, GKVK, Bangalore | 24 th to 26 th June, 2013 |
| Dr. K. R. Shreenivasa | Subject Matter Specialist (Plant Protection) | Training programme on Farmers' Field School | Farmers Training Institute, GKVK, Bangalore | 24th to 26th June, 2013 |
| Smt. B.S.Geetha | Programme Assistant (Computer) | Enhancement of Programming Skill development | Staff Training Unit, UAS, Dharwad | 18th to 31st August, 2013 |
| Dr. B.C. Dhananjaya | Subject Matter Specialist (Soil Science) | SREP of Shimoga district | KSDA, Shimoga | 22 nd & 23 rd Nov. 2013 |
| Mr. Basavaraja Beerannavar | Subject Matter Specialist (Agril.Extension) | SREP of Shimoga district | KSDA, Shimoga | 22 nd & 23 rd Nov. 2013 |
| Dr. Nagarajappa Adivappar | Subject Matter Specialist (Horticulture) | SREP of Shimoga district | KSDA, Shimoga | 22 nd & 23 rd Nov. 2013 |
| Dr. Ashok M. | Subject Matter Specialist (Animal Science) | SREP of Shimoga district | KSDA, Shimoga | 22 nd & 23 rd Nov. 2013 |
| Dr. T.M.Soumya | Subject Matter Specialist (Agronomy) | Orientation programme for newly recruited technical staff of KVK | Directorate of Extension UAS, Bangalore | 26th Dec,to 28th Dec.13 |
| Dr. Nagarajappa Adivappar | Subject Matter Specialist (Horticulture) | National Symposium on Cashew | UAHS, Shimoga | 29th to 30th October, 2013 |
| Dr. Nagarajappa Adivappar | Subject Matter Specialist (Horticulture) | Third International Conference on Extension Educational Strategies for sustainable agriculture development - A global prospective | UAS, GKVK, Bangalore | 5th to 8th December, 2013 |
| Mr. Basavaraja Beerannavar | Subject Matter Specialist (Agril.Extension) | Third International Conference on Extension Educational Strategies for sustainable agriculture development - A global prospective | UAS, GKVK, Bangalore | 5 th to 8 th December, 2013 |

| Name of the staff | Designation | Title of the training programme | Institute where attended | Dates |
|---------------------------|--|--|---|---------------------------------------|
| Dr. B.C.Hanumanthaswamy | Programme Co-ordinator | National Conference on Soil Biology and Ecology | UAS, GKVK, Bangalore | 19-21 st December, 2013 |
| Dr. Nagarajappa Adivappar | Subject Matter Specialist (Horticulture) | National Conference on spices | UAHS, Shimoga | 19th to 21st December, 2013 |
| Dr. Nagarajappa Adivappar | Subject Matter Specialist (Horticulture) | Sandalwood based agroforestry models | Institute of Wood Science and Technology, Bangalore | 6th to 8th January, 2014 |
| Smt. Sujatha, K. | Assistant | Recovery of mandatory taxes in the various bills submitted to comptrollers' office for payments. | UAHS, Shimoga | 10th January, 2014 |
| Smt. B.S.Geetha | Prog.Asst.(Computer) | Recovery of mandatory taxes in the various bills submitted to Comptrollers office for payments. | UAHS, Shimoga | 10th January, 2014 |
| Smt. B.S.Geetha | Prog.Asst.(Computer) | Project Planning and Management using Microsoft Project | National institute of Agricultural extension management (MANAGE), Rajendra Nagar, Hyderabad | 24th to 28th Feb. 2014 |

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

SUMMARY FOR 2013-14

I. TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops

| Thematic areas | Crop | Name of the technology assessed | No. of trials |
|--|----------|---|---------------|
| Integrated Nutrient Management | Maize | Assessment of nitrogen scheduling in maize | 3 |
| Varietal Evaluation | Turmeric | Assessment of high yielding turmeric varieties | 2 |
| Integrated Pest Management | | | |
| Integrated Crop Management | | | |
| Integrated Disease Management | | | |
| Small Scale Income Generation Enterprises | | | |
| Weed Management | | | |
| Resource Conservation Technology | | | |
| Farm Machineries | | | |
| Integrated Farming System | | | |
| Seed / Plant production | | | |
| Value addition | | | |
| Drudgery Reduction | | | |
| Storage Technique | | | |
| Others (Pl. specify) | | | |
| Total | | | 5 |

Summary of technologies assessed under livestock

| Thematic areas | Name of the livestock enterprise | Name of the technology assessed | No. of trials |
|----------------------------|--|--|---------------|
| Disease Management | Dairy | Assessment of effective treatment technique for repeat breeding in cross bred cows | 20 units |
| Evaluation of Breeds | | | |
| Feed and Fodder management | | | |
| Nutrition Management | | | |
| Production and Management | | | |
| Others (Pl. specify) | | | |
| | | TOTAL | 20 units |

Summary of technologies assessed under various enterprises : NIL

Summary of technologies assessed under home science : NIL

II. TECHNOLOGY REFINEMENT

Summary of technologies refined under various crops : NIL Summary of technologies assessed under refinement of various livestock : NIL Summary of technologies refined under various enterprises : NIL Summary of technologies refined under home science : NIL

III. FRONTLINE DEMONSTRATION

Crops

*Economics of demonstration *Economics of check No. of Name of the Yield (q/ha) Other parameters % Thematic Area (Rs./ha) (Rs./ha) No. of technology Crop change KVKs Far (ha) Gross Gross Net ** Gross Gross Net ** area in yield demonstrated Demo Check Demo Check mer BCR BCR Cost Return Return Cost Return Return No. of tillers / hill Cereals • Weed IPM 34000 12 5.0 59 48 22.92 82600 48600 2.43 32000 67200 35200 2.10 management Paddy 23.50 16.00 through -Londax power Weed count herbicide @ 4 mean No. per kg/ac. sqm. (Monocot) Seed treatment with 1.82 2.74 Carbendazim @ 4 gm/kg Weed count mean No. per Soil sqm. (Dicot) application of Carbofuron 3.84 3.96 @2kg/ac nursery Sheath blight (%) Stem-borer • management 22.40 24.50 through pheromone Stem borer (%) traps & Chloropyripho 8.20 11.40 s @ 0.2% Sheath blight Leaf roller (%) management through 9.60 12.20 Hexaconazole @ 0.1% Bacterial blight (%) 17.00 10.50 Blast (%) 11.50 13.50

