# ANNUAL REPORT 2012-13

## (APRIL 2012 TO MARCH 2013)

## KRISHI VIGYAN KENDRA (HAVERI)

# CONTENTS

## 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<br>Hanumanamatti-581115<br>Tq: Ranebennur , Dist: Haveri | 08373-253524 | 08373-253524 | kvk_haveri@rediffmail.com | www.kvkhaveri.org |

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

| Address | Telephone | | E mail | Web Address |
|---|---|---|---|---|
| | Office | Fax | | |
| University of Agricultural Sciences<br>Krishinagar, Dharwad-580005 | 0836-2447783 | 0836-2745276 | vc_uasd@rediffmail.com | www.uasd.edu |

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

| Name | Telephone / Contact | | |
|---|---|---|---|
| | Residence | Mobile | Email |
| Mr. D.S.Mallikarjunappa Gowda | 9449069431 | 09448495338 | dsmgouda@gmail.com |

**1.4. Year of sanction: 1977**

**1.5. Staff Position (as 31st March 2013)**

| Sl. No. | Sanctioned post | Name of the incumbent | Designation | M/F | Discipline | Highest Qualification | Pay Scale | Basic pay | Date of joining KVK | Permanent | Category |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Programme Coordinator | D.S. M. Gowda | PC | M | Ag.Engg. | M.Sc. (Ag.Engg.) | 37400-61000 | 52250 | 09.06.11 | Permanent | Others |
| 2 | SMS | S. A. Astaputre | SMS | M | Plant Pathology | Ph.D | 37400-61000 | 50720 | 11.06.11 | Permanent | Others |
| 3 | SMS | S.Y. Mukartal | SMS | M | Animal Science | M.V.Sc. | 15600-39100 | 24320 | 06.07.09 | Permanent | Others |
| 4 | SMS | T.M. Soumya | SMS | F | Agronomy | Ph.D | 15600-39100 | 25820 | 05.12.08 | Permanent | Others |
| 5 | SMS | Geeta S. Tamgale | SMS | F | Home Science | M.H.Sc. | 15600-39100 | 23610 | 01.07.09 | Permanent | Others |
| 6 | SMS | G. R. Rajakumar | SMS | M | Soil Science | Ph.D | 15600-39100 | 25060 | 12.07.11 | Permanent | Others |
| 7 | SMS | Kavera Biradar | SMS | F | Plant Breeding | Ph.D | 15600-39100 | 24840 | 05.09.12 | Permanent | Others |
| 8 | Programme Assistant ( Lab Tech.) | M. A. Gaddanakeri | Prog. Asst. | M | Soil Science | M.Sc. | 9300-34800 | 15210 | 26.02.09 | Permanent | OBC |
| 9 | Programme Assistant (Computer) | Rekha K.N. | Prog. Asst. | F | Computer science | M.Sc. | 9300-34800 | 15210 | 12.11.08 | Permanent | OBC |
| 10 | Farm Manager | Smt. Sahirabanu Mugannur | Prog. Asst. | F | Farm Manager | B.Sc. | 9300-34800 | 15210 | 02.07.09 | Permanent | OBC |
| 11 | Assistant | Shivappa Hanni | Assistant | M | Assistant | B.Sc. | 20000-36300 | 27000 | 04.07.11 | Permanent | Others |
| 12 | Jr. Stenographer | Saroja B. Talawar | Supporting staff Grade-III | F | Typist | B.A | 16000-29600 | 17200 | 06.11.09 | Permanent | ST |
| 13 | Driver | Mahesh L.M. | Driver | M | Driver | | 11600-21000 | 13000 | 12.07.06 | Permanent | Others |
| 14 | Driver | P.C. Kunbevin | Driver | M | Driver | | 11600-21000 | 21000 | 07.06.98 | Permanent | OBC |
| 15 | Supporting staff | C. V. Nelogal | Supporting staff` | M | Supporting staff | | 10400-16400 | 14550 | 02.11.98 | Permanent | Others |
| 16 | Supporting staff | K. B. Belakeri | Supporting staff | M | Supporting staff | | 10400-16400 | 14550 | 01.07.02 | Permanent | OBC |

**1.6. Total land with KVK (in ha) : 20 ha**

| S. No. | Item | Area (ha) |
|---|---|---|
| 1 | Under Buildings | 2.20 |
| 2. | Under Demonstration Units | 0.00 |
| 3. | Under Crops | 16.20 |
| 4. | Orchard/Agro-forestry | 1.60 |
| 5. | Others | - |

**1.7. Infrastructural Development:**

**A) Buildings**

| S. No. | Name of building | Source of funding | Stage | | |
|---|---|---|---|---|---|
| | | | Complete | | |
| | | | Completion Date | Plinth area (Sq.m) | Expenditure (Rs.) |
| 1. | Administrative Building | ICAR | 1999 | 400 | 27.93 |
| 2. | Farmers Hostel | ICAR | 2004 | 305 | 22.63 |
| 3. | Staff Quarters | ICAR | 2007 | 399 | 39.68 |
| 4 | Rain Water harvesting system | ICAR | 31.01.2008 | 985.96 | 9.11 |

**B) Vehicles**

| Type of vehicle | Year of purchase | Cost (Rs.) | Total kms. Run | Present status |
|---|---|---|---|---|
| Tempo trax Judo KA27/M/1305 | 2002 | 4.50 | 2,77,000 | Under major repair |
| Motor cycle Bajaj CT-100 KA 27/ K8673 | 2005 | 0.40 | 28,560 | Good |
| Tractor and TrailerNew Holland Ford 3230 | 2005 | 5.00 | 3735 (Hours) | Good |
| Motor cycle Bajaj CT-100 KA 27/L4836 | 2006 | 0.40 | 23452 | Good |

**C) Equipments & AV aids**

| Name of the equipment | Year of purchase | Cost (Rs.) | Present status |
|---|---|---|---|
| Spectrophotometer | 31.03.2005 | 40,050 | Good |
| Flame photometer | 31.03.2005 | 32,040 | Good |
| pH meter | 31.03.2005 | 8,900 (850) | Good |
| Conductivity bridge | 31.03.2005 | 9,790(1000) | Good |
| Physical balance | 31.03.2005 | 10,890 | Good |
| Chemical balance | 31.03.2005 | 57,000 | Good |
| Water distillation still | 31.03.2005 | 62,444 | Good |
| Kjeldahl digestion and distillation (2 sets) | 31.032005 | 1,42,844 | Good |
| Shaker | 31.03.2005 | 47,025 | Good |
| Refrigerator | 31.03.2005 | 12,285 | Good |
| Oven | 31.03.2005 | 17,228 | Good |
| Hot plate | 31.03.2005 | 3,046 | Good |
| Grinder | 31.03.2005 | 15,635 | Good |
| Fax machine | 18.03.2004 | 24,900 | Good |
| Xerox machine | 30.11.2004 | 52,000 | Good |
| HP Computer with accessories | 11.11.2006 | 39,216 | Good |
| Multi media projector (LCD) | 16.12.2006 | 58,488 | Good |
| Power weeder | 31.03.2008 | 36,220 | Good |
| Mist blower | 31.03.2008 | 35,110 | Good |
| Toshiba E-Studio Xerox | 3.06.2008 | 55,120 | Good |
| Laser printer | 20.08.2008 | 15043 | Good |
| LCD Motorized screen | 20.08.2008 | 27,000 | Good |
| Toshiba E-Studio Xerox | 24.12.2008 | 55,120 | Good |
| Computer with accessories | 29.01.09 | 300000 | Good |
| HP printer | | | |
| Scanner | | | |
| Server with accessories | | | |
| pH meter | 2012-13 | 25000 | Good |

**1.8. Details SAC meeting conducted in 2012-13**

| Sl. No. | Date | Number of Participants | No. of absentees | Salient Recommendations | Action taken |
|---|---|---|---|---|---|
| 1. | 28.07.2012 | 19 | 12 | Getting help from the State Dept. of Agriculture to supply paddy transplanter for demonstration | Action will be taken during 2013-14 and also suggested Dr. Anuraj, ARS, Mundgod to purchase Paddy transplanter under the RKVY project on Farm machinery and demonstration will be taken up during 2013-14. |
| 2. | | | | Conducting fishery related On and Off campus training programmes | Action will be taken during 2013-14 because of non availability of Resource person |
| 3. | | | | Updating technical information to the farming community regarding availability of Agriculture inputs through SMS | SMS regarding availability of Agriculture inputs have been sent |
| 4. | | | | Conducting demonstration on prevention of stem borer problem in cotton | Conducted FLD on Shoot weevil of cotton (5 ha.) at Bisanalli and Kajjari village |
| 5. | | | | Conducting demonstration on prevention of root grub in paddy | No severe problem was noticed, but proposal has been given during 2013-14 for the conduct of method demonstration on prevention of root grub in paddy in an area of (2 ha). |
| 6. | | | | Getting help from the Dept. of Watershed and women and Child Development in conduct of On and Off campus training programmes in the areas of dairy management and bakery | On and Off campus programmes are in progress in collaboration with Dept. of Watershed and the same will be followed in collaboration with Dept. of Women and child development |
| 7. | | | | Involving district and taluk level extension officers and workers in conducting field days of Front line demonstrations | The officials of line department are involved in FLD, OFT ,FFS, Krishi Uthasva, Exhibition and Krishi Andolan. |
| 8. | | | | Maintenance of register by SMS regarding field visits and diagnostic visits | All SMS are maintaining individual register regarding field visits and diagnostic visits |
| 9. | | | | Conduct of On campus training programme for extension officials of Haveri district | Due to non availability of training hall, trainings were not conducted and it will be implemented in forth coming days |
| 10. | | | | Creating awareness and conduct of demonstrations on newly released varieties by the Agricultural Universities | During 2012-13 FLD's were conducted and created awareness on newly released varieties of Groundnut (GPBD-4 & GPBD-5), Bengal gram ( JG-11 and BGD-103), ICM in Sunflower and small millets. Similarly awareness is also created for horizontal spread of the above varieties and technologies. |
| 11. | | | | Soil testing and informing the results to the sericulture farmers | One off and on campus trainings conducted and 4 soil sample tested in Chalageri village of Ranebennur taluk. |
| 12. | | | | Sending time table about conduct of On campus and Off campus training programmes of KVK to the Gram Panchayath's | Due to non availability of Training hostel it will be implemented during forth coming days |

| Sl. No. | Date | Number of Participants | No. of absentees | Salient Recommendations | Action taken |
|---|---|---|---|---|---|
| | | | | of Haveri district | |
| 13. | | | | Establishment of Farm mechanization centre to help the small land holders on rental basis | Under RKVY project on Farm machinery ARS, Mungod, Two seed cum fertilizer drills purchased and demonstrations conducted in KVK farm and farmers field of Kajjari and Maidur village to sow small millets, maize and groundnut crops. |
| 14. | | | | Creating awareness and conduct of demonstrations in the area of new fodder crops | Awareness created and demonstration conducted at Akkialur and near by villages. Small quantity of fodder slips and seeds are supplied to the farmers from KVK fodder bank. |
| 15. | | | | Sending of voice mail to the farming community | Voice mail services has been started from 11.01.2013 |
| 1. | **28.03.2013** | 26 | 05 | Conducting Frontline demonstration on paddy transplanter machine. | To be implemented |
| 2. | | | | Conducting On campus training on Inland fishery rearing and production technology as an additional entrepreneurial activity with the help of University scientists. | To be implemented |
| 3. | | | | Conducting On campus training on control of Root grub by using Metarzzium bio-agent for farmers and Extension functionaries | To be implemented |
| 4. | | | | Establishment of Custom hiring centre on Farm machineries by using University grant of 10 lakhs and provide service to farmers under Revolving fund | To be implemented |
| 5. | | | | Conducting seed production programme on oilseeds (GPBD-4 and GPBD 5) and pulses (BGD-103 and JG-11) under ICAR Revolving fund on priority basis | To be implemented |
| 6. | | | | Organizing training programmes on dairy and its value addition with the joint co-operation of Dept. of AV & H | To be implemented |
| 7. | | | | Organizing field days for all the FLD and OFT's | To be implemented |
| 8. | | | | Conduct of suitable programmes to on Boron deficiency, thrips management and purple leaf blotch in onion | To be implemented |
| 9. | | | | Conducting FLD on Aerobic Rice cultivation and maintenance of statistics regarding production and productivity | To be implemented |
| 10. | | | | Conducting demonstrations on Sugarcane trash management by using compost culture in Hangal and Haveri taluks of Haveri | To be implemented |

| Sl. No. | Date | Number of Participants | No. of absentees | Salient Recommendations | Action taken |
|---|---|---|---|---|---|
| | | | | district | |
| 11. | | | | Popularization of IFS in the district to increase farm productivity with giving more emphasis on Animal Husbandry and Agro Forestry methods | To be implemented |
| 12. | | | | Establishment of model sheep and goat stall feeding unit at KVK for the help of farming community | To be implemented |
| 13. | | | | Organizing On campus training on self employment for Rural youths and farm women | To be implemented |
| 14. | | | | Organizing farmers convention under frontline demonstration through field days and farmers to farmer based programmes | To be implemented |
| 15. | | | | Popularization of FFS concept to farmers with the use of AIR and TV programmes | To be implemented |
| 16. | | | | Establishment of fodder crop cafeteria and fodder bank at KVK | To be implemented |
| 17. | | | | Organizing programmes for establishment of kitchen garden and nutrient budgeting | To be implemented |
| 18. | | | | Regularization of KVK Newsletter | To be implemented |
| 19. | | | | Organizing programmes on moisture conservation technology in dry lands | To be implemented |
| 20. | | | | Organizing diagnostic training programmes for extension functionaries | To be implemented |
| 21. | | | | Popularization of transplanting technique in pigeon pea | To be implemented |
| 22. | | | | Organizing value addition training programmes on maize, cereals, small millets and other crops and creating awareness regarding geographical indicators and custodian farmers | To be implemented |

## PART II - DETAILS OF DISTRICT

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

| S. No | Farming system/enterprise |
|---|---|
| 1 | Maize, Cotton, Minor millets, Sorghum, Groundnut, Sunflower, Soybean, Bengalagram, Greengram, Banana, Manago,Sapota, Arcanut, Flowers crops , Dairy, Sheep, Goat, Poultry, Integrated farming system, Agri-silivi-horti-pasture etc., |

**2.2 Description of Agro-climatic Zone & major agro ecological situations**

| S. No | Agro-climatic Zone | Characteristics |
|---|---|---|
| 1 | Northern Transitional zone (Zone-8) & Hilly zone (Zone 9) | • Total geographical area is 4.85 lakh ha. Cultivated area is 3.86 lakh ha. of which 72,000 ha is irrigated (13.5%).<br>• Receives on an average 702 mm of rainfall annually mainly during June to October. The rainfall is received in two peaks (July & September).<br>• Land holding pattern of the district is < 1 ha (32,719), 1-2 ha (60,095), 2-4 ha (48,885), 2-10 ha (19,613) and > 10 ha (2,649). |

**2.3 Soil type**

| S. No | Soil type | Characteristics | Area in ha |
|---|---|---|---|
| 1 | Medium to deep black soils | Depth more than 4 ft<br>Fertile soils | 244310 |
| 2 | Red Sandy loam Soils | Depth 1 to 2 ft<br>Medium Fertile soils | 228340 |
| 3 | Red Shallow Soils | Depth less than 1 ft<br>Poor fertile soils | 21760 |

