# ZONAL PROJECT DIRECTORATE – ZONE VIII BANGALORE
## ACTION PLAN OF KVKs IN ZONE VIII FOR 2016-17

**1. General information about the Krishi Vigyan Kendra**

| | | | |
|---|---|---|---|
| 1.1 | Name and address of KVK with Phone, Fax and e-mail | : | **Krishi Vigyan Kendra, Hanumanamatti,** Ranebennur Taluk, Haveri District, Karnataka State<br>Ph: 08373-253524<br>Fax: 08373-253524<br>Email: kvk_haveri@rediffmail.com |
| 1.2 | Name and address of host organization | : | University of Agricultural Sciences, Krishi Nagar, Dharwad |
| 1.3 | Year of sanction | : | 1976 |
| 1.4 | Website address of KVK and date of last update | : | www.kvkhaveri.org and last updated on 28.01.2016 |

**2. Details of staff as on date 29.02.2016**

| Sl. No. | Sanctioned post | Name of the incumbent | Discipline | Current Pay Band | Current Grade Pay | Date of joining | If Temporary, pl. indicate the consolidated amount paid (Rs./month) |
|---|---|---|---|---|---|---|---|
| 2.1 | Programme Coordinator | Sarojani Karakannavar | Home Science | 37400-61000 | 10000 | 08.07.14 | |
| 2.2 | Subject Matter Specialist | D.S.M. Gowda | Ag. Engg | 37400-61000 | 9000 | 09.06.11 | |
| 2.3 | Subject Matter Specialist | S.A. Ashtaputre | Plant Pathology | 37400-61000 | 9000 | 11.06.11 | |
| 2.4 | Subject Matter Specialist | S.Y. Mukartal * | Animal Science | 15600-39100 | 6000 | 06.07.09 | |
| 2.5 | Subject Matter Specialist | Geeta S. Tamgale | Home Science | 15600-39100 | 6000 | 01.07.09 | |
| 2.6 | Subject Matter Specialist | Dr. Archana B.B. | Horticulture | - | - | 27.07.15 | 21000/- |
| 2.7 | Subject Matter Specialist | Vacant | Agronomy | - | - | - | - |
| 2.8 | Programme Assistant | C. P. Hiremath | Prog. Asst.(Lab) | 9300-34800 | 4200 | 01. 07.15 | |
| 2.9 | Computer Programmer | Rekha K. N. | Prog. Asst. (Computer) | 9300-34800 | 4200 | 12.11.08 | |
| 2.10 | Farm Manager | Sairabanu M | Farm Manager | 9300-34800 | 4200 | 02.07.09 | |
| 2.11 | Accountant/Superintendent | Kavita S Lohar | Assistant | 16000-29600 | - | 23.07.15 | |
| 2.12 | Stenographer | Vacant | - | - | - | - | |
| 2.13 | Driver 1 | Bellappa N Indaragi | Driver (LMV) | 11600-21000 | - | 16.02.15 | |
| 2.14 | Driver 2 | Vacant | - | - | - | - | |
| 2.15 | Supporting staff 1 | Ramachandrappa Kuriyavar ** | Cook cum caretaker | 11600-21000 | - | 15.06.15 | |
| 2.16 | Supporting staff 2 | K. B. Belakeri | Supporting staff Grade-II | 10400-16400 | - | 01.07.02 | |

*** On Study leave for Ph.D** **** Working at UAS, Dharwad**

**3. Details of SAC meeting conducted during 2016-17**

| Sl.No | Date | Major recommendations | Status of action taken in brief | Tentative date of SAC 2016-17 |
|---|---|---|---|---|
| | **09.09.2015** | | | **September-2016** |

**3.1 Suggested to implement UASD released new technologies as FLD during Rabi season**

Implemented cluster FLD on Groundnut (GPBD-5) 30 demonstrations, Chickpea (JG-11) 30 demonstration, Sunflower(RSFH-130) 60 demonstration, with use of bio agents like Trichoderma as seed treatment in pulses & oil seeds to reduce root rot diseases, similarly created awareness about new transplanting method & variety (SNK-07680) in sugarcane through FLD (SSI method), Sorghum (SPV-2217) 30 demonstration

**3.2 Suggested to arrange 1 day workshop on drought proofing technique in Rabi crops**

Off campus training on sorghum and during bi-monthly workshop, training & demonstration on drought management in Rabi sorghum by seed treatment with $CaCl_2$ was conducted at Byadgi on 07.09.2015. drought management related discussions were covered in Bi-monthly workshop.