| Paddy | Sheath blight | Spraying of 0.02% Trifloxystrobin & | | 10 | 4.0 | 55 | 46 19 56 Sheath blight incidence (%) | | i blight ce (%) | 28000 | 77000 | 49000 | 2.75 | 26000 | 64400 | 38400 | 2.48 | |
|-------------------------|------------------------|--|---|-------|-----|-------|--------------------------------------|-------|--------------------|----------------|-------|----------|-------|-------|-------|-------|-------|------|
| | manageme nt | Tebuconazole (NATIVO) | | | | | | | 20.50 | 28.00 | | | | | | | | |
| Ragi | ICM | Integrated crop management in Ragi | - | 8 | 3.2 | 27.44 | 24.50 | 12.00 | | | 11800 | 49392 | 37592 | 4.19 | 11250 | 44100 | 32850 | 3.92 |
| Millets | | | | | | | | | | | | | | | | | | |
| Oilseeds Groundnut | ICM | Demonstration of groundnut | | | | | | | She perce | lling ntage | _ | | | | | | | |
| | | Application of lime based on | | 5 2.0 | 2.0 | 11.23 | 9.50 | 18.21 | 70.2 | 68.8 | 21250 | 74118 | 52868 | 3.49 | 19550 | 62700 | 43200 | 3.21 |
| | | Soil test Seed treatment with PSB and Trichoderma | | | | | | | | | | | | | | | | |
| | | Foliar nutrition of Boron (0.2 to 0.3 %) | | | | | | | | | | | | | | | | |
| Sunflower | ICM | Demonstration of sun flower hybrid, KBSH 53 | | 12 | 4.8 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | I | I | I | |
| | | Seed treatment with Imidacloprid @5g/kg | | | | | | | | | | | | | | | | |
| | | • Soil application of <i>Trichoderma</i> @ 4kg/ac | | | | | | | | | In | progress | | | | | | |
| | | Sulphur nutrition @ 20 Kg/ha as SSP | | | | | | | | | | | | | | | | |
| | | Foliar nutrition of Boron (0.2 to 0.3 %) | | | | | | | | | | | | | | | | |
| Pulses Green Gram | Varietal evaluation | Demonstration of Green Gram variety KKM-3 for rice fallows. | | 7 | 2.4 | | | | | | In | progress | | | | | | |

| Vegetables French Bean | Varietal introduction | Photoperiod insensitive, stringless, round and high yielding French bean variety – Arka Sharath | 4 | 2.0 | 255.5 | 224.5 | 240 | Duration (days)7580Fiber contentFiberLesslessfiberAverage PodWeight (g)10.587.94Average Podlength (cm)17.1212.31Yellow veinMosaic (%)0.010.1 | 72840 | 264000 | 191160 | 3.62 | 64225 | 190200 | 125975 | 2.96 |
|------------------------------|--------------------------|---|---|-----|--------|--------|--------|--|--------|--------|--------|------|--------|--------|--------|------|
| Tomato | Varietal evaluation | High yielding and triple disease tolerant F1 hybrid tomato – Arka Rakshak | 4 | 2.0 | 781.50 | 671.40 | 726.45 | Duration (days)140130- 135Disease resistanceResistant to 3 diseases viz., LeafNot Resista virus, ntLeaf curl curl witt, early blightNot Fruit Weight (g)9080-90Keeping quality (days)8-107-8 | 110890 | 435870 | 324988 | 3.93 | 128525 | 388872 | 260347 | 3.02 |
| Flower Gaillardia | Varietal introduction | High yielding garland purpose flower crop Gaillardia | 4 | 2.0 | 125.00 | 112.50 | 11.11 | Keeping quality of flowers (hr)4842Flower colourFlower colourYellowYellowYellowandPink | 72415 | 250000 | 177585 | 3.45 | 78980 | 225000 | 146020 | 2.84 |

| Orname ntal | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|----|-----|-------|-----------------------|-------|--|-----------------|----------|------------|------------|----------|-----------|------------|----------|------|--|
| Fruit Pineapple | Managem ent of heart rot disease | Soil application of Neem enriched Trichoderma @ 20 gm/hill + Sucker treatment with Metalaxyl MZ @ 0.3% Drenching with Metalaxyl MZ when disease is noticed | 5 | 2.0 | | | | | | In p | progress | | | | | | | |
| Fibres like | | | | | | | | | | | | | | | | | | |
| Spices and condim | Manageme nt of shoot borer | Spraying of insecticide, Lambda Cyabalothrin @ | 14 | 5.0 | 282 | 228 | 23.68 | Shoot inciden | borer ce (%) | 336000 | 846000 | 510000 | 2.52 | 312000 | 684000 | 372000 | 2.19 | |
| Ginger | | 1.0 ml/L. | | | | | | 12.5 | 23.00 | | | | | | | | | |
| cial | | | | | | | | | | | | | | | | | | |
| Medicina I and aromatic | | | | | | | | | | | | | | | | | | |
| Fodder South African | Fodder production | 1) Demonstration of leguminous | | | 183.5 | 140 | | | | <u> </u> | <u> </u> | | <u> </u> | <u> </u> | <u> </u> | <u> </u> | | |
| Multicut sorghum | | leguminous fodder varieties | 5 | 2 | 790 | (CO 3 and | 31.07 | | IN | | ESS (multi | cut sorghi | um and I | Napier hy | brid yield | | | |
| Napier Hybrid | | – South African Tall Maize | - | - | 805 | local sorghu m) | | Taken for only three cuttings and Lucerne crop stand in the farmers field is yet to be harvest | | | | | | | | | | |
| Cowpea | | – Napier Hybrid CO4 | | | 118 | 1117 | | | | | | | | | | | | |