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

| S. No | Crop | Area (ha) | Production (Metric tons) | Productivity (kg /ha) |
|---|---|---|---|---|
| 1. | Maize | 139430 | 513503 | 3850 |
| 2. | Cotton | 73311 | 75000 | 1000 |
| 3. | Rice | 32842 | 101291 | 2050 |
| 4. | Groundnut | 18340 | 90000 | 5000 |
| 5. | Jowar | 8100 | 18225 | 2250 |
| 6. | Soybean | 7052 | 11200 | 2000 |
| 7. | Minor millets | 3925 | 2159 | 5500 |
| 8. | Sunflower | 2227 | 4400 | 2000 |
| 9. | Green gram | 2335 | 1144 | 4900 |
| 10. | Bengal gram | 4511 | 4328 | 683 |
| 11. | Sugarcane | 6857 | 675000 | 75 |
| 12. | Pigeon pea | 4500 | 4500 | 1000 |
| 13. | Banana | 800 | 20000 | 2400 |
| 14. | Onion | 1200 | 4800 | 4000 |

* JDA Office, Haveri

**2.5. Weather data**

| Month | * Rainfall (mm) | ** Temperature $^0$ C | | ** Relative Humidity (%) |
|---|---|---|---|---|
| | | Maximum | Minimum | |
| April -12 | 35 | 37 | 22 | 55.50 |
| May-12 | 75 | 36 | 22 | 60.00 |
| June-12 | 55 | 32 | 21 | 54.00 |
| July-12 | 46 | 30 | 21 | 75.50 |
| August-12 | 52 | 30 | 20 | 77.00 |
| September-12 | 132 | 30 | 20 | 56.50 |
| October-12 | 39 | 30 | 19 | 62.50 |
| November-21 | 158 | 29 | 18 | 65.00 |
| December-12 | 0 | 31 | 16 | 58.00 |
| January-13 | 0 | 32 | 16 | |
| February-13 | 0 | 33 | 18 | |
| March-13 | 0 | 36 | 20 | |

* JDA, Haveri, **www.accuwather.com

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

| Category | Population | Production | Productivity |
|---|---|---|---|
| **Cattle** | | | |
| *Crossbred* | 56747 | 24000 tones | 5.63 kg milk |
| *Indigenous* | 235402 | 26000 tones | 2.1 kg milk |
| **Buffalo** | 113847 | 32000 tones | Meat 95 kg/animal<br>2.5 kg /animal/day |
| **Sheep** | | | |
| Crossbred | 282 | 287 tones | Meat 14.63 kg/animal |
| *Indigenous* | 317902 | | |
| **Goats** | 150650 | 158 tones | Meat 14.24 kg/animal |
| **Pigs** | | | Meat 62.5 kg/animal |
| *Crossbred* | - | - | |
| *Indigenous* | 6827 | 2 tones | |
| **Rabbits** | 250 | | |
| **Poultry** | | | |
| Hens | 698296 | Eggs 436 lakh<br>Meat 247 tones | Egg 238 /bird/year<br>Egg 97 /Desi bird/year |
| **Category** | **Area** | **Production** | **Productivity** |
| Fish | 5605 ha WSA | 6581.6 metric tone/ 4000ha | 1.6 metric tone/ha |

**Source:** 18th Live stock censes , Department of Animal Husbandry , district Haveri

**2.7 District profile has been Updated for 2012-13 Yes**

**2.8 Details of Operational area / Villages**

| Sl. No. | Taluk | Name of the block | Name of the village | How long the village is covered under operational area of the KVK | Major crops & enterprises | Major problem identified | Identified Thrust Areas |
|---|---|---|---|---|---|---|---|
| 1. | Byadgi | Byadgi | Ramagondana halli | 01 | Chilli | Root disease | Assessment of bioagents in chilli |
| 2. | Byadgi | Byadgi | Shidenur | 01 | Banana | Low yield due to reduced bunch size and stunted growth; Leaf spot | Popularization of Banana special and Management of leaf spot disease in Banana |
| 3. | Hangal | Akkialur | Akkialur | 01 | Fodder | Scarcity of fodder | Establishment of fodder bank (Fodder sorghum COFS-29, Lucere, Co3, Cow pea) |
| 4. | Hangal | Akkialur | Akkialur | 01 | Livestock | • Increased post calving period<br>• Decreased conception rate | Supplementation of by-pass FAT in post calving dairy cows |
| 5. | Hangal | Akkialur | Akkialur | 01 | Envirofit chula | Drudgery involved in cooking | Fuel efficiency& drudgery reduction |
| 6. | Hangal | Akkialur | Akkialur | 01 | Poultry | High Morbidity & mortality rate | TANUVAS- Oral pellet vaccine to control ranikhet diseases in broilers |
| 7. | Haveri | Guttal | Hulasogi Marola Kammanahalli | 01 | Little millet | • Low yield<br>• Local varieties | Popularization of Sukshema variety of little millet |
| 8. | Haveri | Guttal | Marol | 01 | Foxtail millet | • Low yield<br>• Local varieties | Popularization of HMT-100-1variety of foxtail millet |
| 9. | Haveri | Haveri | Devihosur | 01 | Chilli | Root disease | Assessment of bioagents in chilli |
| 10. | Ranebennur | Ranebennur | Erekuppe Hediyala Gangajalathanda | 01 | Maize | • Zinc deficiency<br>• Unscientific fertilizer application | Soil testing and Nutrient management |
| 11. | Ranebennur | Ranebennur | Kajjari | 01 | Cotton | Mirid bug, Shoot weevil, early sucking pests | Management of sucking pests in cotton |
| 12. | Ranebennur | Ranebennur | Kajjari | 01 | Onion | Purple leaf blotch | Management of purple leaf blotch disease |
| 13. | Ranebennur | Ranebennur | Kallapura Hediyala | 01 | Paddy | Scarcity of water | Aerobic rice cultivation |
| 14. | Ranebennur | Ranebennur | Hiremallur | 01 | Foxtail millet | • Low yield<br>• Local varieties | Popularization of HMT-100-1variety of foxtail millet |
| 15. | Ranebennur | Ranebennur | Mydur | 01 | Groundnut | • Lack of awareness on improved varieties | Popularization of groundnut variety GPBD-4 |
| 16. | Ranebennur | Ranebennur | Hediyal Basapura Bhooveerapura | 01 | Maize | Shortage of fodder due to shift in cropping pattern | Assessment of stay green type of maize hybrid NAH-1137 |

| Sl. No. | Taluk | Name of the block | Name of the village | How long the village is covered under operational area of the KVK | Major crops & enterprises | Major problem identified | Identified Thrust Areas |
|---|---|---|---|---|---|---|---|
| 17. | Ranebennur | Ranebennur | Magod | 01 | Groundnut | Lack of awareness on improved varieties | Popularization of groundnut varieties GPBD-4 &GPBD-5 |
| 18. | Savanur | Savanur | Bevinahalli | 01 | Maize | • Zinc deficiency<br>• Unscientific fertilizer application | Soil testing and Nutrient management |
| 19. | Savanur | Savanur | Kadakol | 01 | Sunflower | • Lack of awareness on new hybrids<br>• Micro nutrient deficiency | Integrated crop management in sunflower hybrid KBSH-53 |
| 20. | Savanur | Savanur | Kadakol | 01 | Foxtail millet | • Low yield<br>• Local varieties | Popularization of HMT-100-1variety of foxtail millet |
| 21. | Shiggaon | Shiggaon | Chakapur Chikkanelur Basapura | 01 | Maize | • Zinc deficiency<br>• Unscientific fertilizer application | Soil testing and Nutrient management |
| 22. | Shiggaon | Shiggaon | Kundur Guddadchanapura | 01 | Bengalgram | Lack of awareness on improved varieties | Introduction and popularization of Bengalgram varieties BGD-103 and JG-11 |
| 23. | Shiggaon | Shiggaon | Torur Kundur | 01 | Tomato | Use of low yielding varieties | Introduction of DMT-2 |
| 24. | Shiggaon | Shiggaon | Guddachannapur Basapura Chakkapur | 01 | Soybean | Lack of awareness on improved varieties | Popularization of soybean varieties DSb-21 and JS-9305 |
| 25. | Shiggaon | Shiggaon | Bisnalli | 01 | Cotton | Mirid bug, Shoot weevil, early sucking pests | Management of sucking pests in cotton |
| 26. | Shiggaon | Shiggaon | Chikkanellur | 01 | Foxtail millet | • Low yield<br>• Local varieties | Popularization of HMT-100-1variety of foxtail millet |
| 27. | Shiggaon | Banakapura | Chakapura | 01 | Pigeon pea | Lack awareness on new varieties | Integrated crop management of Pigeon pea var. TS-3R |

**2.9 Priority thrust areas**

| S. No | Thrust area |
|---|---|
| 1. | Management of sucking pests in Cotton |
| 2. | Soil testing and Nutrient management in Maize |
| 3. | Soil testing and Nutrient management in Cotton |
| 4. | Popularization of high yielding varieties of Groundnut |
| 5. | Popularization of high yielding varieties of small millet |
| 6. | Integrated crop management in Sunflower |
| 7. | Integrated crop management in Bengal gram |
| 8. | Integrated crop management in Pigeon pea |
| 9. | Integrated crop management in Soybean |
| 10. | Rainwater harvesting |
| 11. | Establishment of fodder bank |
| 12. | Fuel efficiency& drudgery reduction |
| 13. | Disease management in chilli |
| 14. | Nutrient and disease management in Banana |
| 15. | Control ranikhet disease in broilers |
| 16. | Management of diseases in Onion |
| 17. | Aerobic rice cultivation |
| 18. | Introduction of high yielding variety of Tomato |

## 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 |
| 02 | 02 | 15 | 12 | 18 | 18 | 283 | 236 |

| Training | | | | Extension Programmes | | | |
|---|---|---|---|---|---|---|---|
| 3 | | | | 4 | | | |
| Number of Courses | | Number of Participants | | Number of Programmes | | Number of participants | |
| Targets | Achievement | Targets | Achievement | Targets | Achievement | Targets | Achievement |
| 130 | 112 | 3800 | 7537 | 1402 | 504 | 6252 | 5991 |

| Seed Production (Qtl.) | | Planting materials (Nos.) | |
|---|---|---|---|
| 5 | | 6 | |
| Target | Achievement | Target | Achievement |
| 75 | 55.165 | 5000 | 6338 |

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

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

| S. No | Thrust area | Crop/ Enterprise | Identified Problem | Interventions | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Title of OFT | Title of FLD | Number of Training (farmers) | Number of Training (Youths) | Number of Training (extension personnel) | Extension activities (No.) | Supply of seeds (Qtl.) | Supply of planting materials (No.) | Supply of livestock (No.) | Supply of bio products | |
| | | | | | | | | | | | | | No. | Kg |
| 1. | IDM | Chilli | Root disease | Assessment of bio agents in chilli | - | 02 | 00 | 00 | 00 | - | - | - | Neem cake | 400 |
| | | | | | | | | | | | | | *Trichoderma* | 5 |
| 2. | Drudgery reduction | Drudgery | Fuel efficiency & drudgery reduction | Assessment of Fuel efficient eco friendly chulhas | - | 01 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 3. | Problematic Soil Management | Maize | Low yield due to unscientific fertilizer application | - | Soil test based nutrient management in maize | 01 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 4. | Hybrid Introduction | Maize | Shortage of fodder due to shift in cropping pattern | - | Introduction of stay green type of maize hybrid Hema (NAH-1137) for dual purpose | 02 | 00 | 01 | 00 | 0.72 | 00 | 00 | 00 | 00 |
| 5. | Variety introduction | Little millet | • Low yield<br>• Local varieties | - | Popularization of Sukshema variety of little millet | 01 | 00 | 00 | 00 | 0.48 | 00 | 00 | 00 | 00 |
| 6. | Variety introduction | Foxtail millet | • Low yield<br>• Local varieties | - | Popularization of HMT-100-1variety of foxtail millet | 01 | 00 | 00 | 00 | 0.71 | 00 | 00 | 00 | 00 |
| 7. | Irrigation management | Paddy | Scarcity of water | - | Aerobic rice cultivation | 01 | 00 | 01 | 00 | 0.3 | 00 | 00 | 00 | 00 |
| 8. | Variety introduction | Groundnut (*Kharif*) | • Lack of awareness on improved varieties<br>• Drudgery | - | • Popularization of groundnut variety GPBD-4 and GPBD-5<br>• Groundnut | 02 | 01 | 00 | 01 | 9 (pods) | 00 | 00 | 00 | 00 |

| S. No | Thrust area | Crop/ Enterprise | Identified Problem | Interventions | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Title of OFT | Title of FLD | Number of Training (farmers) | Number of Training (Youths) | Number of Training (extension personnel) | Extension activities (No.) | Supply of seeds (Qtl.) | Supply of planting materials (No.) | Supply of livestock (No.) | Supply of bio products | |
| | | | | | | | | | | | | | No. | Kg |
| | | | reduction<br>• Scarcity of labour | | stripper<br>• Seed production. | | | | | | | | | |
| 9. | Variety introduction | Groundnut (*Rabi*) | • Lack of awareness on improved varieties<br>• Drudgery reduction<br>• Scarcity of labour | - | • Popularization of groundnut varieties GPBD-4 and GPBD-5<br>• Groundnut stripper<br>• Seed production. | 03 | 00 | 01 | 02 | 5(pods) | - | - | *Trichoderma*<br>*Rhizobium* | 2.5<br>2.5 |
| 10. | Variety introduction | Soybean | • Lack of awareness on improved varieties | - | Introduction of soybean varieties DSb-21and JS-9305 | 01 | 01 | 01 | 01 | 5.4 | 00 | 00 | 00 | 00 |
| 11. | ICM | Sunflower (*Rabi*) | • Lack of awareness on new hybrids<br>• Micro nutrient deficiency | - | Integrated crop management in sunflower hybrid | 01 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 12. | Variety Introduction | Pigeon pea | Lack awareness on new varieties | - | Introduction of red gram var. TS-3R | 01 | 00 | 00 | 00 | 0.75 | 00 | 00 | 00 | 00 |
| 13. | Variety Introduction | Bengal gram | Lack of awareness on improved variety | - | • Introduction & Popularization of Bengal gram var. BGD-103 & JG-11<br>• Seed production. | 06 | - | 2 | 03 | 03 | - | - | *Trichoderma* | 3 |
| 14. | IPM | Cotton | Mirid bug, Shoot weevil, early sucking pests | - | Management of sucking pests in cotton | 02 | 00 | 01 | 00 | 00 | 00 | 00 | 00 | 00 |

| S. No | Thrust area | Crop/ Enterprise | Identified Problem | Interventions | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Title of OFT | Title of FLD | Number of Training (farmers) | Number of Training (Youths) | Number of Training (extension personnel) | Extension activities (No.) | Supply of seeds (Qtl.) | Supply of planting materials (No.) | Supply of livestock (No.) | Supply of bio products | |
| | | | | | | | | | | | | | No. | Kg |
| 15. | ICM | Banana | Low yield due to reduced bunch size and stunted growth; Leaf spot | - | Popularization of Banana special and Management of leaf spot disease in Banana | 02 | 00 | 01 | 0 | 0 | 0 | 0 | *Bacillus* | 10 |
| | | | | | | | | | | | | | *Pseudo monas* | 10 |
| 16. | IDM | Onion | Purple leaf blotch | - | Management of purple leaf blotch disease | 01 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17. | Hybrid Introduction | Tomato | Use of low yielding varieties | - | Introduction of Tomato hybrid DMT-2 | 01 | 00 | 00 | 00 | 0.0025 | 00 | 00 | 00 | 00 |
| 18. | Fodder crops | Fodder | Scarcity of fodder | - | Popularization of fodder varieties | 02 | 02 | 00 | 00 | 00 | 500 | 00 | 00 | 00 |
| 19. | Poultry | Livestock | • High Morbidity & mortality rate | - | TANUVAS- Oral pellet vaccine to control ranikhet diseases in broilers | 01 | 01 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 20. | Dairy Cow | Livestock | • Increased post calving period<br>• Decreased conception rate | - | Supplementation of by-pass FAT in post calving dairy cows | 02 | 02 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |

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

| S. No | Title of Technology | Source of technology | Crop/enterprise | No. of programmes conducted | | | |
|---|---|---|---|---|---|---|---|
| | | | | OFT | FLD | Training | Others (Specify) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1. | Assessment of bioagents in chilli | UHS, Bagalakot | Chilli | 10 | - | 03 | - |
| 2. | Assessment of Fuel efficient eco friendly chulas | Colarado University, USA | Drudgery | 12 | - | 01 | - |
| 3. | Soil test based nutrient management in maize | UAS, Dharwad | Maize | - | 16 | 01 | - |
| 4. | Introduction of stay green type of maize hybrid Hema (NAH-1137) for dual purpose | UAS, Bangalore | Maize | - | 12 | 03 | - |
| 5. | Popularization of Sukshema variety of little millet | UAS, Dharwad | Little millet | - | 12 | 01 | - |
| 6. | Popularization of HMT-100-1variety of foxtail millet | UAS, Dharwad | Foxtail millet | - | 26 | 01 | - |
| 7. | Aerobic rice cultivation | UAS, Bangalore | Paddy | - | 07 | 02 | - |
| 8. | • Popularization of groundnut varieties GPBD-4 & GPBD-5<br>• Groundnut stripper<br>• Seed production. | UAS, Dharwad | Groundnut (*Kharif*) | - | 20 | 04 | - |
| 9. | • Popularization of groundnut variety GPBD-4 & GPBD-5<br>• Groundnut stripper<br>• Seed production. | UAS, Dharwad | Groundnut (*Rabi*) | - | 10 | 04 | Method demonstration-02 |
| 10. | • Introduction of soybean variety DSb-21and JG-9305<br>• Seed production. | UAS, Dharwad | Soybean | - | 20 | 03 | Method demonstration-01 |
| 11. | Integrated crop management in sunflower hybrid | UAS, Bangalore | Sunflower (*Rabi*) | - | 10 | 01 | 1 |
| 12. | Introduction of Pigeon pea var. TS-3R | UAS, Dharwad | Pigeon pea | - | 25 | 01 | - |
| 13. | • Introduction of Bengal gram var. BGD-103 & JG-11<br>• Seed production. | UAS, Dharwad | Bengalgram | - | 12 | 08 | Method demonstration-03 |
| 14. | Management of sucking pests in cotton | UAS, Dharwad | Cotton | - | 12 | 02 | - |
| 15. | Popularization of Banana special and Management of leaf spot disease in Banana | IIHR, Bangalore and KVK, Davanagere | Banana | - | 10 | 02 | - |
| 16. | Management of purple leaf blotch disease | UAS, Dharwad | Onion | - | 12 | 02 | - |
| 17. | Introduction of DMT-2 | UAS, Dharwad | Tomato | - | 05 | 01 | - |
| 18. | Popularization of fodder varieties | UAS, Dharwad | Fodder | - | 20 | 04 | - |
| 19. | TANUVAS- Oral pellet vaccine to control ranikhet diseases in broilers | TANUVAS Chennai | Livestock | - | 02 | 02 | - |
| 20. | Supplementation of by-pass FAT in post calving dairy cows | NIANP Bangalore | Livestock | - | 05 | 04 | - |

**3.B2 contd..**

| Sl. No. | No. of farmers covered | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OFT | | | | FLD | | | | Training | | | | Others (Specify) | | | |
| | General | | SC/ST | | General | | SC/ST | | General | | SC/ST | | General | | SC/ST | |
| | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1. | 05 | 02 | 01 | 01 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 2. | 00 | 12 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 10 | 00 | 00 | 00 | 00 |
| 3. | - | - | - | - | 12 | 00 | 04 | 00 | 15 | 02 | 03 | 03 | 00 | 00 | 00 | 00 |
| 4. | - | - | - | - | 08 | 00 | 02 | 02 | 23 | 12 | 17 | 10 | 00 | 00 | 00 | 00 |
| 5. | - | - | - | - | 09 | 03 | 00 | 00 | 18 | 05 | 04 | 00 | 00 | 00 | 00 | 00 |
| 6. | - | - | - | - | 20 | 06 | 00 | 00 | 19 | 00 | 03 | 00 | 00 | 00 | 00 | 00 |
| 7. | - | - | - | - | 05 | 02 | 00 | 00 | 15 | 05 | 08 | 05 | 00 | 00 | 00 | 00 |
| 8. | - | - | - | - | 15 | 03 | 01 | 01 | 20 | 15 | 12 | 05 | 00 | 00 | 00 | 00 |
| 9. | - | - | - | - | 10 | 00 | 00 | 00 | 70 | 8 | 63 | 2 | 00 | 00 | 00 | 00 |
| 10. | - | - | - | - | 15 | 03 | 01 | 01 | 35 | 12 | 15 | 18 | 00 | 00 | 00 | 00 |
| 11. | - | - | - | - | 09 | 00 | 01 | 00 | 150 | 00 | 02 | 00 | 00 | 00 | 00 | 00 |
| 12. | - | - | - | - | 21 | 00 | 03 | 01 | 25 | 0 | 5 | 0 | 00 | 00 | 00 | 00 |
| 13. | - | - | - | - | 12 | 00 | 00 | 00 | 60 | 0 | 70 | 08 | 00 | 00 | 00 | 00 |
| 14. | - | - | - | - | 12 | 00 | 00 | 00 | 13 | 10 | 07 | 11 | 00 | 00 | 00 | 00 |
| 15. | - | - | - | - | 8 | 00 | 02 | 00 | 8 | 0 | 2 | 0 | 00 | 00 | 00 | 00 |
| 16. | - | - | - | - | 10 | 02 | 00 | 00 | 19 | 2 | 5 | 4 | 00 | 00 | 00 | 00 |
| 17. | - | - | - | - | 05 | 00 | 00 | 00 | 12 | 2 | 3 | 2 | 00 | 00 | 00 | 00 |
| 18. | - | - | - | - | 20 | 00 | 00 | 0 | 31 | 0 | 05 | 0 | 00 | 00 | 00 | 00 |
| 19. | - | - | - | - | 15 | 05 | 00 | 0 | 15 | 10 | 0 | 0 | 00 | 00 | 00 | 00 |
| 20. | - | - | - | - | 05 | 00 | 00 | 0 | 20 | 0 | 0 | 0 | 00 | 00 | 00 | 00 |

## PART IV - On Farm Trial

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

| Thematic areas | Vegetables | Others | TOTAL |
|---|---|---|---|
| Integrated Disease Management | 01 | - | 01 |
| Drudgery Reduction | - | 01 | 01 |
| **Total** | **01** | **01** | **02** |

**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 -Nil**

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

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

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

| Thematic areas | Crop | Name of the technology assessed | No. of trials | Number of farmers | Area in ha |
|---|---|---|---|---|---|
| Integrated Disease Management | Chilli | Assessment of bioagents in chilli | 10 | 10 | 2.5 |
| Drudgery Reduction | - | Assessment of Fuel efficient eco friendly chulas | 5 | 12 | - |
| **Total** | | | **15** | **22** | |

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

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

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

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

**Results of On Farm Trial**

| Crop/ enterprise | Farming situation | Problem definition | Title of OFT | No. of trials | Technology Assessed | Parameters of assessment | Data on the parameter | | Results of assessment | Feedback from the farmer | Any refinement needed | Justification for refinement |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 9 | 10 | 11 | 12 |
| Chilli | Rainfed | Root disease | Assessment of bio agents in chilli | 10 | COC – 0.3% | • % Disease<br>• Yield | **% disease** | **Yield (q/ha)** | Effective control of root diseases of chilli | By adopting the improved technology of organic nature root disease can be effectively control | No | - |
| | | | | | Carbendazim-0.2% | | 7.1 | 50.8 | | | | |
| | | | | | Soil application of neem cake @ 2.5 q/ha. Two-three times drenching of Trichoderma @ 10g/l + Pseudomonas @ 10g/l soon after the incidence of disease. | | 2.8 | 60.5 | | | | |
| | | | | | | | 1.2 | 69.6 | | | | |
| Drudgery | - | Fuel efficiency & drudgery reduction | Assessment of Fuel efficient eco friendly chulas | 05 | | • Fuel efficiency<br>• Cooking time | **Fuel required (Gm)** | **Cooking time (1 kg rice)** | Envirofit & selco model gave on par results & proved fuel efficient | By using enfirofit & selco fuel efficiency can be made & cooking is fast. In sampada gasifier stove it is difficult to control the flame. | - | - |
| | | | | | Traditional | | 670 | 43 | | | | |
| | | | | | Envirofit Chula | | 250 | 22 | | | | |
| | | | | | Selco Chula | | 260 | 23 | | | | |
| | | | | | Sampada Gasifier stove | | 500 | 30 | | | | |

**Contd..**

| Crop | Technology Assessed | Source of Technology | Production | Unit | Net Return (Profit) in Rs. / unit | BC Ratio |
|---|---|---|---|---|---|---|
| | 13 | 14 | 15 | 16 | 17 | 18 |
| Chilli | **Farmer's practice :** COC – 0.3% | - | 50.8 | q/ha | 58354 | 3.5:1 |
| | **Technology Option 1 :** Carbendazim-0.2% | UAS Dharwad | 60.5 | q/ha | 72827 | 4.0:1 |
| | **Technology Option 2 :** Soil application of neem cake @ 2.5 q/ha. Two-three times drenching of Trichoderma @ 10g/l + Pseudomonas @ 10g/l soon after the incidence of disease. | UHS Bagalakote | 69.6 | q/ha | 85236 | 4.3:1 |
| Drudgery | **Farmer's practice :** Traditional | - | - | - | - | - |
| | **Technology Option 1** : Envirofit Chula | Colarado University, USA | - | - | - | - |
| | **Technology Option 2 :** Selco Chula | Selco, Bengaluru | - | - | - | - |
| | **Technology Option 3 :** Sampada Gasifier stove | Samuchit Enviro Tech Pvt Ltd, Pune | - | - | - | - |

**4.C2. Details of each On Farm Trial for assessment**

**1.**

| | | | |
|---|---|---|---|
| 1 | Title of Technology Assessed | : | Assessment of bioagents in chilli |
| 2 | Problem Definition | : | Root disease |
| 3 | Details of technologies selected for assessment | : | $T_1$ COC – 0.3% |
| | | : | $T_2$ Carbendazim-0.2% |
| | | : | $T_3$ Soil application of neem cake @ 2.5 q/ha. Two-three times drenching of Trichoderma @ 10g/l + Pseudomonas @ 10g/l soon after the incidence of disease. |
| 4 | Source of technology | : | UHS, Bagalkot |
| 5 | Production system and thematic area | : | Integrated Disease Management |
| 6 | Performance of the Technology with performance indicators | : | Better response of technology with good control of root disease in chilli |
| 7. | Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques | : | Good response by the farmers that the technology can control the disease effectively |
| 8 | Final recommendation for micro level situation | : | Soil application of neem cake @ 2.5 q/ha. Two-three times drenching of Trichoderma @ 10g/l + Pseudomonas @ 10g/l soon after the incidence of disease. |
| 9 | Constraints identified and feedback for research | : | Nil |
| 10 | Process of farmers participation and their reaction | : | Good response from farmers & convinced that the improved technology can control root diseases in chilli |

**2.**

| | | | |
|---|---|---|---|
| 1 | Title of Technology Assessed | : | Assessment of Fuel efficient eco friendly chulas |
| 2 | Problem Definition | : | Fuel efficiency & drudgery reduction |
| 3 | Details of technologies selected for assessment | : | $T_1$ Traditional |
| | | : | $T_2$ Envirofit Chula |
| | | : | $T_3$ Selco Chula |
| | | : | $T_4$ Sampada Gasifier stove |
| 4 | Source of technology | : | Colarado University, USA |
| 5 | Production system and thematic area | : | Drudgery reduction technology |
| 6 | Performance of the Technology with performance indicators | : | Envirofit & selco model gave on par results & proved fuel efficient |
| 7. | Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques | : | By using enfirofit & selco fuel efficiency can be made & cooking is fast. In sampada gasifier stove it is difficult to control the flame |
| 8 | Final recommendation for micro level situation | : | Envirofit & selco model gave good result. |
| 9 | Constraints identified and feedback for research | : | Sampada gasifier stove it is difficult to control the flame |
| 10 | Process of farmers participation and their reaction | : | Farm women are happy to know about the technology |