**3.3 Suggested to conduct awareness programme on water management and groundwater recharge & stressed to publish articles on ground water recharge**

Conducted awareness programme on water management and ground water recharge in on campus & off campus training programmes and published two article on the above.

| Sl. No. | Date | Place | No. of farmers participated |
|---|---|---|---|
| **On Campus** | | | |
| 1. | 10.09.2015 | KVK | 16 |
| 2. | 05.11.2015 | KVK | 28 |
| 3. | 08.12.2015 | KVK | 08 |
| 4. | 07.12.2015 | KVK | 35 |
| 5. | 23.12.2015 | KVK | 17 |
| 6. | 31.12.2015 | KVK | 13 |
| **Off Campus** | | | |
| 7. | 15.10.2015 | Budapanahalli | 30 |
| 8. | 04.11.2015 | Halagi | 15 |
| 9. | 10.12.2015 | Hiremadapura | 30 |

| Sl. No. | Date | Place | Consultancy |
|---|---|---|---|
| 1. | 22.02.2016 | Kadramanadalagi | Provided Borwell recharging structure and estimation |

| Sl. No. | Title of the article | Published in | Month year |
|---|---|---|---|
| 1. | Under ground water recharge in borewells | Adike patrike | Sept-2015 |
| 2. | Methods of irrigation for Judicious use of Natural resources | Sharada Krishi | Sept-2015 |
| 3. | Importance of Drainage in alkaline and saline soils | Sujatha sanchike | Oct-2015 |

**3.4 Suggested to conduct awareness programmes on biodiesel plants production technologies**

Organized one awareness programme on use of biodiesel plant production technologies in collaboration with Biodiesel project at Agricultural College , Hanumanamatti Date: 30.10.2015

**3.5 Suggested to deliver wide publicity on technologies and demonstrations every month at KVK, Hanumanamatti**

Delivered wide publicity on new technologies & demonstration every month through SMS, Popular articles

| Sl. No. | Title of the article | Published in | Month year |
|---|---|---|---|
| 1. | Under ground water recharge in borewells | Adike patrike | Sept-2015 |
| 2. | Methods of irrigation for Judicious use of Natural resources | Sharada Krishi | Sept-2015 |
| 3. | Importance of Drainage in alkaline and saline soils | Sujatha sanchike | Oct-2015 |
| 4. | Soil conservation practices | Krishi Munnade | Sept-2015 |
| 5. | Management of chilli diseases | Krishi Munnade | Dec-2015 |
| 6. | Management of leaf curl of chilli | Siri Samrudi | Nov-2015 |

**3.6 Suggested to conduct Workshop on new agricultural technologies for NGO working at Haveri district**

To be implemented

**3.7 Suggested to conduct trainings for SHG women in collaboration with department of Women welfare and child development .**

To be implemented

**3.8 Suggested to publish on technological aspects of existing FLD's in farmers fields**

Following FLD related topics published in various magazines & Leaf lets

| Sl. No. | Title of the article | Published in | Month year |
|---|---|---|---|
| 1. | Management of chilli diseases | Krishi Munnade | Dec-2015 |
| 2. | Management of leaf curl of chilli | Siri Samrudi | Nov-2015 |
| 3. | Onion varieties and crop management | Folder | Feb-2016 |

**3.9 Encourage to takeup alternate crops for maize**

Encouraged & created awareness programme for alternate crops for maize during on, off campus training & field visit, details of contingent crop planning

information was given during bi-monthly workshop .

**3.10 Encourage to grow cowpea as intercrop along with sugarcane and Soybean**

Suggested to grow cowpea & soybean as intercrop along with sugarcane during off campus training and field visit

**3.11 Give wide publicity on processing of foxtail millet and value added products of millets**

Training programmes conducted on processing of foxtail millet on 07.12.2015 at Mugali, Tq: Shiggaon 30 farmers participated. Preparation of foxtail & finger millet vermicelli popularized through FLD .