| Lucerne | | Multicut Sorghum COFS29 Cowpea KBC-2 Lucerne 2) Scientific feeding of different fodders and concentrate feed. | | | Crop sov | vn during | summer | | | | | | | | | | |
|-----------------------------------|-----------------------------------|--|----|-----|----------|-----------|--------|------------------------------|----------------------------|-------|--------|--------|------|-------|--------|--------|------|
| Plantati on Arecanut | Manageme nt of Root grub | Application of neem cake and Imidachloprid @ 0.5 ml/ltr. | 6 | 5.0 | 10.0 | 8.0 | 25.0 | No. of pla | grubs / ant 7.0 | 63000 | 200000 | 137000 | 3.17 | 54000 | 160000 | 106000 | 2.96 |
| | Manageme nt of | Carbendazim + Mancozeb (SAAF) – 2 gm/ltr. | | | | | | Dieback i (% 4.5 | ncidence 6) 16 | - | | | | | | | |
| Arecanut | ce die back and caterpillar | Chloropyriphos – 2 ml/ltr. | 10 | 4.0 | 9.25 | 7.5 | 23.33 | Inflores cater inciden | scence pillar ce (%) | 60000 | 185000 | 125000 | 3.08 | 52000 | 150000 | 98000 | 2.88 |
| | | Preparation and | | | | | | Snail co | ntrol (%) | | | | | | | | |
| Arecanut | Manageme nt of snails | Poisonbait; 10 kg. Rice bran, 4 kg. jaggery, 100 gm. Methomyl | 12 | 5.0 | 9.5 | 7.75 | 22.58 | 71.05 | 43.83 | 62000 | 190000 | 128000 | 3.06 | 53000 | 155000 | 102000 | 2.92 |
| Fibre | | | | | | | | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | | | | | | | | |
| | Total | | | | | | | | | | | | | | | | |

* Economics is worked out based on total cost of production per unit area and not on critical inputs alone. ** BCR= GROSS RETURN/GROSS COST

Livestock

| 0-through | Thomas | Name of the | No. of | No. of | No. of | Major pa | arameters | % change in | Other pa | rameter | *Ecor | nomics of de | emonstratio | on (Rs.) | | Economics* Rs) | s of check | |
|------------------------|--------------------------------|------------------------------------|--------|--------|--------|-----------------------------|--------------------|-------------|------------------------|------------------------------------|---------------|-----------------|---------------|-----------|---------------|-------------------|---------------|-----------|
| Category | I nematic area | demonstrated | KVKs | Farmer | units | Demons ration | Check | parameter | Demons ration | Check | Gross Cost | Gross Return | Net Return | ** BCR | Gross Cost | Gross Return | Net Return | ** BCR |
| Dairy | Increasing the milk | Feeding by pass fat to | | 20 | 13 | Milk f | fat (%) | 60 | Milk ` (L/day/a | Yield animal) | | | | | | | | |
| | fat | cross bred | | | | | | | 15.3 | 15.00 | 26496 | 35802 | 9306 | 1 40 | 24350 | 27000 | 2650 | 1 10 |
| | percentage | cows during early | | | | 4% | 2.5% | | perce | ntage | | | | | | | | |
| | | lactation | | | | | | | 73.0 | 65.0 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Poultry | Increase in poultry production | Demonstration of Swarnadhara | | 5 | 5 | 8 th wee weig | ek body jht (g) | 75 % | Mortali (up t We | ty (%) o 8 th ek) | | | 1 | In prog | gress | | 1 | - |
| | in rural areas | bird in backyard poultry | | | | 1150 g | 650 g | | | | | 1 | 1 | 1 | - | 1 | I | 1 |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Rabbitry | | | | | | | | | | | | | | | | | | |
| Pigerry | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Sheep and goat | | | | | | | | | | | | | | | | | | |
| Destaura | | | | | | | | | | | | | | | | | | |
| Duckery | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | Total | | | | | 1 | | 1 | 1 | 1 | <u> </u> | 1 | 1 | 1 | <u> </u> | 1 | <u> </u> |

* Economics is worked out based on total cost of production per unit area and not on critical inputs alone. ** BCR= GROSS RETURN/GROSS COST Fisheries : NIL

Other enterprises : NIL

Women empowerment : NIL

Farm implements and machinery : NIL

Other enterprises : NIL

Demonstration details on crop hybrids : NIL

IV. Training Programme

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

| | | | | | No | . of Particip | oants | | | |
|------------------------------------|--------|------|---------|-------|------|---------------|-------|------|------------|-------|
| Area of training | NO. OF | | General | | | SC/ST | | | Grand Tota | al |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Crop Production | | | | | | | | | | |
| Weed Management | | | | | | | | | | |
| Resource Conservation Technologies | | | | | | | | | | |
| Cropping Systems | | | | | | | | | | |
| Crop Diversification | | | | | | | | | | |
| Integrated Farming | 3 | 58 | | 58 | 13 | | 13 | 71 | | 71 |
| Micro Irrigation/Irrigation | | | | | | | | | | |
| Seed production | | | | | | | | | | |
| Nursery management | | | | | | | | | | |
| Integrated Crop Management | 7 | 293 | 27 | 320 | 98 | 3 | 101 | 391 | 30 | 421 |
| Soil and Water Conservation | | | | | | | | | | |
| Integrated Nutrient Management | | | | | | | | | | |

| Production of organic inputs | | | | | | | | | | |
|--|---|----|---|----|----|---|----|-----|---|-----|
| Others (pl.specify) | 2 | 57 | 4 | 61 | 9 | | 9 | 66 | 4 | 70 |
| Horticulture | | | | | | | | | | |
| a) Vegetable Crops | | | | | | | | | | |
| Production of low value and high volume crop | 1 | 49 | 1 | 50 | 17 | | 17 | 66 | 1 | 67 |
| Off-season vegetables | | | | | | | | | | |
| Nursery raising | 1 | 26 | | 26 | 12 | | 12 | 38 | | 38 |
| Exotic vegetables | | | | | | | | | | |
| Export potential vegetables | | | | | | | | | | |
| Grading and standardization | | | | | | | | | | |
| Protective cultivation | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| b) Fruits | | | | | | | | | | |
| Training and Pruning | | | | | | | | | | |
| Layout and Management of Orchards | | | | | | | | | | |
| Cultivation of Fruit | | | | | | | | | | |
| Management of young plants/orchards | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | |
| Export potential fruits | | | | | | | | | | |
| Micro irrigation systems of orchards | | | | | | | | | | |
| Plant propagation techniques | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| c) Ornamental Plants | | | | | | | | | | |
| Nursery Management | | | | | | | | | | |
| Management of potted plants | | | | | | | | | | |
| Export potential of ornamental plants | | | | | | | | | | |
| Propagation techniques of Ornamental Plants | 2 | 32 | 6 | 38 | 17 | 2 | 19 | 49 | 8 | 57 |
| Others (pl.specify) | | | | | | | | | | |
| d) Plantation crops | | | | | | | | | | |
| Production and Management technology | 1 | 80 | 4 | 84 | 36 | | 36 | 116 | 4 | 120 |
| Processing and value addition | | | | | | | | | | |