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

## PART V - FRONTLINE DEMONSTRATIONS

**5.A. Summary of FLDs implemented during 2012-13**

| Sl. No. | Category | Farming Situation | Season and Year | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Area (ha) | | No. of farmers/ demonstration | | | Reasons for shortfall in achievement |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Proposed | Actual | SC/ST | Others | Total | |
| 1. | Oilseeds | Rainfed | Kharif 2012-13 | Groundnut | GPBD-4 & GPBD- 5 | - | Variety introduction | • Popularization of groundnut variety GPBD-4 & GPBD- 5<br>• Groundnut stripper<br>• Seed production. | 10 | 10 | 01 | 19 | 20 | |
| 2. | Oilseeds | Irrigated | Rabi 2012-13 | Groundnut | GPBD-4& GPBD-5 | - | Variety introduction | • Popularization of groundnut variety GPBD-4 & GPBD-5Groundnut stripper<br>• Seed production. | 04 | 04 | 00 | 10 | 10 | |
| 3. | Oilseeds | Rainfed | Kharif 2012-13 | Soybean | DSb-21 & JS-9305 | - | Variety introduction | New soybean varieties DSb-21and JS-9305 | 10 | 08 | 02 | 18 | 20 | Cost of critical inputs increased |
| 4. | Oilseeds | Rainfed | Rabi 2012-13 | Sunflower | - | KBSH-53 | ICM | • Integrated crop management in sunflower hybrid | 05 | 05 | 4 | 6 | 10 | |
| 5. | Pulses | Rainfed | Kharif 2012-13 | Pigeon pea | TS-3R | - | Variety introduction | • Introduction of Pigeon pea var. TS-3R | 10 | 10 | 0 | 25 | 25 | |
| 6. | Pulses | Rainfed | Rabi 2012-13 | Bengalgram | BGD-103 & JG-11 | - | Variety introduction | • Introduction & popularization of Bengalgram var. BGD-103 & JG-11<br>• Seed production. | 05 | 05 | 00 | 12 | 12 | |
| 7. | Cereals | Rainfed | Kharif 2012 | Maize | CP818 | - | Nutrient management | Soil test based nutrient management in maize | 10 | 6.4 | 4 | 12 | 16 | |
| 8. | Cereals | Rainfed | Kharif 2012 | Maize | - | Hema NAH-1137 | Hybrid introduction | Stay green type of maize hybrid Hema (NAH-1137) for dual purpose | 05 | 05 | 04 | 08 | 12 | |
| 9. | Cereals | Rainfed | Kharif 2012 | Paddy | MAS-26 | - | Water management | Aerobic rice cultivation | 02 | 02 | 00 | 07 | 07 | |

| Sl. No. | Category | Farming Situation | Season and Year | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Area (ha) | | No. of farmers/ demonstration | | | Reasons for shortfall in achievement |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Proposed | Actual | SC/ST | Others | Total | |
| 10. | Millets | Rainfed | Rabi 2012 | Little millet | Sukshema | - | Variety introduction | Sukshema variety of little millet | 05 | 05 | 00 | 12 | 12 | |
| 11. | Millets | Rainfed | Rabi 2012 | Foxtail millet | HMT-100-1 | - | Variety introduction | HMT-100-1 variety of foxtail millet | 10 | 10 | 00 | 26 | 26 | |
| 12. | Vegetables | Rainfed | Kharif 2012-13 | Onion | Bellary red | - | IDM | Management of purple leaf blotch disease | 05 | 05 | 00 | 12 | 12 | |
| 13. | Vegetables | Rainfed | Kharif 2012-13 | Tomato | - | DMT-2 | Hybrid introduction | New tomato hybrid DMT-2 | 02 | 02 | 00 | 05 | 05 | |
| 14. | Fruit | Rainfed | Kharif 2012-13 | Banana | G-9 | - | ICM | Popularization of Banana special and Management of leaf spot disease in Banana | 04 | 04 | 02 | 08 | 10 | |
| 15. | Commercial | Rainfed | Kharif 2012-13 | Cotton | - | Bt-Cotton | IPM | Management of sucking pests in cotton | 05 | 05 | 00 | 12 | 12 | |
| 16. | Fodder | Rainfed | Kharif 2012-13 | Fodder | CoFS-29 Co3 Cowpea Lucrene | - | Fodder crops | Popularization of fodder varieties | 04 | 04 | 05 | 15 | 20 | |
| 17. | Dairy | - | Kharif 2012 | Dairy | - | - | Dairy cow | Supplementation of by-pass FAT in post calving dairy cows | 05 | 05 | - | - | - | |
| 18. | Poultry | - | Kharif 2012 | Poultry | - | - | Poultry | TANUVAS- Oral pellet vaccine to control ranikhet diseases in broilers | 02 | 02 | - | - | - | |

**5.A. 1. Soil fertility status of FLDs plots during 2012-13**

| Sl. No. | Category | Farming Situation | Season and Year | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Season and year | Status of soil (kg/ha) | | | Previous crop grown |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | N | P | K | |
| 1. | Oilseeds | Rainfed | Kharif 2012-13 | Groundnut | GPBD-4 & GPBD- 5 | - | Variety Introduction | • Popularization of groundnut varieties GPBD-4 & GPBD- 5<br>• Groundnut stripper<br>• Seed production. | Kharif 2012-13 | NA | NA | NA | Rabi Sorghum |
| 2. | Oilseeds | Irrigated | Rabi 2012-13 | Groundnut | GPBD-4 & GPBD- 5 | - | Variety Introduction | • Popularization of groundnut variety GPBD-4 & GPBD- 5<br>• Groundnut stripper<br>• Seed production. | Rabi 2012-13 | NA | NA | NA | Maize |
| 3. | Oilseeds | Rainfed | Kharif 2012-13 | Soybean | DSb-21 & JS-9305 | - | Variety Introduction | • New soybean varieties DSb-21and JS-9305 | Kharif 2012-13 | NA | NA | NA | Cotton, Groundnut, Jowar |
| 4. | Oilseeds | Rainfed | Rabi 2012-13 | Sunflower | KBSH-53 | - | ICM | • Integrated crop management in sunflower hybrid | Rabi 2012-13 | 248 | 18.6 | 300 | Maize |
| 5. | Pulses | Rainfed | Kharif 2012-13 | Pigeon pea | TS-3R | - | Variety Introduction | • Introduction of Pigeon pea var. TS-3R | Kharif 2012-13 | 130 | 26.5 | 310 | - |
| | | | | | | | | | | 100 | 12.6 | 150 | - |
| 6. | Pulses | Rainfed | Rabi 2012-13 | Bengal gram | BGD-103 & JG-11 | - | Variety Introduction | • Introduction and popularization of Bengal gram var. BGD-103& JG-11<br>• Seed production. | Rabi 2012-13 | NA | NA | NA | Groundnut Maize Soybean |
| 7. | Cereals | Rainfed | Kharif 2012-13 | Maize | CP818 | - | Nutrient management | • Soil test based nutrient management in maize | Kharif 2012-13 | 126 | 28.2 | 326 | Cotton Groundnut Maize |
| | | | | | | | | | | 95 | 12.5 | 135 | |
| 8. | Cereals | Rainfed | Kharif 2012-13 | Maize | - | Hema NAH-1137 | Hybrid introduction | Stay green type of maize hybrid Hema (NAH-1137) for dual purpose | Kharif 2012-13 | NA | NA | NA | Cotton Groundnut Maize |
| 9. | Cereals | Rainfed | Kharif 2012-13 | Paddy | MAS-26 | - | Irrigation management | Aerobic rice cultivation | Kharif 2012 | NA | NA | NA | Maize |
| 10. | Millets | Rainfed | Rabi 2012-13 | Little millet | Sukshema | - | Variety Introduction | Sukshema variety of little millet | Rabi 2012 | NA | NA | NA | Maize Marigold Soybean |

| Sl. No. | Category | Farming Situation | Season and Year | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Season and year | Status of soil (kg/ha) | | | Previous crop grown |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | N | P | K | |
| 11. | Millets | Rainfed | Rabi 2012-1 | Foxtail millet | HMT-100-1 | - | Variety Introduction | HMT-100-1 variety of foxtail millet | Rabi 2012 | NA | NA | NA | Maize Marigold Soybean |
| 12. | Vegetables | Rainfed | Kharif 2012-13 | Onion | Bellary red | - | IDM | Management of purple leaf blotch disease | Kharif 2012-13 | NA | NA | NA | Cotton Gralic Maize |
| 13. | Vegetables | Rainfed | Kharif 2012-13 | Tomato | - | DMT-2 | Hybrid Introduction | New tomato variety DMT-2 | Kharif 2012-13 | NA | NA | NA | Maize |
| 14. | Fruit | Rainfed | Kharif 2012-13 | Banana | G-9 | - | ICM | Popularization of Banana special and Management of leaf spot disease in Banana | Kharif 2012-13 | 295 | 30 | 356 | Banana |
| 15. | Commercial | Rainfed | Kharif 2012-13 | Cotton | - | Bt-Cotton | IPM | Management of sucking pests in cotton | Kharif 2012-13 | NA | NA | NA | Cotton Maize |
| 16. | Fodder | Rainfed | Kharif 2012-13 | Fodder | | | Fodder crops | Popularization of fodder varieties | Kharif 2012-13 | NA | NA | NA | Groundnut Paddy Maize |

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

**5.B.1. Crops**

| Crop | Name of the technology demonstrated | Variety | Hybrid | Farming situation | No. of Demo. | Area (ha) | Yield (q/ha) | | | | % Increase | Economics of demonstration (Rs./ha) | | | | Economics of check (Rs./ha) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Demo | | | Check | | Gross Cost | Gross Return | Net Return | BCR | Gross Cost | Gross Return | Net Return | BCR |
| | | | | | | | H | L | A | | | | | | | | | | |
| **Oilseeds** | | | | | | | | | | | | | | | | | | | |
| Groundnut | • Popularization of groundnut varieties GPBD-4 & GPBD-5<br>• Groundnut stripper<br>• Seed production. | GPBD-4 | - | Rainfed | 07 | 03 | 19 | 15 | 18 | 14.5 | 24 | 34150 | 117000 | 82850 | 3.40 | 33100 | 94250 | 61150 | 2.85 |
| | | GPBD- 5 | | | 13 | 08 | 21.50 | 17.5 | 20.2 | 14.5 | 41 | 34150 | 133250 | 99100 | 3.90 | 33100 | 94250 | 61150 | 2.85 |
| Groundnut | • Popularization of groundnut varieties GPBD-4 & GPBD-5<br>• Groundnut stripper<br>• Seed production. | GPBD-4 | - | Irrigated | 2 | 0.8 | 22.50 | 17.50 | 20 | 14.13 | 41.5 | 30250 | 76000 | 45750 | 2.50 | 30250 | 53692 | 23444 | 1.77 |
| | | GPBD- 5 | | | 8 | 3.2 | 18.0 | 12.00 | 15.66 | 11.54 | 35.70 | 30250 | 59508 | 29258 | 1.96 | 30250 | 43852 | 13602 | 1.45 |
| Soybean | New varieties of soybean | Dsb-21 | - | Rainfed | 12 | 4.8 | 12.5 | 5.4 | 8.40 | 7.30 | 15 | 11250 | 15120 | 3870 | 1.34 | 11250 | 13140 | 1890 | 1.17 |
| | | JS-9305 | - | | 08 | 3.2 | 10.0 | 5.0 | 7.50 | 6.30 | 19 | 11250 | 13500 | 2250 | 1.20 | 11250 | 11340 | 90 | 1.01 |
| Sunflower | Integrated Crop Management | KBSH-53 | - | Irrigated | 10 | 04 | 8.75 | 7.00 | 7.65 | 6.71 | 14. | 10500 | 26010 | 15510 | 2.48 | 9500 | 22814 | 13314 | 2.40 |
| **Pulses** | | | | | | | | | | | | | | | | | | | |

| Crop | Name of the technology demonstrated | Variety | Hybrid | Farming situation | No. of Demo. | Area (ha) | Yield (q/ha) | | | | % Increase | Economics of demonstration (Rs./ha) | | | | Economics of check (Rs./ha) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Demo | | | Check | | Gross Cost | Gross Return | Net Return | BCR | Gross Cost | Gross Return | Net Return | BCR |
| | | | | | | | H | L | A | | | | | | | | | | |
| Pigeon pea | Introduction of Pigeon pea variety TS-3R | TS-3R | - | Rainfed | 25 | 10 | 7.50 | 0.75 | 4.48 | 2.50 | 79.2 | 7240 | 33600 | 26360 | 4.48 | 5250 | 19725 | 14475 | 2.63 |
| Bengalgram | Introduction of Bengalgram var. BGD-103 and JG-11 | BGD-103 | - | Rainfed | 7 | 2.8 | 16.30 | 5.00 | 9.6 | 7.6 | 26 | 16000 | 42975 | 26975 | 2.7 | 16000 | 34087 | 18087 | 2.13 |
| | | JG-11 | - | | 05 | 02 | 12.50 | 3.75 | 7.8 | 6.6 | 18 | 16000 | 34875 | 18875 | 2.18 | 16000 | 27112 | 11112 | 1.70 |
| **Cereals** | | | | | | | | | | | | | | | | | | | |
| Maize | Dual purpose (Stay green type maize hybrid Hema (NAH-1137) | - | NAH-1137 | Raifed | 12 | 05 | 65 | 30 | 43.8 | 42.0 | 4.3 | 22500 | 71190 | 48690 | 3.16 | 22500 | 69600 | 47100 | 3.09 |
| Maize | Soil test based nutrient management in maize | - | CP-818 | Rainfed | 16 | 6.4 | 45 | 25 | 37.75 | 36.10 | 4.57 | 33500 | 58512 | 25012 | 1.75 | 32500 | 54405 | 21905 | 1.67 |
| Paddy | Aerobic rice | MAS-26 | - | Irrigated | 05 | 02 | 40.0 | 17.5 | 35.0 | - | - | 15000 | 71000 | 56000 | 4.73 | - | - | - | - |
| Millets | | | | | | | | | | | | | | | | | | | |
| Little millet | Sukshema variety of little millet | Sukshema | - | Rainfed | 12 | 05 | Vitiated due to shortfall of rainfall | | | | | | | | | | | | |
| Foxtail millet | HMT-100-1 variety of foxtail millet | HMT-100-1 | - | Rainfed | 26 | 10 | Vitiated due to shortfall of rainfall | | | | | | | | | | | | |

| Crop | Name of the technology demonstrated | Variety | Hybrid | Farming situation | No. of Demo. | Area (ha) | Yield (q/ha) | | | | % Increase | Economics of demonstration (Rs./ha) | | | | Economics of check (Rs./ha) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Demo | | | Check | | Gross Cost | Gross Return | Net Return | BCR | Gross Cost | Gross Return | Net Return | BCR |
| | | | | | | | H | L | A | | | | | | | | | | |
| Vegetables | | | | | | | | | | | | | | | | | | | |
| Onio | Management of purple leaf blotch disease in Onion | Bellary red | - | Rainfed | 12 | 05 | 290 | 206 | 248.2 | 186.75 | 32.8 | 24975 | 173600 | 148615 | 6.9 | 22595 | 130725 | 108130 | 5.7 |
| Tomato | New tomato hybrid DMT-2 | - | DMT-2 | Rainfed | 05 | 02 | Vitiated due to fluctuation in irrigation facility | | | | | | | | | | | | |
| Fruit | | | | | | | | | | | | | | | | | | | |
| Banana | Popularization of Banana special and Management of leaf spot disease in Banana | G-9 | - | Irrigated | 10 | 04 | 67.50 | 45.00 | 56.00 | 48.63 | 15.17 | 137500 | 335000 | 197500 | 2.43 | 125000 | 297500 | 172500 | 2.30 |
| Fibre crops like cotton | | | | | | | | | | | | | | | | | | | |
| Cotton | Management of Sucking pests in Cotton | - | Bt | Rainfed | 12 | 05 | 20.5 | 17.1 | 18.8 | 14.1 | 33.3 | 33385 | 75200 | 41815 | 2.25 | 19595 | 56400 | 26805 | 2.88 |
| Fodder | | | | | | | | | | | | | | | | | | | |
| Fodder | Popularization of fodder varieties | COFS-29 | | Irrigated | 05 | 01 | 600 | 450 | 540 | - | - | 15100 | 43200 | 28100 | 2.86 | - | - | - | - |
| | | Co-3 | | | 05 | 01 | 800 | 450 | 660 | - | - | 15100 | 51200 | 36100 | 3.39 | - | - | - | - |
| | | Cowpea | | | 05 | 01 | 300 | 150 | 220 | - | - | 5628 | 2200 | 16372 | 3.90 | - | - | - | - |
| | | Leucrene | | | 05 | 01 | 650 | 200 | 447.5 | - | - | 8200 | 22375 | 14375 | 2.72 | - | - | - | - |

**Data on additional parameters other than yield**

| Data on other parameters in relation to technology demonstrated | | |
|---|---|---|
| **Parameter with unit** | **Demo** | **Check** |
| Purple seed stain disease in soybean (Dsb-21) (%) | 18-20 | 20-22 |
| Rust incidence in soybean (Dsb-21) (%) | 10-12 | 30-35 |
| Spodoptera in soybean (Dsb-21) (%) | 22-30 | 22-30 |
| Purple seed stain disease in soybean (JS-9305) (%) | 5-7 | 20-22 |
| Rust incidence in soybean (JS-9305) (%) | 28-30 | 30-35 |
| Spodoptera in soybean (JS-9305) (%) | 22-30 | 22-30 |
| INM Maize Cob length (cm) | 20.2 | 16.25 |
| INM Maize Plant height (cm) | 114.0 | 103.5 |
| Head size in Sunflower (cm) | 24.4 | 21.1 |
| Seed filling in Sunflower (%) | 93.0 | 85.2 |
| Wilt disease in bengalgram (%) | 5-6 | 10-12 |
| Branch / finger weight in Banana | 1.240 | 1.08 |
| % disease reduction in onion | 80 | 0 |
| % sucking pests reduction in cotton | 78 | 0 |
| % Thrips reduction in cotton | 78 | 0 |
| % Mirid bugs reduction in cotton | 72 | 0 |
| % Shoot weevil reduction in cotton | 29 | 0 |