**Exhibition organized on value added millet products**

| Sl. No, | Date | Place |
|---|---|---|
| 1 | 27-30, Sept-2015 | Krishi Mela, KVK, Stall at UAS, Dharwad |
| 2 | 19-22, November-2015 | Krishi Mela at UAS,Bengaluru |
| 3 | 05.12.2015 | KVK, Hanumanamatti |

**3.12 Subscribe at least 1000 farmers for Krishi Munnade magazine**

To be implemented

**3.13 Conduct programmes on terrace cultivation in collaboration with department of Horticulture and other line department**

To be implemented

**3.14 Awareness programmes on Honey bee cultivation**

To be implemented

**3.15 Suggested to take up FLDs on Mango fruit fly near Hangal area**

To be implemented

**3.16 Enhance production of vermicompost and trichoderma**

| Vermicompost Production | | |
|---|---|---|
| **Sl. No.** | **Month** | **Production (kg)** |
| 1. | Dce-15 | 500 kg |

| Trichoderma Production | | |
|---|---|---|
| **Sl. No.** | **Month** | **Production (kg)** |
| 1. | December-2014 | 38 |
| 2. | January-2015 | 55 |
| 3. | March-2015 | 60 |
| 4. | May-2015 | 40 |
| 5. | June-2015 | 35 |
| 6. | July-2015 | 60 |
| 7. | August-2015 | 69 |
| 8. | Sept-2015 | 90 |
| 9. | Oct-2015 | 30 |
| 10. | Nov-2015 | 20 |
| 11. | Dec-2015 | 40 |
| 12. | Jan-2016 | 55 |

**3.17 Suggested to arrange SAC meeting before Kharif and Conduct yearly twice**

Planned for SAC meeting before kharif and conducted yearly twice

**3.18 Conduct awareness programmes on Agril. engineering particularly on crop harvesting and weed cutting**

Under progress

**3.19 Conduct demonstrations on crop management in chilli and tomato**

Conducted demonstration on chilli & tomato through FLD

| Sl. No. | FLD title | No. of Demo. | Village |
|---|---|---|---|
| 1. | Management of mite & sucking pests causing chilli leaf curl | 10 | Masur, Nidanegla |
| 2. | Demonstration of Tomato variety Arka Rakshak | 10 | Asundi, Chatra |

**3.20 Suggested to create awareness about millet processing equipments under INSIMP project and to formulate proper guide lines for farmers use. Further register the name of the famers who have utilized these equipments**

Under progress

**3.21 Suggested to grow Anjana grass in hilly zones and transplant tamarind seedlings all along path and to create awareness about value addition of tamarind.**

To be implemented during coming kharif 2016

**3.22 Conduct more demonstrations at farmers field**

**a. On Farm Testing (OFT)**

| Sl.No. | Crop | Title | Number |
|---|---|---|---|
| 1 | Groundnut | Assessment of Groundnut variety Dh-101(R/S) | 5 |
| 2 | Onion | Thrips & purple blotch management in onion (K) | 5 |
| | | **Total** | **10** |

**b. Frontline Demonstration (FLD)**

| Sl.No. | Crop | Title | Number |
|---|---|---|---|
| 1. | Niger | Demonstration of Niger variety DNS-4(K) | 10 |
| 2. | Sugarcane | Demonstration of Sustainable Sugarcane Initiative (SSI) | 3 |
| 3. | Onion | Demonstration of onion variety of Agri found Light red | 20 |
| 4. | Tomato | Demonstration of Tomato variety Arka Rakshak | 10 |
| 5. | Cowpea | Demonstration of cowpea variety Khasi Kanchan | 5 |
| 6. | Chilli | Management of mite & sucking pests causing chilli leaf curl (R/S) | 10 |
| 7. | Foxtail millets | Demonstration of Foxtail millet vermicelli as an IGA Activity | 5 |
| 8. | Finger millets | Demonstration of Finger millet vermicelli as an IGA | 5 |
| | | **Total** | **68** |

**c. NFSM (Technology Demonstrations)**

| Sl.No. | Crop | Title | Number |
|---|---|---|---|
| 1. | Sorghum | Popularization of Rabi sorghum variety SPV-2217 | 30 |
| 2. | Foxtail millet | Popularization of foxtail millet variety DHFt-109-3 | 17 |
| 3. | Little millet | Popularization of Little millet variety DHLt-36-3 | 20 |
| | | **Total** | **67** |

**d. Cluster Rabi FLD :**

| Sl.No. | Crop | Number |
|---|---|---|
| 1 | Bengal gram | 30 |
| 2 | Groundnut | 30 |
| | **Total** | **60** |