| Others (pl.specify) | | | | | | | | | | |
|--|---|----|----|----|----|----|----|-----|----|-----|
| e) Tuber crops | | | | | | | | | | |
| Production and Management technology | 2 | 26 | 36 | 62 | 12 | 26 | 38 | 38 | 62 | 100 |
| Processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| f) Spices | | | | | | | | | | |
| Production and Management technology | 1 | 6 | | 6 | 2 | 1 | 3 | 8 | 1 | 9 |
| Processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| g) Medicinal and Aromatic Plants | | | | | | | | | | |
| Nursery management | | | | | | | | | | |
| Production and management technology | | | | | | | | | | |
| Post harvest technology and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Soil Health and Fertility Management | | | | | | | | | | |
| Soil fertility management | 1 | 39 | 3 | 42 | 10 | | 10 | 49 | 3 | 52 |
| Integrated water management | | | | | | | | | | |
| Integrated nutrient management | 1 | 35 | | 35 | 10 | | 10 | 45 | | 45 |
| Production and use of organic inputs | | | | | | | | | | |
| Management of Problematic soils | | | | | | | | | | |
| Micro nutrient deficiency in crops | 1 | 7 | | 7 | 3 | | 3 | 10 | | 10 |
| Nutrient use efficiency | | | | | | | | | | |
| Balanced use of fertilizers | | | | | | | | | | |
| Soil and water testing | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Livestock Production and Management | | | | | | | | | | |
| Dairy Management | 3 | 52 | 20 | 72 | 50 | 15 | 65 | 102 | 35 | 137 |
| Poultry Management | 1 | 9 | 1 | 10 | 4 | | 4 | 13 | 1 | 14 |
| Piggery Management | | | | | | | | | | |
| Rabbit Management | | | | | | | _ | | | |
| Animal Nutrition Management | 1 | 31 | | 31 | 25 | | 25 | 56 | | 56 |

| Animal Disease Management | 1 | 15 | 6 | 21 | 9 | 2 | 11 | 24 | 8 | 32 |
|--|---|-----|---|-----|-----|----|-----|-----|----|-----|
| Feed and Fodder technology | 4 | 107 | 9 | 116 | 102 | 43 | 145 | 209 | 52 | 261 |
| Production of quality animal products | | | | | | | | | | |
| Others (pl.specify) | 1 | 39 | | 39 | 14 | 3 | 17 | 53 | 3 | 56 |
| Home Science/Women empowerment | | | | | | | | | | |
| Household food security by kitchen gardening and nutrition gardening | | | | | | | | | | |
| Design and development of low/minimum cost diet | | | | | | | | | | |
| Designing and development for high nutrient efficiency diet | | | | | | | | | | |
| Minimization of nutrient loss in processing | | | | | | | | | | |
| Processing and cooking | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | |
| Storage loss minimization techniques | | | | | | | | | | |
| Value addition | 1 | 15 | 4 | 19 | 5 | 3 | 8 | 20 | 7 | 27 |
| Women empowerment | | | | | | | | | | |
| Location specific drudgery production | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | |
| Women and child care | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Agril. Engineering | | | | | | | | | | |
| Farm machinery and its maintenance | | | | | | | | | | |
| Installation and maintenance of micro irrigation systems | | | | | | | | | | |
| Use of Plastics in farming practices | | | | | | | | | | |
| Production of small tools and implements | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | |
| Small scale processing and value addition | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Plant Protection | | | | | | | | | | |
| Integrated Pest Management | 1 | 12 | | 12 | 10 | | 10 | 22 | | 22 |

| Integrated Disease Management | 1 | 9 | | 9 | 4 | | 4 | 13 | | 13 |
|---|---|----|----|----|----|---|----|----|----|-----|
| Bio-control of pests and diseases | 1 | 10 | 3 | 13 | 15 | 7 | 22 | 25 | 10 | 35 |
| Production of bio control agents and bio | | | | | | | | | | |
| pesticides | | | | | | | | | | |
| Others (pl.specify) | 1 | 70 | 10 | 80 | 20 | 4 | 24 | 90 | 14 | 104 |
| Fisheries | | | | | | | | | | |
| Integrated fish farming | | | | | | | | | | |
| Carp breeding and hatchery management | | | | | | | | | | |
| Carp fry and fingerling rearing | | | | | | | | | | |
| Composite fish culture | | | | | | | | | | |
| Hatchery management and culture of freshwater prawn | | | | | | | | | | |
| Breeding and culture of ornamental fishes | | | | | | | | | | |
| Portable plastic carp hatchery | | | | | | | | | | |
| Pen culture of fish and prawn | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | |
| Edible oyster farming | | | | | | | | | | |
| Pearl culture | | | | | | | | | | |
| Fish processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Production of Inputs at site | | | | | | | | | | |
| Seed Production | | | | | | | | | | |
| Planting material production | | | | | | | | | | |
| Bio-agents production | | | | | | | | | | |
| Bio-pesticides production | | | | | | | | | | |
| Bio-fertilizer production | | | | | | | | | | |
| Vermi-compost production | | | | | | | | | | |
| Organic manures production | | | | | | | | | | |
| Production of fry and fingerlings | | | | | | | | | | |
| Production of Bee-colonies and wax sheets | | | | | | | | | | |
| Small tools and implements | | | | | | | | | | |
| Production of livestock feed and fodder | | | | | | | | | | |