**5.B.2. Livestock and related enterprises**

| Type of livestock | Name of the technology demonstrated | Breed | No. of Demo | No. of Units | Yield (q/ha) | | | | % Increase | Economics of demonstration Rs./unit) | | | | Economics of check (Rs./unit) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Demo | | | Check | | Gross Cost | Gross Return | Net Return | BCR | Gross Cost | Gross Return | Net Return | BCR |
| | | | | | H | L | A | | | | | | | | | | |
| Dairy | Supplementation of by-pass FAT in post calving dairy cows | Cross breed | 05 | 05 | 17.3 | 12 | 14.5 | 12 | 20.83 | 26750 | 34800 | 8050 | 1.30 | 25000 | 28800 | 3800 | 1.15 |
| Poultry | TANUVAS- Oral pellet vaccine to control ranikhet diseases in broilers | Local | 02 | 02 | - | - | - | - | - | - | - | - | - | - | - | - | - |

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

| Data on other parameters in relation to technology demonstrated | | |
|---|---|---|
| **Parameter with unit** | **Demo** | **Check** |
| Increase in conceiving rate (%) for Supplementation of by-pass FAT | 20 | 05 |
| Inter calving period (days) for Supplementation of by-pass FAT | 320 | 400 |
| Reduction of % disease for using TANUVAS- Oral pellet vaccine | 95 | 00 |

**5.B.3. Fisheries : Nil**

**5.B.4. Other enterprises :Nil**

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

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

| Sl.No. | Activity | No. of activities organised | Number of participants | Remarks |
|---|---|---|---|---|
| 1 | Field days | 02 | 150 | - |
| 2 | Farmers Training | 50 | 973 | - |
| 3 | Media coverage | 00 | 00 | 00 |
| 4 | Training for extension functionaries | 05 | 145 | 00 |
| 5 | Others (Please specify) | 00 | 00 | 00 |

## PART VI – DEMONSTRATIONS ON CROP HYBRIDS

**Demonstration details on crop hybrids**

| Type of Breed | Name of the technology demonstrated | Name of the hybrid | No. of Demo | Area (ha) | Yield (q/ha) | | | | % Increase | Economics of demonstration (Rs./ha) | | | | Economics of check (Rs./ha) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Demo | | | Check | | Gross Cost | Gross Return | Net Return | BCR | Gross Cost | Gross Return | Net Return | BCR |
| | | | | | H | L | A | | | | | | | | | | |
| **Cereals** | | | | | | | | | | | | | | | | | |
| Maize | Dual purpose (Stay green type maize hybrid Hema (NAH-1137) | NAH1137 | 12 | 05 | 65 | 30 | 43.8 | 42.0 | 4.3 | 22500 | 71190 | 48690 | 3.16 | 22500 | 69600 | 47100 | 3.09 |
| Maize | Soil test based nutrient management in maize | CP818 | 16 | 6.4 | 45 | 25 | 37.75 | 36.10 | 4.57 | 33500 | 58512 | 25012 | 1.75 | 32500 | 54405 | 21905 | 1.67 |
| **Total** | | | **28** | **11.4** | | | | | | | | | | | | | |
| **Vegetable crops** | | | | | | | | | | | | | | | | | |
| Tomato | New tomato variety DMT-2 | DMT-2 | 05 | 02 | Under progress | | | | | | | | | | | | |
| **Total** | | | **05** | **02** | | | | | | | | | | | | | |
| **Commercial crops** | | | | | | | | | | | | | | | | | |
| Cotton | Management of Sucking pests in Cotton | Bt-Cotton | 12 | 05 | 20.5 | 17.1 | 18.8 | 14.1 | 33.3 | 33385 | 75200 | 41815 | 2.25 | 19595 | 56400 | 26805 | 2.88 |
| **Total** | | | **12** | **05** | | | | | | | | | | | | | |

## PART VII. TRAINING

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

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| **Crop Production** | | | | | | | | | | |
| Cropping Systems | 2 | 23 | 0 | 23 | 04 | 0 | 04 | 27 | 0 | 27 |
| Seed production | 2 | 12 | 0 | 12 | 15 | 5 | 20 | 27 | 5 | 32 |
| Integrated Crop Management | 2 | 42 | 0 | 42 | 12 | 0 | 12 | 54 | 0 | 54 |
| Integrated Nutrient Management | 1 | 0 | 0 | 0 | 20 | 0 | 20 | 20 | 0 | 20 |
| Production of organic inputs | 1 | 12 | 0 | 12 | 14 | 0 | 14 | 26 | 0 | 26 |
| **Soil Health and Fertility Management** | | | | | | | | | | |
| Production and use of organic inputs | 1 | 30 | 0 | 30 | 0 | 0 | 0 | 30 | 0 | 30 |
| Soil and water testing | 3 | 77 | 0 | 77 | 0 | 0 | 0 | 77 | 0 | 77 |
| **Livestock Production and Management** | | | | | | | | | | |
| Dairy Management | 3 | 2 | 62 | 64 | 4 | 10 | 14 | 6 | 72 | 78 |
| Poultry Management | 4 | 49 | 40 | 89 | 12 | 9 | 21 | 61 | 49 | 110 |
| **Production of Inputs at site** | | | | | | | | | | |
| Seed Production | 5 | 22 | 0 | 22 | 35 | 5 | 40 | 57 | 5 | 62 |
| **TOTAL** | **24** | **269** | **102** | **371** | **116** | **29** | **145** | **385** | **131** | **516** |

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

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| **Crop Production** | | | | | | | | | | |
| Integrated Crop Management | 4 | 90 | 21 | 111 | 48 | 11 | 59 | 138 | 32 | 170 |
| IFS | 3 | 0 | 0 | 0 | 68 | 0 | 68 | 68 | 0 | 68 |
| **Soil Health and Fertility Management** | | | | | | | | | | |
| Soil fertility management | 1 | 40 | 0 | 40 | 0 | 0 | 0 | 40 | 0 | 40 |
| Production and use of organic inputs | 1 | 52 | 0 | 52 | 0 | 0 | 0 | 52 | 0 | 52 |
| Soil and water testing | 32 | 3499 | 326 | 3825 | 454 | 177 | 631 | 3953 | 503 | 4456 |
| **Livestock Production and Management** | | | | | | | | | | |
| Dairy Management | 1 | 30 | 1 | 31 | 5 | 2 | 7 | 35 | 3 | 38 |
| Animal Nutrition Management | 5 | 88 | 30 | 118 | 24 | 0 | 24 | 112 | 30 | 142 |
| Animal Disease Management | 3 | 61 | 4 | 65 | 9 | 1 | 10 | 70 | 5 | 75 |
| Feed and Fodder technology | 6 | 195 | 30 | 225 | 55 | 10 | 65 | 250 | 40 | 290 |
| **Home Science/Women empowerment** | | | | | | | | | | |
| Household food security by kitchen gardening and nutrition gardening | 2 | 28 | 29 | 57 | 15 | 13 | 28 | 43 | 42 | 85 |
| Location specific drudgery | 1 | 9 | 4 | 13 | 11 | 0 | 11 | 20 | 4 | 24 |

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| production | | | | | | | | | | |
| **Plant Protection** | | | | | | | | | | |
| Integrated Pest Management | 1 | 70 | 0 | 70 | 0 | 0 | 0 | 70 | 0 | 70 |
| Integrated Disease Management | 18 | 901 | 65 | 966 | 233 | 20 | 253 | 1134 | 85 | 1219 |
| **Production of Inputs at site** | | | | | | | | | | |
| Seed Production | 04 | 48 | 0 | 48 | 55 | 3 | 58 | 103 | 3 | 106 |
| IFS | 1 | 0 | 0 | 0 | 18 | 0 | 18 | 18 | 0 | 18 |
| **TOTAL** | **83** | **5111** | **510** | **5621** | **995** | **237** | **1232** | **6106** | **747** | **6853** |

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

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Any other | | | | | | | | | | |
| Soil and Water Conservation | 1 | 35 | 30 | 65 | 0 | 0 | 0 | 35 | 30 | 65 |
| **TOTAL** | **1** | **35** | **30** | **65** | **0** | **0** | **0** | **35** | **30** | **65** |

**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) Nil**

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

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Household food security | 1 | 0 | 12 | 12 | 0 | 11 | 11 | 0 | 23 | 23 |
| Any other | | | | | | | | | | |
| Soil and Water Testing | 2 | 45 | 4 | 49 | 6 | 6 | 12 | 51 | 10 | 61 |
| **Total** | **3** | **45** | **18** | **61** | **6** | **17** | **23** | **51** | **43** | **84** |

**7.G. Sponsored training programmes conducted : Nil**

**7.H. Details of Vocational Training Programmes carried out by KVKs for rural youth**

| S.No. | Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | General | | | SC/ST | | | Grand Total | | |
| | | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| **4.** | **Income generation activities** | | | | | | | | | | |
| 4.i. | Tailoring, stitching, embroidery | 01 | 0 | 17 | 17 | 0 | 02 | 02 | 0 | 19 | 19 |
| | **Grand Total** | **01** | **0** | **17** | **17** | **0** | **02** | **02** | **0** | **19** | **19** |

## PART VIII – 120 ACTIVITIES

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

| Nature of Extension Programme | No. of Programmes | No. of Participants (General) | | | No. of Participants SC / ST | | | No.of extension personnel | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Field Day | 02 | 120 | 30 | 150 | 10 | 05 | 15 | 02 | 00 | 02 |
| Kisan Mela | 3 | 120 | 40 | 160 | 0 | 0 | 0 | 6 | 4 | 10 |
| Kisan Ghosthi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Exhibition | 2 | 280 | 30 | 310 | 0 | 0 | 0 | 120 | 20 | 140 |
| Film Show | 1 | 12 | 0 | 12 | 06 | 00 | 6 | 2 | 0 | 2 |
| Method Demonstration | 13 | 279 | 7 | 286 | 30 | 0 | 30 | 38 | 5 | 43 |
| Famers Seminar | 2 | 160 | 25 | 185 | 35 | 24 | 59 | 04 | 02 | 06 |
| Workshop | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Group meetings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lectures delivered as resource persons | 34 | 547 | 265 | 812 | 141 | 78 | 219 | 168 | 53 | 221 |
| Newspaper coverage | 04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Radio talks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TV talks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Popular articles | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Extension Literature | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Advisory Services | 208 | 180 | 28 | 208 | 0 | 0 | 0 | 10 | 2 | 12 |
| Scientific visit to farmers field | 63 | 520 | 0 | 520 | 0 | 0 | 0 | 0 | 0 | 0 |
| Farmers visit to KVK | 129 | 88 | 02 | 90 | 41 | 0 | 41 | 0 | 0 | 0 |
| Diagnostic visits | 02 | 2 | 0 | 2 | 0 | 0 | 0 | 4 | 2 | 6 |
| Exposure visit | 1 | 7 | 6 | 13 | 0 | 0 | 0 | 1 | 0 | 1 |
| Ex-trainees Sammelan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Soil health Camp | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Animal Health Camp | 1 | 120 | 0 | 120 | 0 | 0 | 0 | 5 | 0 | 5 |
| Agri mobile clinic | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Soil test campaigns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Farm Science Club Conveners meet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Self Help Group Conveners meetings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mahila Mandals Conveners meetings | 0 | 00 | 0 | 00 | 0 | 0 | 0 | 0 | 0 | 0 |
| Celebration of important days (specify) | | | | | | | | | | |
| International Womens day | 1 | 0 | 43 | 43 | 0 | 27 | 27 | 0 | 2 | 2 |
| Any Other (Specify) | | | | | | | | | | |
| Campaign | 2 | 80 | 10 | 90 | 40 | 0 | 40 | 8 | 0 | 8 |
| Animal show | 2 | 68 | 0 | 68 | 0 | 0 | 0 | 25 | 0 | 25 |
| Krishi Andolana | 4 | 508 | 110 | 618 | 38 | 30 | 68 | 04 | 02 | 06 |
| Krishi Uthsava | 4 | 510 | 135 | 645 | 80 | 45 | 125 | 169 | 115 | 284 |
| Scientist farmers interaction | 5 | 330 | 70 | 400 | 140 | 40 | 180 | 70 | 14 | 84 |
| **Total** | **504** | **3931** | **801** | **4732** | **561** | **249** | **810** | **636** | **221** | **857** |

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

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

| Crop category | Name of the crop | Variety | Hybrid | Quantity of seed (qtl) | Value (Rs) | Number of farmers to whom provided |
|---|---|---|---|---|---|---|
| Cereals | Sorghum | Anuradha | - | 0.68 | 3264.00 | 4 |
| Cereals | Sorghum | M-35-1 | - | 1.07 | 5136.00 | 3 |
| Cereals | Maize | SAT | - | 9.5 | 14250.00 | 1 |
| Oilseeds | Groundnut | DH-86 | - | 0.25 | 1200.00 | 1 |
| Oilseeds | Groundnut | GPBD 4 | - | 13.28 | 77554.00 | 7 |
| Oilseeds | Groundnut | GPBD 5 | - | 16.85 | 106662.50 | 8 |
| Pulses | Cowpea | | - | 0.2 | 1140.00 | 1 |
| Pulses | Red gram | BSMR 736 | - | 6.905 | 54549.50 | 63 |
| Pulses | Horse gram | GPM-6 | - | 3 | 6300.00 | 1 |
| **Others** | | | | | | |
| Millets | Foxtail millet | HMT-100-1 | | 0.43 | 1032.00 | 1 |
| Millets | Little millet | Sukshema | | 3 | 6900.00 | 1 |
| **Total** | | | | **55.165** | **277988.00** | **91** |

**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 |
|---|---|---|---|---|---|---|
| Fruits | Sapota | DSH-1 | - | 273 | 10920.00 | 23 |
| Fruits | Sapota | DSH-2 | - | 295 | 11800.00 | 25 |
| Spices | Curry leaf | Suvasini | - | 5770 | 46160.00 | 26 |
| **Total** | | | | **6338** | **68880.00** | **72** |