**e. Demonstration on BMPs (Sunflower)**

| Sl.No. | Crop | Locations (One acre each) | Qty (kg) | Remarks |
|---|---|---|---|---|
| 1 | Sunflower | 60 | 120 | Implemented |

**3.23 Introduce HF cross breeds of cattle in dairy unit**

To be implemented during 2016

**3.24 Suggested to Initiate Goat rearing unit**

To be implemented during 2016

**3.25 Convince farmers to grow more pigeon pea instead of maize and arrange more demonstration on pigeon pea**

To be implemented during 2016

**3.26 Popularization of non flowering sugarcane varieties released by UAS, Dharwad**

Popularized non flowering variety in sugarcane (SNK-07680) released by UAS, Dharwad through FLD during 2014 & 2015

**4. Capacity Building of KVK Staff**

**4.1. Plan of Human Resource Development of KVK personnel during 2016-17**

| S. No | New Areas of Training | Institution proposed to attend | Justification |
|---|---|---|---|
| 4.1.1 | RS and GIS (21 days) | NRSA, Nagpur | Futuristic approach |
| 4.1.2 | Carbon sequestration (21 days) | CRRI, Katak | Educate farmers on Carbon management |
| 4.1.3 | • Dynamic web page designing<br>• Technology model development<br>• Multimedia designing | - | Needs up gradation |
| 4.1.4 | Personality development | KKID, Coimbatore | Personality development |
| 4.1.5 | Building alliance through team ship | KKID, Coimbatore | To build team building skills |
| 4.1.6 | Value addition to minor millets | CFTRI, Mysore | To learn value addition technologies |
| 4.1.7 | Process documentation for development personnel | NAARM, Hyderabad | To learn documentation techniques for KVK activities |
| 4.1.8 | Soil testing kits updates | IARI, New Delhi | Documentation & Soil testing |

**4.2. Cross-learning across KVKs during 2016-17**

| S. No | Name of the KVK proposed | Specific learning areas |
|---|---|---|
| 4.2.1 | Within ring – KVK, Gadag, Sirsi, Bijapur<br>Dharwad | Skills in extension training, Value addition to Minor millets and Amla<br>Seeds, planting materials, fodder slip, cultivation practices of Arecanut and medicinal aromatic plants<br>Formation of commodity groups |
| 4.2.2 | Within the zone – KVK, Dharmavaram,<br>Shimoga, Chitradurga | Precision farming<br>Skills in extension training<br>Sharing of knowledge in crop science |
| 4.2.3 | Outside zone – KVK, Baramati | Soil data management and software |

**5. Proposed cluster of KVKs to be formed for sharing knowledge/expertise, resources and activities during 2016-17**

| S. No. | Name of the KVKs included in the cluster | What do you intend to share with Cluster KVKs | What do you expect from Cluster KVKs |
|---|---|---|---|
| 5.1 | KVK, Gadag, Dharwad, | Extension skills, dry land agriculture, seeds, millets processing & Animal Science | Extension skills, dry land agriculture, seeds |
| 5.2 | KVK, Davanagere | Seeds, fertilizer, seedlings and Banana special | Seeds, fertilizer, seedlings |
| 5.3 | KVK, Shimogga | Seeds, transplanting technology in rice and Animal Science | Seeds, transplanting technology in rice |
| 5.4 | KVK, Uttara Kannada | Seeds, planting materials, fodder slip, cultivation practices of Arecanut and medicinal aromatic plants. | Seeds, seedlings, fodder |
| 5.6 | KVK, Hiriyur | Soil & water management skills & farmers contact | Ways & Means Farmers contact for impact study of soil & water management. |