| Production of Fish feed | | | | | | | | | | |
|---|----|------|-----|------|-----|-----|-----|------|-----|------|
| Mushroom production | | | | | | | | | | |
| Apiculture | 1 | 6 | 15 | 21 | 3 | 7 | 10 | 9 | 22 | 31 |
| Others (pl.specify) | | | | | | | | | | |
| Capacity Building and Group Dynamics | | | | | | | | | | |
| Leadership development | | | | | | | | | | |
| Group dynamics | | | | | | | | | | |
| Formation and Management of SHGs | 2 | 13 | | 13 | 53 | 6 | 59 | 66 | 6 | 72 |
| Mobilization of social capital | | | | | | | | | | |
| Entrepreneurial development of farmers/youths | 1 | 18 | 7 | 25 | 7 | 4 | 11 | 25 | 11 | 36 |
| Others (pl.specify) | 2 | 59 | 14 | 73 | 28 | 6 | 34 | 87 | 20 | 107 |
| Agro-forestry | | | | | | | | | | |
| Production technologies | | | | | | | | | | |
| Nursery management | | | | | | | | | | |
| Integrated Farming Systems | | | | | | | | | | |
| Others (PI. specify) | | | | | | | | | | |
| TOTAL | 45 | 1173 | 170 | 1343 | 588 | 132 | 720 | 1761 | 302 | 2063 |

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

| | | | | | No | . of Particip | ants | | | |
|------------------------------------|---------|------|---------|-------|------|---------------|-------|------|------------|-------|
| Area of training | No. of | | General | | | SC/ST | | | Grand Tota | ıl |
| | 0001363 | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Crop Production | | | | | | | | | | |
| Weed Management | | | | | | | | | | |
| Resource Conservation Technologies | | | | | | | | | | |
| Cropping Systems | | | | | | | | | | |
| Crop Diversification | | | | | | | | | | |
| Integrated Farming | | | | | | | | | | |
| Micro Irrigation/Irrigation | | | | | | | | | | |
| Seed production | | | | | | | | | | |

| Nursery management | | | | | | | | | | |
|--|---|----|---|----|----|---|----|----|---|----|
| Integrated Crop Management | | | | | | | | | | |
| Soil and Water Conservation | | | | | | | | | | |
| Integrated Nutrient Management | | | | | | | | | | |
| Production of organic inputs | 3 | 40 | | 40 | 27 | 2 | 29 | 67 | 2 | 69 |
| Others (pl.specify) | | | | | | | | | | |
| Horticulture | | | | | | | | | | |
| a) Vegetable Crops | | | | | | | | | | |
| Production of low value and high volume crop | 1 | 28 | | 28 | 11 | | 11 | 39 | | 39 |
| Off-season vegetables | | | | | | | | | | |
| Nursery raising | | | | | | | | | | |
| Exotic vegetables | | | | | | | | | | |
| Export potential vegetables | | | | | | | | | | |
| Grading and standardization | | | | | | | | | | |
| Protective cultivation | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| b) Fruits | | | | | | | | | | |
| Training and Pruning | | | | | | | | | | |
| Layout and Management of Orchards | | | | | | | | | | |
| Cultivation of Fruit | 1 | 10 | 5 | 15 | 7 | 3 | 10 | 17 | 8 | 25 |
| Management of young plants/orchards | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | |
| Export potential fruits | | | | | | | | | | |
| Micro irrigation systems of orchards | | | | | | | | | | |
| Plant propagation techniques | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| c) Ornamental Plants | | | | | | | | | | |
| Nursery Management | | | | | | | | | | |
| Management of potted plants | | | | | | | | | | |
| Export potential of ornamental plants | | | | | | | | | | |
| Propagation techniques of Ornamental Plants | | | | | | | | | | |

| Others (pl.specify) | | | | | | | | | | |
|--|---|----|----|----|----|----|----|----|----|----|
| d) Plantation crops | | | | | | | | | | |
| Production and Management technology | 2 | 42 | 11 | 53 | | | | 42 | 11 | 53 |
| Processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| e) Tuber crops | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| f) Spices | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| g) Medicinal and Aromatic Plants | | | | | | | | | | |
| Nursery management | | | | | | | | | | |
| Production and management technology | 1 | 12 | 2 | 14 | 10 | 2 | 12 | 22 | 4 | 26 |
| Post harvest technology and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Soil Health and Fertility Management | | | | | | | | | | |
| Soil fertility management | | | | | | | | | | |
| Integrated water management | | | | | | | | | | |
| Integrated nutrient management | | | | | | | | | | |
| Production and use of organic inputs | | | | | | | | | | |
| Management of Problematic soils | | | | | | | | | | |
| Micro nutrient deficiency in crops | | | | | | | | | | |
| Nutrient use efficiency | | | | | | | | | | |
| Balanced use of fertilizers | | | | | | | | | | |
| Soil and water testing | | | | | | | | | | |
| Others (pl.specify) | 1 | 4 | 36 | 40 | | 20 | 20 | 4 | 56 | 60 |
| Livestock Production and Management | | | | | | | | | | |
| Dairy Management | 1 | 32 | 2 | 34 | 4 | | 4 | 36 | 2 | 38 |

| Poultry Management | 2 | 24 | | 24 | 2 | | 2 | 26 | | 26 |
|--|---|----|---|----|----|---|----|----|----|----|
| Piggery Management | | | | | | | | | | |
| Rabbit Management | | | | | | | | | | |
| Animal Nutrition Management | 1 | 6 | 2 | 8 | 22 | 8 | 30 | 28 | 10 | 38 |
| Animal Disease Management | | | | | | | | | | |
| Feed and Fodder technology | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Home Science/Women empowerment | | | | | | | | | | |
| Household food security by kitchen gardening and nutrition gardening | | | | | | | | | | |
| Design and development of low/minimum cost diet | | | | | | | | | | |
| Designing and development for high nutrient efficiency diet | | | | | | | | | | |
| Minimization of nutrient loss in processing | | | | | | | | | | |
| Processing and cooking | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | |
| Storage loss minimization techniques | | | | | | | | | | |
| Value addition | | | | | | | | | | |
| Women empowerment | | | | | | | | | | |
| Location specific drudgery production | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | |
| Women and child care | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Agril. Engineering | | | | | | | | | | |
| Farm machinery and its maintenance | | | | | | | | | | |
| Installation and maintenance of micro irrigation systems | | | | | | | | | | |
| Use of Plastics in farming practices | | | | | | | | | | |
| Production of small tools and implements | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | |
| Small scale processing and value addition | | | | | | | | | | |