**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**

**(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.): Nil**

**(B) Literature developed/published**

| Item | Title | Authors name | Number |
|---|---|---|---|
| **Technical bulletins** | Shenga beleya besaya hagu Moulyavardhane | Kavera Biradar, Geeta S. Tamgale, T.M.Soumya, S.Y. Mukartal, S.A. Ashtaputre | 02 |
| | Cocoa – Beejadinda marukattege | Vinuta Mukthamath, Shakuntala Masur, Geeta S. Tamgale, Umesh Mukthamath, Ravikumar M.R. and Hemanth Hegde | |
| **Popular articles** | Mannu Pareekshe : Yashaswi Krishige Adipaya | G.R. Rajakumar, M.A. Gaddanakeri | 11 |
| | Mannu Arogya Kapadi | G.R. Rajakumar, M.A. Gaddanakeri | |
| | Yantradinda Bhattada nati: hecchu eluvari, kharchu kadime | T.M.Soumya , D.S. Mallikarjunappa Gouda | |
| | Paryaya bele yojane mattu nirvahane | T.M.Soumya, G.R. Rajakumar | |
| | Halavu mukhagala halasu | Vinuta Mukkatamath Geeta Kalakanavar | |
| | Kelage Erehulu gobbara tayarike mele Balli arakari Krishi | T.M.Soumya, Geeta Kalakanavar | |
| | Besige Shenga beleya besaya kramagalu | Kavera Biradar, Mallikarjuna Kenganal | |
| | Shenga beleyallina roga, keeta niyanthrana | Kavera Biradar, Mallikarjuna Kenganal | |
| | Besige shenga bijothpadane kramagalu | Kavera Biradar, Mallikarjuna Kenganal | |
| | Shenga beleyalli laghu poshakamshagala niravahane | Kavera Biradar and T.M.Soumya | |
| | Sasyagalalliya mooka chinhegalu | Dr. G.R.Rajkumar and Dr. Soumya T.M. | |
| **Extension literature** | Raitara sahabhagithvadalli beejothpadane : Beejagrama Yojane | Kavera Biradar, T.M. Soumya, G.R. Rajakumar, S.A. Ashtaputre | 10 |
| | Kutumbada Agrogyakkagi Kaitota | Geeta S. Tamgale, T.M. Soumya, S.Y. Kukartala, Kavera Biradar, S.A. Ashtaputre, G.R. Rajkumar | |
| | Griha uddimeyagi chocolate tayarike | Vinuta Mukthamath, Shakuntala Masur, Hemanth Hegde, Geeta S. Tamgale and Umesh Mukthamath | |
| | Hitthalalli koli saaki shramavillade hana galisi | Mukartal,S.Y., Ashtaputre S.A., Soumya T.M., Geeta S.Tamgale and Rajakumar G.R. | |
| | Krishiyalli jaivika gobbaragala pathra & upayoga | Rajakumar G.R., Soumya T.M. and D.S.M. Gouda | |
| | Cultivation practices of Banana | G.R. Rajakumar, Ashtaputre S.A, Ganapati T | |
| | Soil and water conservation in Watershed | D.S.M. Gouda, Soumya T.M., G.R. Rajakumar | |
| | Roof water harvesting | D.S.M. Gouda, Soumya T.M., G.R. Rajakumar | |
| | Ground water recharge through open wells | D.S.M. Gouda, Soumya T.M., G.R. Rajakumar | |
| | Production technology of Groundnut | Soumya T M . S.A. Ashtaputre, G.R. Rajakumar, Geeta S. Tamgale | |
| **Others** | | | |
| **Capsules** | Tadavada male: tadabadisida annadatha | T.M. Soumya | 02 |
| | Raitarige KVK salahe | T.M. Soumya | |
| **Handout** | Paryaya bele yojane | T.M.Soumya , D.S. Mallikarjunappa Gouda,G.T. Veerabhadra Reddy | 01 |
| **News Paper** | Mannina samrakshanege gamana harisutthilla : Kalakalli | G.R. Rajakumar, | 04 |
| | Beejopachara andolana raitarige Pratyakshike | G.R. Rajakumar, | |
| | Kirudhanyagalu : Baragaladalli ahara bhadratege pavada dhanyagalu | Mallikarjuna Kenganal, Kavera Biradar | |
| | Hingaru hagamige hithanudigalu | Mallikarjuna Kenganal, Kavera Biradar | |
| **TOTAL** | | | **30** |

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

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

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

**10.E. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development : Nil**

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

**10.G. Field activities**

i. Number of villages adopted : 30

ii. No. of farm families selected :200

iii. No. of survey/PRA conducted : 10

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

Status of establishment of Lab :

1. Year of establishment : 01.04.2005

2. List of equipments purchased with amount :

| Sl. No. | Name of Equipments | Qty (No's) | Rate | Cost |
|---|---|---|---|---|
| 1. | Electronics weighing scale with battery Back up, (Physical Balance) | 1 | 10471.00 | 10471.00 |
| 2. | Electronic Weighing Machine | 1 | 57000.00 | 57000.00 |
| 3. | Elico Microprocessor based pH Analyser. | 1 | 8900.00 | 8900.00 |
| | **Accessories** | | | |
| | Combined Electrode type CL 51B for pH Meter Model : LI612 | 1 | 850.00 | 850.00 |
| 4. | Elico Microprocessor based EC TDS Analyser with CC-03B and ATC Probe. | 1 | 9790.00 | 9790.00 |
| | **Accessories** | | | |
| | Conductivity cell | 1 | 1000.00 | 1000.00 |
| 5. | Elico Microprocessor based Flame photometer (SS), | 1 | 32040.00 | 32040.00 |
| | **Accessories** | | | |
| | Calcium filter | 1 | 2200.00 | 2200.00 |
| 6. | Elico Microprocessor based Scanning Visible Spectro photometer. Model : SL 177 | 1 | 40050.00 | 40050.00 |
| | ***Accessories*** | | | |
| | Software and interfacing accessories for Spectrophotometer | | 20000.00 | 20000.00 |
| | One Pair of Quartz Cuvettes, 100 nos. of Plastic Cuvettes, | | | |
| | Tungsten Halogen lamp for Spectrophotometer | | | |
| 7. | Double Distillation water still (Glass)Silica Sheathed heater, CAP : 2 L/hr | 1 | 16000.00 | 16000.00 |
| | **Accessories** | | | |
| | Spare Silica Heater for Double Distillation Water Still (Glass) Cap: 2 ltr/hr (One set –Two Nos. for Boiler I & II ) | 1 Set | 2837.00 | 2837.00 |
| 8. | Double Distillation water still (Quartz)4 L./hr. Silica Sheathed heater, CAP:4 L/hr. | 1 | 43050.00 | 43050.00 |
| | **Accessories** | | | |
| | Spare Silica Heater for Double Distillation Water Still (Quartz) Cap:4 L/hr (One set –Two Nos. for Boiler I & II ) | 1 Set | 5201.00 | 5201.00 |
| 9. | Water softner | 1 | 3250.00 | 3250.00 |
| 10. | Shaking Machine | 1 | 47025.00 | 47025.00 |
| 11. | Voltas Make 220 L. Capacity Refrigerator | 1 | 10765.00 | 10765.00 |

| Sl. No. | Name of Equipments | Qty (No's) | Rate | Cost |
|---|---|---|---|---|
| | V-Guard Make 500 VA Stabilizer | 1 | 1220.00 | 1220.00 |
| | Refrigerator Stand | 1 | 300.00 | 300.00 |
| 12. | Microprocessor based Block Digestion system | 1 | 137350.00 | 142844.00 |
| | Microprocessor based Automatic Nitrogen Distillation system | 1 | 5494.00 | |
| | **Accessories** | | | |
| | Electronic Acid Neutralizer Scrubber. Model: KEL VAC. | 1 | 30400.00 | 30400.00 |
| | S S Insert Rack. Model: KES 06 L. | 1 | 6300.00 | 6300.00 |
| | Exhaust Manifold System with Teflon Adaptors. Model: KES 06 LEM. | 1 | 7160.00 | 7160.00 |
| | Viton Tube for Triacid and Diacid Digestion. Model: KES VT. | 3 | 3250.00 | 9750.00 |
| 13. | Hot air oven | 1 | 16471.00 | 16471.00 |
| 14. | Hot plate | 1 | 3046.00 | 3046.00 |
| 15. | Grinder | 1 | 15435.00 | 15435.00 |
| 16. | Water Softener "Bhanu" Make Aqua Soft water softener (Model: AS-600) | 1 | 9752.00 | 9752.00 |
| 17. | Post Hole Augar Head Size: 3" | 1 | 1200.00 | 1200.00 |
| 18. | Screw type Augar Head size :1.5 " | 1 | 980.00 | 980.00 |
| 19. | Sieve Brass Frame | 04 | 650.00 | 2860.00 |
| 20. | **Laboratory wares** | | | |
| | Laboratory tables | 03 | 16931.00 | 118517.00 |
| | | 04 | 18944.00 | 75776.00 |
| | Slotted angular iron racks | 05 | 1421.00 | 7105.00 |
| | Steel cabinet | 9 | 5326.00 | 47934.00 |
| | Wash basin | 3 | 1500.00 | 45000.00 |
| | Exhaust fan | 3 | 1500.00 | 1500.00 |
| | Laboratory racks | 06 | 1026.00 | 6156.00 |
| | Water tap with swan neck | 3 | 785.00 | 2355.00 |
| 21. | Gas burner | 01 | 1500.00 | 1500.00 |
| 22. | Laboratory stools | 05 | 828.00 | 4140.00 |
| 23. | Laboratory Chemicals | - | - | 85346.00 |
| 24. | Glassware | - | - | 91357.00 |
| **Total** | | | | **10,44,833.00** |

**Details of samples analyzed so far since establishment of SWTL (including 2012-13):**

| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages | Amount realized (Rs.) |
|---|---|---|---|---|
| **Soil Samples** | 8220 | 8206 | Max 375 | 516100 |
| **Water Samples** | 7132 | 7125 | Max 358 | **350300** |
| **Total** | **15352** | **15331** | | **866400** |

**Details of samples analyzed during the 2012-13 :**

| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages | Amount realized (Rs.) |
|---|---|---|---|---|
| **Soil Samples** | 3906 | 3892 | Max 375 | 244050 |
| **Water Sample** | 3369 | 3362 | Max 358 | 173750 |
| **Total** | **7275** | **7254** | **Max 375** | **417800** |

**10.I. Technology Week celebration during 2012-13 : No**

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

## PART XI. IMPACT- Nil

## PART XII - LINKAGES

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

| Name of organization | Nature of linkage |
|---|---|
| State Dept. of Agriculture | Training programmes, joint diagnostic survey and participation in meetings, seminars and field days. |
| State Dept. of Horticulture | Training programmes, joint diagnostic survey and participation in meetings, seminars and field days. |
| Rural Development Institutes (Zilla & Taluk Panchayats) | Training programmes, joint diagnostic survey and participation in meetings, seminars and field days. |
| State Dept. of Animal husbandry & Veterinary Services | Training programmes, joint diagnostic survey and participation in meetings, seminars and field days. |
| Karnataka Milk Federation | Training programmes. |
| Karnataka State Seed corporation limited | Supply of inputs (seeds) and seed production programme |
| Women and Child Development Department | Training programmes. |
| Karnataka Oil Seeds Federation | Supply of inputs |
| NABARD, Vijaya Bank, State Bank of India, M.G. Bank and Syndicate Bank. | Participation in meeting, conducting training programmes and promotion of TTC. |
| Bharath Agro Industries Foundation, Haveri | Training programmes |
| GRASIM Janakalyan Trust, Kumar Pattanum | Training programmes. |
| Sheep and Wool Development Board | Trainings. |
| State Dept. of Watershed | Training programmes, IFS Demonstration, Seminars and Field days. |
| JSYS | Training programmes, Demonstration, Seminars and Field days. |
| National Horticultural Research and Development Federation | Joint implementation and participation in meeting/Training Programme |
| Spice Board | Joint implementation and participation in meeting/Training Programme |
| Different private firms dealing with Medicinal and Aromatic crops | Training Programmes |
| IIHR, Bangalore | Technical consultancy |
| NGO's | Joint implementation and participation in meeting. |
| Mahila Mandals and Youth Clubs | Joint implementation and participation in meeting. |
| Sugar Factories | Joint diagnostic survey and participation in meeting |
| Karnataka Sugar Institute, Belgaum | Joint diagnostic survey and participation in meeting/ Training |
| Successful Entrepreneurs | Training Programme/ Technical Advice |
| Vijaya Bank Sponsored Employment Training Institute | Joint implementation participation in meeting and Training Programme. |
| Ring KVK's | Seeds, planting materials, bio-pesticides and training |

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

| Name of the scheme | Date/ Month of initiation | Funding agency | Amount (Rs.) |
|---|---|---|---|
| Empowerment of SC and ST Household families of Northern Karnataka | April -2010 to till date | Karnataka State Government (SC/ST Corporation) | 48,47,000/- |

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

a) Is ATMA implemented in your district Yes

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

**Coordination activities between KVK and ATMA during 2012-13**

| S. No. | Programme | Particulars | No. of programmes attended by KVK staff | No. of programmes Organized by KVK | Other remarks (if any) |
|---|---|---|---|---|---|
| **01** | **Meetings** | KVK Scientists – ATMA staff interaction | 01 | 01 | - |
| | | Role of KVK's in implementation of ATMA activities | 02 | - | - |
| **02** | **Research projects** | - | - | - | - |
| **03** | **Training programmes** | Training for selected farmers of 6 model villages of Hirekerur & Ranebennur taluka | 02 | - | - |
| | | Training for FIG's on groundnut cultivation | 01 | - | - |
| | | Training for FIG's on paddy cultivation | 01 | - | - |
| | | Balanced feeding of animals & improved animal husbandry practices | 02 | - | - |
| | | Dairy farming and stall feed sheep and goat rearing | 01 | - | - |
| **04** | **Demonstrations** | - | - | - | - |
| **05** | **Extension Programmes** | | | | |
| | Kisan Mela | Zilla Krishi Uthsava | 01 | - | - |
| | Others | | | | |
| | Animal Show | Cross bred animal show | 01 | - | - |
| | Farm school | ICM in maize | 04 | - | - |
| | | Bt-cotton hybrids | 02 | - | - |
| | | ICM in paddy | 01 | - | - |
| **06** | **Publications** | | | | |
| | Extension Literature | POP for major crops | 02 | - | - |

**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 -2012 | 32 | 15791 | - |
| May-2012 | 29 | 12347 | - |
| June -2012 | 27 | 9312 | - |
| July -2012 | 27 | 21497 | - |
| August-2012 | 9 | 2727 | - |
| September -2012 | 13 | 4736 | - |
| October -2012 | 1 | 303 | - |
| November -2012 | 4 | 2583 | - |
| December -2012 | 14 | 4532 | - |
| January -2013 | 4 | 4539 | |
| February -2013 | 4 | 3228 | - |
| March-2013 | 0 | 0 | - |
| **Total** | 164 | 81595 | - |

## PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

| Sl. No. | Demo Unit | Year of establishment | Area (ha) | Details of production | | | Amount (Rs.) | | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Variety | Produce | Qty. Kg | Cost of inputs | Gross income | |
| 1 | Fodder Bank | 2012-13 | 0.4 | IGFRI-7 | Green fodder | 400 | - | - | Used for dairy animals feeding |
| | | | | IGFRI-3 | | 380 | | | |
| | | | | APBN-1 | | 400 | | | |
| | | | | CO-3 | | 2249 | | | |
| | | | | BS-13 | | 532 | | | |
| | | | | Guinea grass | | 107 | | | |
| | | | | DHN-6 | | 417 | | | |
| | | | | NB-21 | | 649 | | | |
| | | | | CO-4 | | 632 | | | |