**6 . Operational areas details proposed during 2016-17**

| S. No. | Major crops & enterprises | Prioritized problems in these crops/ enterprise | Extent of area (Ha/No.) affected by the problem in the district | Names of Cluster Villages | Proposed Intervention |
|---|---|---|---|---|---|
| 6.1 | Onion | Severe thrips & purple blotch infestation reducing the yield | 350 ha | • Asundi (Ranebennur) | OFT |
| 6.2 | Maize | Deficiency of micro nutrients and including boron role in Maize | 80 ha | • Suthakatte (Hirekerur) | OFT |
| 6.3 | Sorghum | • Low yield due to use of local variety<br>• Lodging and poor fodder quality | 8000 ha | • Asundi (Ranebennur)<br>• Lakamajikoppa (Byadgi) | FLD |
| 6.4 | Foxtail millets | • Low yield<br>• Lack of awareness on new varieties | 3057 ha | • Basapura (Haveri)<br>• Itagi (Ranebennur) | FLD |
| 6.5 | Little millets | • Low yield<br>• Lack of awareness on new varieties | 3057 ha | • Basapura (Haveri) | FLD |
| 6.6 | Groundnut (R) | • Low yield<br>• Lack of awareness on new variety | 5500 ha | • Hosakatti (Hirekerur) | FLD |
| 6.7 | Sunflower (R/S) | • Low yield<br>• Susceptible to Necrosis | 200 | • Hiremadapura (Hirekerur) | FLD |
| 6.8 | Greengram (R/s) | • Low yield due to use of local variety<br>• Lack of uniform maturity | 250 ha | • Itagi (Ranebennur)<br>• Asundi (Ranebennur) | FLD |
| 6.9 | Onion | • Low yield (160-180q/ha) in local varieties needs replacement of varieties<br>• High incidence purple blotch | 100 ha | • Itagi (Ranebennur)<br>• Asundi (Ranebennur) | FLD |
| 6.10 | Gaillardia | • Low yield<br>• Poor shelf life | 20 ha | • Asundi (Ranebennur)<br>• Lakamajikoppa (Byadgi) | FLD |
| 6.11 | Mango | • Flower dropping<br>• Fruit dropping<br>• Powdery mildew incidence<br>• Low yield due to poor fruit set. | 120 ha | • Hangal (Hangal) | FLD |
| 6.12 | Chilli | • Low yield (50-60 q/ha green chilli) due to high incidence of leaf curl<br>• Indiscriminate use of pesticides | 250 ha | • Asundi (Ranebennur)<br>• Lakamajikoppa (Byadgi) | FLD |
| 6.13 | Fodder Bank | • Low productivity of milk due to non feeding of green fodder | 1000 ha | • Itagi (Ranebennur)<br>• Asundi (Ranebennur) | FLD |
| 6.14 | Nutrition garden | • Malnutrition in school children | Nil | • Itagi (Ranebennur)<br>• Magod (Ranebennur)<br>• Basapura (Haveri) | FLD |

| S. No. | Major crops & enterprises | Prioritized problems in these crops/ enterprise | Extent of area (Ha/No.) affected by the problem in the district | Names of Cluster Villages | Proposed Intervention |
|---|---|---|---|---|---|
| | | | | • Hanumanamatti (Ranebennur) | |
| 6.15 | Foxtail & Finger millet Vermicelli | Lack of awareness on production technology | - | • Aladakatti (Haveri)<br>• Basapura (Haveri) | FLD |
| 6.16 | Chickpea | • Lack of awareness on new varieties<br>• Low yield (5-7.5 q/ha), Incidence of wilt (12%) | 3500 ha | • Motebennur (Byadgi)<br>• Marola (Haveri) | Cluster FLD |
| 6.17 | Groundnut (R/s) | • Lower yield<br>• Susceptible to leaf spot & rust<br>• Lack of uniform maturity<br>• Decreasing productivity in groundnut in Rabi season | 5500 ha | • Kodamagi (Hirekerur)<br>• Veerapura (Hirekerur) | Cluster FLD |