| Post Harvest Technology | | | | | | | | | | |
|---|---|----|----|----|----|---|----|----|----|-----|
| Others (pl.specify) | | | | | | | | | | |
| Plant Protection | | | | | | | | | | |
| Integrated Pest Management | 4 | 69 | 16 | 85 | 19 | 9 | 28 | 88 | 25 | 113 |
| Integrated Disease Management | | | | | | | | | | |
| Bio-control of pests and diseases | 1 | 31 | - | 31 | 3 | - | 3 | 34 | - | 34 |
| Production of bio control agents and bio pesticides | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Fisheries | | | | | | | | | | |
| Integrated fish farming | | | | | | | | | | |
| Carp breeding and hatchery management | | | | | | | | | | |
| Carp fry and fingerling rearing | | | | | | | | | | |
| Composite fish culture | | | | | | | | | | |
| Hatchery management and culture of freshwater prawn | | | | | | | | | | |
| Breeding and culture of ornamental fishes | | | | | | | | | | |
| Portable plastic carp hatchery | | | | | | | | | | |
| Pen culture of fish and prawn | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | |
| Edible oyster farming | | | | | | | | | | |
| Pearl culture | | | | | | | | | | |
| Fish processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Production of Inputs at site | | | | | | | | | | |
| Seed Production | | | | | | | | | | |
| Planting material production | | | | | | | | | | |
| Bio-agents production | | | | | | | | | | |
| Bio-pesticides production | | | | | | | | | | |
| Bio-fertilizer production | | | | | | | | | | |

| Vermi-compost production | | | | | | | | | | |
|---|----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| Organic manures production | | | | | | | | | | |
| Production of fry and fingerlings | | | | | | | | | | |
| Production of Bee-colonies and wax sheets | | | | | | | | | | |
| Small tools and implements | | | | | | | | | | |
| Production of livestock feed and fodder | | | | | | | | | | |
| Production of Fish feed | | | | | | | | | | |
| Mushroom production | | | | | | | | | | |
| Apiculture | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Capacity Building and Group Dynamics | | | | | | | | | | |
| Leadership development | | | | | | | | | | |
| Group dynamics | | | | | | | | | | |
| Formation and Management of SHGs | 1 | - | 67 | 67 | - | 15 | 15 | - | 82 | 82 |
| Mobilization of social capital | | | | | | | | | | |
| Entrepreneurial development of farmers/youths | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Agro-forestry | | | | | | | | | | |
| Production technologies | | | | | | | | | | |
| Nursery management | | | | | | | | | | |
| Integrated Farming Systems | | | | | | | | | | |
| Others (PI. specify) Coconut Palm climbing – skill development training | 3 | 43 | 2 | 45 | 13 | 2 | 15 | 56 | 4 | 60 |
| TOTAL | 22 | 341 | 143 | 484 | 118 | 61 | 179 | 459 | 204 | 663 |

Training for Rural Youths including sponsored training programmes (on campus) : NIL

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

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

| | | No. of Participants | | | | | | | | | | |
|---|---------|---------------------|---------|-------|------|--------|-------|-------------|--------|-------|--|--|
| Area of training | No. of | | General | | | SC/ST | | Grand Total | | | | |
| | Courses | Male | Female | Total | Male | Female | Total | Male | Female | Total | | |
| Productivity enhancement in field crops | 1 | 15 | 25 | 40 | - | - | - | 15 | 25 | 40 | | |
| Integrated Pest Management | | | | | | | | | | | | |
| Integrated Nutrient management | | | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | | | |
| Protected cultivation technology | | | | | | | | | | | | |
| Production and use of organic inputs | 1 | 34 | 5 | 39 | - | - | - | 34 | 5 | 39 | | |
| Care and maintenance of farm machinery and implements | | | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | | | |
| Formation and Management of SHGs | | | | | | | | | | | | |
| Women and Child care | | | | | | | | | | | | |
| Low cost and nutrient efficient diet designing | | | | | | | | | | | | |
| Group Dynamics and farmers organization | | | | | | | | | | | | |
| Information networking among farmers | | | | | | | | | | | | |
| Capacity building for ICT application | | | | | | | | | | | | |
| Management in farm animals | | | | | | | | | | | | |
| Livestock feed and fodder production | | | | | | | | | | | | |
| Household food security | | | | | | | | | | | | |
| Any other (pl.specify) | | | | | | | | | | | | |
| Modified guidelines of ATMA | 1 | 27 | 3 | 30 | 3 | | 3 | 30 | 3 | 33 | | |
| Organic farming | 1 | 34 | 5 | 39 | | | | 34 | 5 | 39 | | |
| Use of trichoderma in forest nursery | 1 | 30 | | 30 | 10 | | 10 | 40 | | 40 | | |
| Modified guidelines of ATMA | 1 | 27 | 3 | 30 | 8 | | 8 | 35 | 3 | 38 | | |
| Advanced production technologies in fruit and spice crops | 1 | 19 | 1 | 20 | | | | 19 | 1 | 20 | | |
| Model Kitchen garden | 1 | 9 | 31 | 40 | | | | 9 | 31 | 40 | | |
| Scientist and Extension worker interface in arecanut and | 1 | 48 | 8 | 56 | | | | 48 | 8 | 56 | | |
| coconut | • | -10 | 0 | 00 | | | | -10 | 0 | 00 | | |
| Programme planning | 1 | 13 | 16 | 29 | | | | 13 | 16 | 29 | | |
| Documentation of success stories | 1 | 32 | | 32 | | | | 32 | | 32 | | |
| Total | 11 | 288 | 97 | 385 | 21 | 0 | 21 | 309 | 97 | 406 | | |
Training programmes for Extension Personnel including sponsored training programmes (off campus)

| | | | | | No. of | Participar | nts | | | |
|---|---------|------|---------|-------|--------|------------|-------|------|-------------|-------|
| Area of training | No. of | | General | | | SC/ST | | (| Grand Total | |
| | 0001363 | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Productivity enhancement in field crops | | | | | | | | | | |
| Integrated Pest Management | | | | | | | | | | |
| Integrated Nutrient management | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | |
| Protected cultivation technology | | | | | | | | | | |
| Production and use of organic inputs | | | | | | | | | | |
| Care and maintenance of farm machinery and implements | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | |
| Formation and Management of SHGs | | | | | | | | | | |
| Women and Child care | | | | | | | | | | |
| Low cost and nutrient efficient diet designing | | | | | | | | | | |
| Group Dynamics and farmers organization | | | | | | | | | | |
| Information networking among farmers | | | | | | | | | | |
| Capacity building for ICT application | | | | | | | | | | |
| Management in farm animals | | | | | | | | | | |
| Livestock feed and fodder production | | | | | | | | | | |
| Household food security | | | | | | | | | | |
| Any other (pl.specify) | | | | | | | | | | |
| Establishment and maintenance of nutritional gardens | 1 | 12 | 8 | 20 | - | - | - | 12 | 8 | 20 |
| TOTAL | 1 | 12 | 8 | 20 | - | - | - | 12 | 8 | 20 |