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

| Name of the crop | Date of sowing | Date of harvest | Area (ha) | Details of production | | | Amount (Rs.) | | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Variety | Type of Produce | Qty. | Cost of inputs | Gross income | |
| **Cereals** | | | | | | | | | |
| Sorghum | 6.10.2012 | 05.02.2012 | 1.20 | Anuradha | TL | 100 kg | 2000 | 5000 | |
| Foxtail millet | 22.06.2012 | 09.11.2012 | 1.10 | HMT-100-1 | TL | 100 kg | 1000 | 2300 | |
| Little millet | 18.06.2012 | 15.11.2012 | 1.20 | Sukshema | TL | 150 kg | 1000 | 3450 | |
| **Pulses** | | | | | | | | | |
| Pigeon pea | 27.06.2012 | 05.01.2013 | 2.50 | BSMR-736 | TL | 450 kg | 8000 | 32400 | |
| **Oilseeds** | | | | | | | | | |
| Groundnut | 27.07.2012 | 18.01.2012 | 0.40 | GPBD-4 | TL | 270 kg | 6000 | 19170 | |
| Groundnut | 27.07.2012 | 18.01.2012 | 0.40 | GPBD-5 | TL | 450 kg | 8000 | 31950 | |
| **Spices & Plantation crops** | | | | | | | | | |
| Curry leaf | - | - | 0.10 | Suvasini | Seedlings | 5770 | 2000 | 46160 | |
| Sapota | - | - | 0.10 | DSH-1 &DSH-2 | Seedlings | 568 | 15000 | 22720 | |

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

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

| Sl.No | Name of the animal / bird / aquatics | Details of production | | | Amount (Rs.) | |
|---|---|---|---|---|---|---|
| | | Breed | Type of Produce | Qty. (lit) | Cost of inputs | Gross income |
| 1 | Cow | HF x Deoni cross breed | Milk | 27355 | 421000/- | 568507/- |

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

Accommodation available (No. of beds)

| Months | No. of trainees stayed | Trainee days (days stayed) | Reason for short fall (if any) |
|---|---|---|---|
| April 2012 | - | - | During 2012-13, KVK hostel was utilized by the newly opened Agricultural College at Hanumanamatti |
| May 2012 | - | - | |
| June 2012 | - | - | |
| July 2012 | - | - | |
| August 2012 | - | - | |
| September 2012 | - | - | |
| October 2012 | - | - | |
| November 2012 | - | - | |
| December 2012 | - | - | |
| January 2013 | - | - | |
| February 2013 | - | - | |
| March 2013 | - | - | |

**13.F. Database management**

| S. No | Database target | Database created |
|---|---|---|
| 1. | Training Database | Completed |
| 2. | Seeds and Planting Material Database | Completed |
| 3. | Frontline Demonstrations Database | Completed |
| 4. | Soil Analysis Data Base | Completed |
| 5. | Water Analysis Data Base | Completed |
| 6. | KVK Inventory of Assets | Under progress |
| 7. | Database of Extension Programmes | Under progress |
| 8. | Resource inventory of the District | Under progress |
| 9. | Farmers Database | Under Progress |
| 10. | KVK Accounts Database | Under progress |
| 11. | Technology Inventory for the District | Under progress |
| 12. | Database for Technologies assessed and Refined | Under progress |

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

| Amount sanction (Rs.) | Expenditure (Rs.) | Details of infrastructure created / micro irrigation system etc. | Activities conducted | | | | | Quantity of water harvested in '000 litres | Area irrigated / utilization pattern |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. of Training programmes | No. of Demonstrations | No. of plant materials produced | Visit by farmers (No.) | Visit by officials (No.) | | |
| 10,000,00 | 9,11,000 | Adoption of sprinkler irrigation system | - | - | 6338 | 200 | 50 | 500000 | • Establishment mother plants of sapota, curry leaf, Guava and tamarind verities<br>• Establishment of nursery<br>• Establishment of fodder bank<br>• Maintenance of dairy farm<br>• Maintenance of Horticulture garden (Coconut and tamarind plants)<br>• Maintenance of vermi compost and azolla |

*** Sapota -238, Curryleaf-6100**

## 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 | State Bank of India | UAS Dharwad | 003151 | Comptroller | - | 580002304 | SBIN0003151 |
| With KVK | State Bank of India | Ranebennur | 00909 | Programmer Co-ordinator | 10811387935 | 581002115 | SBIN0000909 |

### 14.B. Utilization of KVK funds during the year 2012-13 (Rs. in lakh)

| S. No. | Particulars | Sanctioned | Released | Expenditure |
|---|---|---|---|---|
| **24.1** | **Recurring Contingencies** | | | |
| 24.1.1 | **Pay & Allowances** | 63.00 | 57.00 | 65.31 |
| 24.1.2 | **Traveling allowances** | 1.25 | 0.75 | 1.03 |
| 24.1.3 | **Contingencies** | | | |
| *24.1.4.1* | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance | 2.50 | 2.00 | 2.02 |
| *B* | POL, repair of vehicles, tractor and equipments | 1.80 | 1.50 | 1.57 |
| *C* | Meals/refreshment for trainees | 0.75 | 0.50 | 0.44 |
| *D* | Training material | 0.75 | 0.50 | 0.47 |
| *E* | Frontline demonstration except oilseeds and pulses | 3.00 | 3.00 | 3.00 |
| *F* | On farm testing | 0.35 | 0.30 | 0.30 |
| *G* | Training of extension functionaries | 0.25 | 0.20 | 0.00 |
| *H* | Maintenance of buildings | 0.55 | 0.50 | 0.50 |
| *I* | Establishment of Soil, Plant & Water Testing Laboratory | 0.00 | 0.00 | 0.00 |
| *J* | Extension Activities | 0.25 | 0.20 | 0.24 |
| *K* | Farmers Field School | 0.25 | 0.25 | 0.25 |
| *L* | Library | 0.05 | 0.05 | 0.05 |
| **24.1** | **Total Recurring** | **74.75** | **66.75** | **75.18** |
| **24.2** | **Non-Recurring Contingencies** | | | |
| 24.2.1 | **Works** | 0.00 | 0.00 | 0.00 |
| 24.2.2 | **Equipments including SWTL & Furniture** | 0.00 | 0.00 | 0.00 |
| 24.2.3 | **Vehicle** (Four wheeler/Two wheeler, please specify) | 0.00 | 0.00 | 0.00 |
| 24.2.4 | **Library** | 0.00 | 0.00 | 0.00 |
| **24.2** | **Total Non Recurring** | 0.00 | 0.00 | 0.00 |
| **24.3** | **REVOLVING FUND** | 0.00 | 0.00 | 0.00 |
| **24.4** | **GRAND TOTAL (A+B+C)** | **74.75** | **66.75** | **75.18** |

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

| Year | Opening balance as on 1st April | Income during the year | Expenditure during the year | Net balance in hand as on 1st April of each year |
|---|---|---|---|---|
| **ICAR** | | | | |
| April 2010 to March 2011 | - | - | - | - |
| April 2011 to March 2012 | 1.49 | 6.43 | 5.07 | 2.67 |
| April 2012 to March 2013 | 2.66 | 8.51 | 15.23 | 9.37 |
| **Training** | | | | |
| April 2010 to March 2011 | - | - | - | - |
| April 2011 to March 2012 | 1.46 | 1.03 | 1.08 | 1.40 |
| April 2012 to March 2013 | 0.40 | 0.64 | 0.77 | 0.53 |

**15. Details of HRD activities attended by KVK staff during 2012-13**

| Name of the staff | Designation | Title of the training programme | Institute where attended | Dates |
|---|---|---|---|---|
| Dr. T.M. Soumya | SMS (Agronomy) | Role of KVk's in implementation of ATMA activities | Director of Extension, UAS, Dharwad | 29.06.2012 to 30.06.2012 |
| Dr. G.R. Rajakumar | SMS (Soil Science) | Role of KVk's in implementation of ATMA activities | Director of Extension, UAS, Dharwad | 29.06.2012 to 30.06.2012 |
| Dr. S.A. Asthaputre | SMS (Pl. Pathology) | Role of KVk's in implementation of ATMA activities | Director of Extension, UAS, Dharwad | 29.06.2012 to 30.06.2012 |
| Dr. G.R. Rajakumar | SMS (Soil Science) | Activities of ATMA | UAS, Dharwad | 18.08.2012 |
| Dr. T.M. Soumya | SMS (Agronomy) | Farm journalism skills for extension functionaries | MANAGE & Director of Extension, UAS, Dharwad | 27.08.2012 to 31.08.2012 |
| Dr. Kavera Biradar | SMS (Plant Breeding) | Technology Assessment, Refinement and demonstration | KVK Tuticorin | 08.01.2013 to 11.01.2013 |
| Dr. T.M. Soumya | SMS (Agronomy) | Trainers Training on Agricultural Marketing | Directorate of Marketing and Inspection andKSMB | 09.01.2013 to 11.01.2013 |
| Mr. D.S.M. Gowda | Programme Co-ordinator | Impact Monitoring and Assessment of KVK activities FLD/OFT/Trg. | MYRADA Training Center, Erode (DT), Tamilnadu | 28.01.2013 to 02.02.2013 |
| Dr. T.M. Soumya | SMS (Agronomy) | Process documentation skills for information management | UAS, Dharwad | 12.03.2013 to 15.03.2013 |

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

**SUMMARY FOR 2012-13**

## I. TECHNOLOGY ASSESSMENT

**Summary of technologies assessed under various crops**

| Thematic areas | Crop | Name of the technology assessed | No. of trials |
|---|---|---|---|
| Integrated Disease Management | Chilli | Assessment of bioagents in chilli | 10 |
| **Total** | | | **10** |

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

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

**Summary of technologies assessed under home science**

| Thematic areas | Enterprise | Name of the technology assessed | No. of trials |
|---|---|---|---|
| Drudgery reduction | Others | Assessment of Fuel efficient eco friendly chulhas | 05 |
| | | **Total** | **05** |

## II. TECHNOLOGY REFINEMENT -Nil

## III. FRONTLINE DEMONSTRATION

**Crops**

| Crop | Thematic area | Name of the technology demonstrated | No. of KVKs | No. of Farmer | Area (ha) | Yield (q/ha) | | % change in yield | Other parameters | | | Economics of demonstration (Rs./ha) | | | | Economics of check (Rs./ha) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Demonstration | Check | | | Demonstration | Check | Gross Cost | Gross Return | Net Return | BCR | Gross Cost | Gross Return | Net Return | BCR |
| Cereals | | | | | | | | | | | | | | | | | | | |
| Maize | Hybrid introduction | Dual purpose (Stay green type maize hybrid Hema (NAH-1137) | | 12 | 05 | 43.8 | 42.0 | 4.3 | Green fodder yield (t/ha) | 9.5 | 6.0 | 22500 | 71190 | 48690 | 3.16 | 22500 | 69600 | 47100 | 3.09 |
| Maize | Problematic soil management | Soil test based nutrient management in maize | | 16 | 6.4 | 37.75 | 36.1 | 4.57 | Cob length (cm) | 20.2 | 16.25 | 33500 | 58512 | 25012 | 1.75 | 32500 | 54405 | 21905 | 1.67 |
| | | | | | | | | | Plant height (cm) | 114 | 103.5 | | | | | | | | |
| Paddy | Irrigation management | Aerobic rice | | 05 | 02 | 35.0 | - | - | Fodder yield (t/ha) | 3.0 | - | 15000 | 71000 | 56000 | 4.73 | - | - | - | - |
| Millets | | | | | | | | | | | | | | | | | | | |
| Little millet | Variety introduction | Sukshema variety of little millet | | 12 | 12 | Vitiated due to shortfall of rainfall | | | | | | | | | | | | | |
| Foxtail millet | Variety introduction | HMT-100-1 variety of foxtail millet | | 26 | 10 | Vitiated due to shortfall of rainfall | | | | | | | | | | | | | |
| Oilseeds | | | | | | | | | | | | | | | | | | | |
| Groundnut | Variety introduction | • Popularization of groundnut varieties GPBD-4 & GPBD-5<br>• Groundnut stripper<br>• Seed production. | | 07 | 03 | 18 | 14.5 | 24 | Leaf spot reduction (%) | 65 | 78.2 | 34150 | 117000 | 82850 | 3.40 | 33100 | 94250 | 61150 | 2.85 |
| | | | | | | | | | Rust reduction (%) | 60 | 61.3 | | | | | | | | |
| | | | | 13 | 08 | 20.2 | 14.5 | 41 | Leaf spot reduction (%) | 68 | 78.2 | 34150 | 133250 | 99100 | 3.90 | 33100 | 94250 | 61150 | 2.85 |
| | | | | | | | | | Rust reduction (%) | 65 | 61.3 | | | | | | | | |
| Groundnut | Variety introduction | • Popularization of groundnut varieties GPBD-4 & GPBD-5<br>• Groundnut stripper<br>• Seed production. | | 2 | 0.8 | 20 | 14.13 | 41.5 | - | - | - | 30250 | 76000 | 45750 | 2.50 | 30250 | 53692 | 23444 | 2.50 |
| | | | | 8 | 3.2 | 15.66 | 11.54 | 35.7 | - | - | - | 30250 | 59508 | 29258 | 1.96 | 30250 | 43852 | 13602 | 1.45 |
| Soybean | Variety introduction | New varieties of soybean Dsb-21 & JS-9305 | | 12 | 4.8 | 8.40 | 7.30 | 15 | Purple seed stain disease (%) | 18-20 | 20-22 | 11250 | 15120 | 3870 | 1.34 | 11250 | 13140 | 1890 | 1.17 |
| | | | | | | | | | Rust (%) | 10-12 | 30-35 | | | | | | | | |
| | | | | | | | | | Spodoptera incidence (%) | 22-30 | 22-30 | | | | | | | | |
| | | | | 08 | 3.2 | 7.50 | 6.30 | 19 | Purple seed stain disease (%) | 5-7 | 28-30 | 11250 | 13500 | 2250 | 1020 | 11250 | 11340 | 90 | 1.01 |

| Crop | Thematic area | Name of the technology demonstrated | No. of KVKs | No. of Farmer | Area (ha) | Yield (q/ha) | | % change in yield | Other parameters | | | Economics of demonstration (Rs./ha) | | | | Economics of check (Rs./ha) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Demonstration | Check | | | Demonstration | Check | Gross Cost | Gross Return | Net Return | BCR | Gross Cost | Gross Return | Net Return | BCR |
| | | | | | | | | | Rust (%) | 20-22 | 30-35 | | | | | | | | |
| | | | | | | | | | Spodoptera incidence (%) | 22-30 | 22-30 | | | | | | | | |
| Sunflower | ICM | Integrated Crop Management | | 10 | 04 | 7.65 | 6.71 | 14.00 | Head size (cm) | 24.4 | 21.1 | 10500 | 26010 | 15510 | 2.48 | 9500 | 22814 | 13314 | 2.40 |
| | | | | | | | | | Seed filling (%) | 93.0 | 83.2 | | | | | | | | |
| Pulses | | | | | | | | | | | | | | | | | | | |
| Pigeon pea | Variety introduction | Introduction of red gram variety TS-3R | | 25 | 10 | 4.48 | 2.50 | 79.20 | - | - | - | 7240 | 33600 | 26360 | 4.48 | 5250 | 19725 | 14475 | 2.63 |
| Bengalgram | Variety introduction | Introduction of Bengalgram var. BGD-103 and JG-11 | | 7 | 2.8 | 9.6 | 7.6 | 26 | Wilt incidence (%) | 5-6 | 10-12 | 16000 | 42975 | 26975 | 2.7 | 16000 | 34087 | 18087 | 2.13 |
| | | | | 5 | 2 | 7.8 | 6.6 | 18 | | | | 16000 | 34875 | 18875 | 2.18 | 16000 | 27112 | 11112 | 1.70 |
| **Vegetables** | | | | | | | | | | | | | | | | | | | |
| Onion | IDM | Management of purple leaf blotch disease in Onion | | 12 | 05 | 248.2 | 186.75 | 32.8 | % reduction incidence | 80 | 65 | 24975 | 173600 | 148615 | 6.9 | 22595 | 130725 | 108130 | 5.7 |
| Tomato | Variety introduction | New tomato hybrid DMT-2 | | 05 | 02 | Vitiated due to fluctuation in irrigation facility | | | | | | | | | | | | | |
| **Fruit** | | | | | | | | | | | | | | | | | | | |
| Banana | ICM | Popularization of Banana special and Management of leaf spot disease in Banana | | 10 | 04 | 56.0 | 48.63 | 15.17 | Finger weight (kg) | 1.24 | 1.08 | 137500 | 335000 | 197500 | 2.43 | 125000 | 297500 | 172500 | 2.30 |
| **Fibres like Cotton** | | | | | | | | | | | | | | | | | | | |
| Cotton | IPM | Management of Sucking pests in Cotton | | 12 | 05 | 18.8 | 14.1 | 33.3 | % reduction in pests | 78 | 33 | 33385 | 75200 | 41815 | 2.25 | 19595 | 56400 | 26805 | 2.88 |
| **Fodder** | | | | | | | | | | | | | | | | | | | |
| Fodder | Fodder crops | Popularization of fodder varieties COFS-29 Co-3 Cowpea Leucerne | | 05 | 01 | 540 | - | - | - | - | - | 15100 | 43200 | 28100 | 2.86 | - | - | - | - |
| | | | | 05 | 01 | 660 | - | - | - | - | - | 15100 | 51200 | 36100 | 3.39 | - | - | - | - |
| | | | | 05 | 01 | 220 | - | - | - | - | - | 5628 | 2200 | 16372 | 3.90 | - | - | - | - |
| | | | | 05 | 01 | 447.5 | - | - | - | - | - | 8200 | 22375 | 14375 | 2.72 | - | - | - | - |
| | | **Total** | | **232** | **96.4** | | | | | | | | | | | | | | |