Sponsored training programmes

| | | | No. of Participants | | | | | | | | |
|--------|---|---------|---------------------|---------|-------|------|--------|-------|------|------------|-------|
| S. No. | Area of training | NO. Of | | General | | | SC/ST | | | Grand Tota | ıl |
| | | 0001363 | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| 1 | Crop production and management | | | | | | | | | | |
| 1.a. | Increasing production and productivity of crops | | | | | | | | | | |
| 1.b. | Commercial production of vegetables | | | | | | | | | | |
| 2 | Production and value addition | | | | | | | | | | |
| 2.a. | Fruit Plants | | | | | | | | | | |
| 2.b. | Ornamental plants | | | | | | | | | | |
| 2.c. | Spices crops | | | | | | | | | | |
| 3. | Soil health and fertility management | | | | | | | | | | |
| 4 | Production of Inputs at site | | | | | | | | | | |
| 5 | Methods of protective cultivation | | | | | | | | | | |
| 6 | Others (pl.specify) | | | | | | | | | | |
| 7 | Post harvest technology and value addition | | | | | | | | | | |
| 7.a. | Processing and value addition | | | | | | | | | | |
| 7.b. | Others (pl.specify) | | | | | | | | | | |
| 8 | Farm machinery | | | | | | | | | | |
| 8.a. | Farm machinery, tools and implements | | | | | | | | | | |
| 8.b. | Others (pl.specify) | | | | | | | | | | |
| 9. | Livestock and fisheries | | | | | | | | | | |
| 10 | Livestock production and management | | | | | | | | | | |
| 10.a. | Animal Nutrition Management | | | | | | | | | | |
| 10.b. | Animal Disease Management | | | | | | | | | | |
| 10.c | Fisheries Nutrition | | | | | | | | | | |
| 10.d | Fisheries Management | | | | | | | | | | |
| 10.e. | Others (pl.specify) | | | | | | | | | | |
| 11. | Home Science | | | | | | | | | | |

| 11.a. | Household nutritional security | | | | | | | | | | |
|-------|---|---|----|----|----|----|----|----|----|----|-----|
| 11.b. | Economic empowerment of women | | | | | | | | | | |
| 11.c. | Drudgery reduction of women | | | | | | | | | | |
| 11.d. | Others (pl.specify) | | | | | | | | | | |
| 12 | Agricultural Extension | | | | | | | | | | |
| 12.a. | Capacity Building and Group Dynamics | | | | | | | | | | |
| 12.b. | Others (Pl.specify) | | | | | | | | | | |
| | Protection of plant varieties and farmers' right act-2001 | 1 | 50 | 20 | 70 | 17 | 13 | 30 | 67 | 33 | 100 |
| | Total | 1 | 50 | 20 | 70 | 17 | 13 | 30 | 67 | 33 | 100 |

Details of Vocational Training Programmes carried out for rural youth

| e | | No. of Participants | | | | | | | | | |
|------|--|---------------------|---------|--------|-------|------|--------|-------|------|------------|-------|
| J. | Area of training | | General | | | | SC/ST | | Ģ | Grand Tota | al |
| NO. | | Courses | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| 1 | Crop production and management | | | | | | | | | | |
| 1.a. | Commercial floriculture | | | | | | | | | | |
| 1.b. | Commercial fruit production | | | | | | | | | | |
| 1.c. | Commercial vegetable production | | | | | | | | | | |
| 1.d. | Integrated crop management | | | | | | | | | | |
| 1.e. | Organic farming | | | | | | | | | | |
| 1.f. | Others (Pl.specify) | | | | | | | | | | |
| 2 | Post harvest technology and value addition | | | | | | | | | | |
| 2.a. | Value addition | | | | | | | | | | |
| 2.b. | Others (Pl.specify) | | | | | | | | | | |
| 3. | Livestock and fisheries | | | | | | | | | | |
| 3.a. | Dairy farming | 1 | 34 | 3 | 37 | 20 | - | 20 | 54 | 23 | 77 |
| 3.b. | Composite fish culture | | | | | | | | | | |
| 3.c. | Sheep and goat rearing | | | | | | | | | | |
| 3.d. | Piggery | | | | | | | | | | |
| 3.e. | Poultry farming | | | | | | | | | | |

| 3.f. | Others (pl.specify) | | | | | | | | | | |
|------|--|---|----|----|-----|----|---|----|-----|----|-----|
| 4. | Income generation activities | | | | | | | | | | |
| 4.a. | Vermi-composting | | | | | | | | | | |
| 4.b. | Production of bio-agents, bio-pesticides, bio-fertilizers etc. | | | | | | | | | | |
| 4.c. | Repair and maintenance of farm machinery and implements | | | | | | | | | | |
| 4.d. | Rural Crafts | | | | | | | | | | |
| 4.e. | Seed production | | | | | | | | | | |
| 4.f. | Sericulture | | | | | | | | | | |
| 4.g. | Mushroom cultivation | | | | | | | | | | |
| 4.h. | Nursery, grafting etc. | | | | | | | | | | |
| 4.i. | Tailoring, stitching, embroidery, dying etc. | | | | | | | | | | |
| 4.j. | Agril. para-workers, para-vet training | | | | | | | | | | |
| 4.k. | Others (pl.specify) | | | | | | | | | | |
| 5 | Agricultural Extension | | | | | | | | | | |
| 5.a. | Capacity building and group dynamics | | | | | | | | | | |
| 5.b. | Others (pl.specify) | | | | | | | | | | |
| | Coconut palm climbing – skill development training | 5 | 63 | 10 | 73 | 21 | 6 | 27 | 84 | 16 | 100 |
| | Grand Total | 6 | 97 | 13 | 110 | 41 | 6 | 47 | 138 | 39 | 177 |

V. Extension Programmes

| Activities | No. of programmes | No. of farmers | No. of Extension Personnel | TOTAL |
|------------------------------------|----------------------|-------------------|----------------------------------|-------|
| Advisory Services | 81 | 502 | | 502 |
| Diagnostic visits | 10 | 121 | 24 | 145 |
| Field Day | 10 | 515 | 4 | 519 |
| Group discussions | 3 | 59 | | 59 |
| Kisan Ghosthi | 1 | | | |
| Film Show | 13 | 618 | | 618 |
| Self -help groups | | | | |
| Kisan Mela | 3 | | | |
| Exhibition | 3 | 470 | | 470 |
| Scientists' visit to farmers field | 72 | 304 | | 304 |
| Plant/animal health camps | | | | |
| Farm Science Club | | | | |
| Ex-trainees Sammelan | | | | |
| Farmers' seminar/workshop | 2 | 217 | | 217 |
| Method Demonstrations | 4 | 62 | | 62 |
| Celebration of important days | 5 | 1275 | | 1275 |
| Special day celebration | | | | |
| Exposure visits | 4 | 200 | 4 | 204 |
| Others (pl.specify) | | | | |
| Foot and Mouth Disease awareness | 2 | 92 | 2 | 94 |
| campaign | ۷ | 52 | ۷ | |
| SMS Messages | 100 | 8316 | 40 | 8356 |
| TOTAL | 313 | 12751 | 10 | 12825 |

Details of other extension programmes

| Particulars | Number |
|---|--------|
| Electronic Media | - |
| Extension Literature | 12 |
| News Letter | 4 |
| News paper coverage | 78 |
| Technical Articles | 4 |
| Technical Bulletins | 5 |
| Technical Reports | 57 |
| Radio Talks | 8 |
| TV Talks | 5 |
| Animal health camps (Number of animals treated) | |
| Others (PI.specify) | |
| Abstracts | 18 |
| Awareness Campaign (Foot and Mouth Disease Management in Livestock) | 2 |
| TOTAL | 193 |

VI. PRODUCTION OF SEED/PLANTING MATERIAL

Production of seeds by the KVKs

| Crop category | Name of the crop | Name of the variety | Quantity of seed (q) | Value (Rs) | Number of farmers |
|----------------------|---------------------|---------------------------|----------------------|---------------|----------------------|
| Cereals | Ragi | ML-365, GPU-45, GPU-48 | 12.50 | 28750.00 | 135 |
| Oilseeds | Groundnut | GPBD-4, TMV-2 | 8.98 | 79920.00 | 32 |
| Pulses | Redgram | BRG-1 | 1.90 | 9500.00 | 38 |
| Commercial crops | | | | | |
| Vegetables | | | | | |
| Flower crops | | | | | |
| Spices | | | | | |
| Fodder crop seeds | | | | | |
| Fiber crops | | | | | |
| Forest Species | | | | | |
| Others | | | | | |
| TOTAL | | | 23.38 | 118170.00 | 205 |

Production of planting materials by the KVKs

| Crop category | Name of the crop | Name of the variety | Number | Value (Rs.) | Number of farmers |
|---------------------------|------------------|------------------------|--------|-------------|----------------------|
| Commercial | | | | | |
| Vegetable seedlings | Drumstick | PKM-1, Bhagya | 29413 | 294130.00 | 52 |
| | Tomato | | 3506 | 706.00 | 25 |
| Fruits | Papaya | Red Lady | 23308 | 279691.00 | 59 |
| | Lime | Seedling origin | 93 | 930.00 | 28 |
| | Mango | Alphanso | 2 | 80.00 | 1 |
| Ornamental plants | | | | | |
| Medicinal and Aromatic | | | | | |
| Plantation | | | | | |
| Spices | Curry leaf | Suvasini | 904 | 9040.00 | 62 |
| Tuber | | | | | |
| Fodder crop saplings | | | | | |
| Forest Species | | | | | |
| Others | | | | | |
| Flower | Chrysanthemum | Dundi | 237 | 2370.00 | 25 |
| Total | | | 57463 | 586947.00 | 252 |

Production of Bio-Products : NIL

| Particulars of Live stock | Name of the breed | Number | Value (Rs.) | No. of Farmers |
|------------------------------|--------------------|--------|-------------|----------------|
| Dairy animals | | | | |
| Cows | | | | |
| Buffaloes | | | | |
| Calves | | | | |
| Others (Pl. specify) | | | | |
| Poultry | | | | |
| Broilers | | | | |
| Layers | | | | |
| Duals (broiler and layer) | | | | |
| Japanese Quail | | | | |
| Turkey | | | | |
| Emu | | | | |
| Ducks | | | | |
| Others (Pl. specify) | | | | |
| Piggery | | | | |
| Piglet | | | | |
| Others (Pl.specify) | | | | |
| Fisheries | | | | |
| Fingerlings | | | | |
| Others (PI. specify) | | | | |
| Fish | Gowri, Catla-Catla | 80 | 8000.00 | 12 |
| TOTAL | | 80 | 8000.00 | 12 |

Production of livestock and related enterprise materials :

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

| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages | Amount realized (Rs.) |
|------------------|----------------------------|-----------------------------|--------------------|-----------------------|
| Soil Samples | 451 | 196 | 196 | 13,530.00 |
| Water Samples | 155 | 100 | 100 | 9,300.00 |
| Plant samples | - | - | - | - |
| Manure samples | 08 | 03 | 03 | 960.00 |
| Others (specify) | 01 | 01 | 01 | 100.00 |
| TOTAL | 615 | 190 | 190 | 23,890.00 |

VIII. SCIENTIFIC ADVISORY COMMITTEE

Number of SACs conducted : NIL

IX. NEWSLETTER

Number of issues of newsletter published : 4 Nos.

X. RESEARCH PAPER PUBLISHED : NIL

Number of research paper published :

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

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