**Livestock**

| Category | Thematic area | Name of the technology demonstrated | No. of KVKs | No. of Farmer | No.of units | Major parameters | | % change in major parameter | Other parameter | | | Economics of demonstration (Rs.) | | | | Economics of check (Rs.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Demonstration | Check | | | Demonstration | Check | Gross Cost | Gross Return | Net Return | BCR | Gross Cost | Gross Return | Net Return | BCR |
| **Dairy** | Dairy | Supplementation of by-pass FAT in post calving dairy cows | | 05 | 05 | 14.5 | 12 | 20.83 | Increase in conceiving rate (%) | 20 | 05 | 26750 | 34800 | 8050 | 1.30 | 25000 | 28800 | 3800 | 1.15 |
| | | | | | | | | | Inter calving period (days) | 320 | 400 | | | | | | | | |
| **Poultry** | Poultry | TANUVAS-Oral pellet vaccine to control ranikhet diseases in broilers | | 02 | 02 | - | - | - | Reduction of % disease | 95 | 00 | - | - | - | - | - | - | - | - |
| | **Total** | | | **07** | **07** | | | | | | | | | | | | | | |

**Fisheries -Nil**

**Other enterprises -Nil**

**Women empowerment -Nil**

**Farm implements and machinery**

| Name of the implement | Crop | Name of the technology demonstrated | No. of KVKs | No. of Farmer | Area (ha) | Filed observation (output/man hour) | | % change in major parameter | Labor reduction (man days) | | | | Cost reduction (Rs./ha or Rs./Unit ect.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Demonstration | Check | | | | | | | | | |
| Tractor operated Automatic seed drill | Groundnut | Mechanization in sowing of groundnut | | 10 | 04 | 03 | 12 | 300 | 03 | 12 | 00 | 00 | 825 | 00 | 00 | 00 |

**Other enterprises**

**Demonstration details on crop hybrids**

| Crop | Name of the Hybrid | No. of farmers | Area (ha) | Yield (kg/ha) / major parameter | | | Economics (Rs./ha) | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Demonst-ration | Local check | % change | Gross Cost | Gross Return | Net Return | BCR |
| **Cereals** | | | | | | | | | | |
| Maize | NAH1137 | 12 | 05 | 43.8 | 42.0 | 4.3 | 22500 | 71190 | 48690 | 3.16 |
| Maize | CP818 | 16 | 6.4 | 37.75 | 36.10 | 4.57 | 33500 | 58512 | 25012 | 1.75 |
| | **Total** | **28** | **11.4** | | | | | | | |
| **Vegetable crops** | | | | | | | | | | |
| Tomato | DMT-2 | 05 | 02 | Under progress | | | | | | |
| **Total** | | **05** | **02** | | | | | | | |
| **Commercial crops** | | | | | | | | | | |
| Others | | | | | | | | | | |
| Cotton | Bt-Cotton | 12 | 05 | 18.8 | 14.1 | 33.3 | 33385 | 75200 | 41815 | 2.25 |
| | **Total** | **12** | **05** | | | | | | | |

## IV. Training Programme

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

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| **Crop Production** | | | | | | | | | | |
| Cropping Systems | 2 | 23 | 0 | 23 | 04 | 0 | 04 | 27 | 0 | 27 |
| Seed production | 2 | 12 | 0 | 12 | 15 | 5 | 20 | 27 | 5 | 32 |
| Integrated Crop Management | 2 | 42 | 0 | 42 | 12 | 0 | 12 | 54 | 0 | 54 |
| Integrated Nutrient Management | 1 | 0 | 0 | 0 | 20 | 0 | 20 | 20 | 0 | 20 |
| Production of organic inputs | 1 | 12 | 0 | 12 | 14 | 0 | 14 | 26 | 0 | 26 |
| **Soil Health and Fertility Management** | | | | | | | | | | |
| Production and use of organic inputs | 1 | 30 | 0 | 30 | 0 | 0 | 0 | 30 | 0 | 30 |
| Soil and water testing | 3 | 77 | 0 | 77 | 0 | 0 | 0 | 77 | 0 | 77 |
| **Livestock Production and Management** | | | | | | | | | | |
| Dairy Management | 3 | 2 | 62 | 64 | 4 | 10 | 14 | 6 | 72 | 78 |
| Poultry Management | 4 | 49 | 40 | 89 | 12 | 9 | 21 | 61 | 49 | 110 |
| **Production of Inputs at site** | | | | | | | | | | |
| Seed Production | 5 | 22 | 0 | 22 | 35 | 5 | 40 | 57 | 5 | 62 |
| **TOTAL** | **24** | **269** | **102** | **371** | **116** | **29** | **145** | **385** | **131** | **516** |

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

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| **Crop Production** | | | | | | | | | | |
| Integrated Crop Management | 4 | 90 | 21 | 111 | 48 | 11 | 59 | 138 | 32 | 170 |
| IFS | 3 | 0 | 0 | 0 | 68 | 0 | 68 | 68 | 0 | 68 |
| **Soil Health and Fertility Management** | | | | | | | | | | |
| Soil fertility management | 1 | 40 | 0 | 40 | 0 | 0 | 0 | 40 | 0 | 40 |
| Production and use of organic inputs | 1 | 52 | 0 | 52 | 0 | 0 | 0 | 52 | 0 | 52 |
| Soil and water testing | 32 | 3499 | 326 | 3825 | 454 | 177 | 631 | 3953 | 503 | 4456 |
| **Livestock Production and Management** | | | | | | | | | | |
| Dairy Management | 1 | 30 | 1 | 31 | 5 | 2 | 7 | 35 | 3 | 38 |
| Animal Nutrition Management | 5 | 88 | 30 | 118 | 24 | 0 | 24 | 112 | 30 | 142 |
| Animal Disease Management | 3 | 61 | 4 | 65 | 9 | 1 | 10 | 70 | 5 | 75 |
| Feed and Fodder technology | 6 | 195 | 30 | 225 | 55 | 10 | 65 | 250 | 40 | 290 |

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| **Home Science/Women empowerment** | | | | | | | | | | |
| Household food security by kitchen gardening and nutrition gardening | 2 | 28 | 29 | 57 | 15 | 13 | 28 | 43 | 42 | 85 |
| Location specific drudgery production | 1 | 9 | 4 | 13 | 11 | 0 | 11 | 20 | 4 | 24 |
| **Plant Protection** | | | | | | | | | | |
| Integrated Pest Management | 1 | 70 | 0 | 70 | 0 | 0 | 0 | 70 | 0 | 70 |
| Integrated Disease Management | 18 | 901 | 65 | 966 | 233 | 20 | 253 | 1134 | 85 | 1219 |
| **Production of Inputs at site** | | | | | | | | | | |
| Seed Production | 04 | 48 | 0 | 48 | 55 | 3 | 58 | 103 | 3 | 106 |
| Others | | | | | | | | | | |
| IFS | 1 | 0 | 0 | 0 | 18 | 0 | 18 | 18 | 0 | 18 |
| **TOTAL** | **83** | **5111** | **510** | **5621** | **995** | **237** | **1232** | **6106** | **747** | **6853** |

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

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Any other | | | | | | | | | | |
| Soil and Water Conservation | 1 | 35 | 30 | 65 | 0 | 0 | 0 | 35 | 30 | 65 |
| **TOTAL** | **1** | **35** | **30** | **65** | **0** | **0** | **0** | **35** | **30** | **65** |

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

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

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

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Household food security | 1 | 0 | 12 | 12 | 0 | 11 | 11 | 0 | 23 | 23 |
| Any other | | | | | | | | | | |
| Soil and Water Testing | 2 | 45 | 4 | 49 | 6 | 6 | 12 | 51 | 10 | 61 |
| **Total** | **3** | **45** | **18** | **61** | **6** | **17** | **23** | **51** | **43** | **84** |

**Sponsored training programmes : Nil**

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

| S.No. | Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | General | | | SC/ST | | | Grand Total | | |
| | | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| **4.** | **Income generation activities** | | | | | | | | | | |
| 4.i. | Tailoring, stitching, embroidery, dying etc. | 01 | 0 | 17 | 17 | 0 | 02 | 02 | 0 | 19 | 19 |
| | **Grand Total** | **01** | **0** | **17** | **17** | **0** | **02** | **02** | **0** | **19** | **19** |

## V. Extension Programmes

| Activities | No. of programmes | No. of farmers | No. of Extension Personnel | TOTAL |
|---|---|---|---|---|
| Advisory Services | 208 | 208 | 12 | 220 |
| Diagnostic visits | 2 | 2 | 6 | 8 |
| Field Day | 2 | 165 | 2 | 167 |
| Group discussions | 0 | 0 | 0 | 0 |
| Kisan Ghosthi | 0 | 0 | 0 | 0 |
| Film Show | 1 | 0 | 2 | 2 |
| Self -help groups | 0 | 0 | 0 | 0 |
| Kisan Mela | 3 | 160 | 10 | 170 |
| Exhibition | 2 | 310 | 140 | 450 |
| Scientists' visit to farmers field | 63 | 520 | 0 | 520 |
| Plant/animal health camps | 1 | 120 | 5 | 125 |
| Farm Science Club | 0 | 0 | 0 | 0 |
| Ex-trainees Sammelan | 0 | 0 | 0 | 0 |
| Farmers' seminar/workshop | 2 | 244 | 6 | 250 |
| Method Demonstrations | 13 | 316 | 43 | 359 |
| Celebration of important days | 0 | 0 | 0 | 0 |
| Special day celebration | 1 | 70 | 2 | 72 |
| Exposure visits | 1 | 13 | 1 | 14 |
| Others (pl.specify) | | | | |
| Campaign | 2 | 130 | 8 | 138 |
| Animal show | 2 | 68 | 25 | 93 |
| Krishi Andolana | 4 | 686 | 6 | 692 |
| Krishi Uthsava | 4 | 770 | 284 | 1054 |
| Scientist farmers interaction | 5 | 580 | 84 | 664 |
| Lectures delivered as resource persons | 34 | 1031 | 221 | 1252 |
| Farmers visit to KVK | 129 | 131 | 0 | 131 |
| **Total** | **271** | **5316** | **845** | **6161** |

**Details of other extension programmes**

| Particulars | Number |
|---|---|
| Electronic Media | 00 |
| Extension Literature | 10 |
| News Letter | 00 |
| News paper coverage | 04 |
| Technical Articles | 00 |
| Technical Bulletins | 02 |
| Technical Reports | 00 |
| Radio Talks | 00 |
| TV Talks | 00 |
| Animal health amps (Number of animals treated) | 236 |
| Others (pl.specify) | 00 |
| **Total** | **252** |

## PRODUCTION OF SEED/PLANTING MATERIAL

**Production of seeds by the KVKs**

| Crop category | Name of the crop | Name of the variety (if hybrid pl. specify) | Quantity of seed (q) | Value (Rs) | Number of farmers |
|---|---|---|---|---|---|
| Cereals | Sorghum | Anuradha | 0.68 | 3264 | 4 |
| Cereals | Sorghum | M-35-1 | 1.07 | 5136 | 3 |
| Cereals | Maize | SAT | 9.5 | 14250 | 1 |
| Oilseeds | Groundnut | DH-86 | 0.25 | 1200 | 1 |
| Oilseeds | Groundnut | GPBD 4 | 13.28 | 77554 | 7 |
| Oilseeds | Groundnut | GPBD 5 | 16.85 | 106662.5 | 8 |
| Pulses | Cowpea | C-1-52 | 0.2 | 1140 | 1 |
| Pulses | Red gram | BSMR 736 | 6.905 | 54549.5 | 63 |
| Pulses | Horse gram | GPM-6 | 3 | 6300 | 1 |
| Others | | | | | |
| Millets | Foxtail millet | HMT-100-1 | 0.43 | 1032 | 1 |
| Millets | Little millet | Sukshema | 3 | 6900 | 1 |
| **Total** | | | **55.165** | **277988** | **91** |

**Production of planting materials by the KVKs**

| Crop category | Name of the crop | Name of the variety (if hybrid pl. specify) | Number | Value (Rs.) | Number of farmers |
|---|---|---|---|---|---|
| Fruits | Sapota | DSH-1 | 273 | 10920.00 | 23 |
| Fruits | Sapota | DSH-2 | 295 | 11800.00 | 23 |
| Spices | Curry leaf | Suvasini | 5770 | 46160.00 | 26 |
| **Total** | | | **6338** | **68880.00** | **72** |

**Production of Bio-Products : Nil**

**Production of livestock and related enterprise materials Nil**

## II. DETAILS OF SOIL, WATER AND PLANT ANALYSIS 2012-13

| Samples | No. of Samples | No. of Farmers | No. of Villages | Amount realized (Rs.) |
|---|---|---|---|---|
| Soil | 3906 | 3892 | Max 375 | 244050.00 |
| Water | 3369 | 3362 | Max 358 | 173750.00 |
| **Total** | **7275** | **7254** | **Max 375** | **417800.00** |

# VIII. SCIENTIFIC ADVISORY COMMITTEE

| Number of SACs conducted |
|---|
| 02 |

## IX. NEWSLETTER-Nil

## X. RESEARCH PAPER PUBLISHED: Nil

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

| Activities conducted | | | | |
|---|---|---|---|---|
| No. of Training programmes | No. of Demonstration s | No. of plant materials produced | Visit by farmers(No.) | Visit by officials(No.) |
| - | - | 6338 | 200 | 50 |