**7. Technology Assessment during 2016-17**

| S. No. | Crop | Prioritized problem | Title of intervention | Technology options | Source of Technology | Name of critical input | Qty per trial | Cost per trial | No. of trials | Total cost (Rs.) | Parameters to be studied | Team members |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7.1 | Onion (K) | Severe thrips & purple blotch infestation in onion | Thrips & purple blotch management in onion (K) | Farmers' practice | | | | - | 05 | 6500 | • Pest & disease intensity<br>• Yield (q/ha)<br>• Economics | • Pl Pathology<br>• Horticulture<br>• Agronomy |
| | | | | 2 sprays of *Lecanicilium lecani* @ 2 g /L + Sol. Boron @1g/L | NRC for Onion & Garlic, Rajgurunagar(Pune) | *Lecanicillium lecanii* | 1 kg | 200 | | | | |
| | | | | | | Sol. Boron | 250g | 150 | | | | |
| | | | | 2 sprays of Fipronil @ 1 ml/L + Difenconazole (1 ml/L ) + Sol. Boron @1g/L | NRC for Onion & Garlic, Rajgurunagar(Pune) | Fipronil | 250 ml | 500 | | | | |
| | | | | | | Difenconazole | 250 ml | 300 | | | | |
| | | | | | | Sol. Boron | 250g | 150 | | | | |
| | | | | | | | **Total** | **1300** | | | | |
| **7.2** | **Maize** | Deficiency of micro nutrients and including boron role in Maize | Response of Soil and foliar application of micro nutrients (Zn, Fe & Bo) | Farmers' practice | - | - | - | - | 02 | 6200 | • Yield components ( No. of grains/cob, Cob length & cob girth)<br>• Yield (q/ha)<br>• Economics | • Agronomy<br>• Pl Pathology |
| | | | | RPP (Soil application of $ZnSo_4$+ $FeSo_4$ + FYM) | UAS, Dharwad | Zinc sulphate | 10 kg/ac | 800 | | | | |
| | | | | | | Ferrous sulphate | 10 kg/ac | 500 | | | | |
| | | | | RDF + Soil application 4 kg /ha borax + Foliar application of 0.5% Znso4 + 0.5% $FeSo_4$ + 0.1 % borax @ 30 & 45 days | TNAU | Zinc sulphate | 10 kg/ac | 800 | | | | |
| | | | | | | Ferrous sulphate | 10 kg/ac | 500 | | | | |
| | | | | | | Borax (10.5 %) | 04 kg/ac | 500 | | | | |
| | | | | | | | **Total** | **3100** | | | | |

**No. of OFTs:02** **Total Amount : Rs. 12700/-**

**8. Technology Refinement during 2016-17 : Nil**

**9. Frontline Demonstrations during 2016-17**

| S. No. | Category | Crop/ enterprise | Prioritized problem | Technology to be demonstrated | Hybrid /Variety | Name of the Hybrid /Variety | Source of Technology | Name of critical input | Qty per Demo | Cost per Demo | No. of Demo | Total cost for the Demo (Rs.) | Parameters to be studied | Team members |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.1 | **Cereals** | **Sorghum** | • Low yield due to use of local variety<br>• Lodging and poor fodder quality | Demonstration of rabi sorghum variety SPV-2217 | Variety | SPV-2217 | UAS Dharwad | Seeds<br>Trichoderma<br>**Total** | 3 kg/ac<br>12 gm<br>**Total** | 200<br>100<br>**300** | 10 | 3000 | • Per cent lodging (charcoal rot)<br>• Yield (q/ha)<br>• Fodder Yield &qlty<br>• Economics | • Agronomy<br>• Pl. Pathology<br>• Sr. Scientist<br>• Ag. Engg. |
| 9.2 | **Millets** | **Foxtail millet (K)** | • Low yield<br>• Lack of awareness on new variety | Demonstration of foxtail millet variety DHFt-109-3 for higher yield and income | Variety | DHFt-109-3 | UAS Dharwad | Seeds | 3 kg/ac | 100 | 15 | 1500 | • Grain yield (q/ha)<br>• Fodder yield (t/ha)<br>• Pest & disease reaction<br>• Economics | • Agronomy<br>• Pl. Pathology<br>• Sr. Scientist<br>• Home Science |
| | | **Little millet (K)** | • Low yield<br>• Lack of awareness on new variety | Demonstration of Little millet variety DHLM-36-3 for higher yield and income | Variety | DHLM-36-3 | UAS Dharwad | Seeds | 3 kg/ac | 100 | 10 | 1000 | • Grain yield (q/ha)<br>• Fodder yield (t/ha)<br>• Pest & disease reaction<br>• Economics | • Agronomy<br>• Pl. Pathology<br>• Sr. Scientist<br>• Home Science |
| 9.3 | **Oilseeds** | **Groundnut (R/S)** | • Low yield<br>• Lack of awareness on new variety | Demonstration of Groundnut variety Dh-101 for higher yield and income | Variety | Dh-101 | UAS, Dharwad | Seeds (pods) +<br>Trichoderma | 70 kg<br>1 Kg | 5000<br>100 | 10 | 51000 | • No. of pods/plant<br>• Seed weight (g)<br>• Yield (q/ha)<br>• Pest & Disease reaction | • Ag. Engg.<br>• Agronomy<br>• Pl. Pathology |

| S. No. | Category | Crop/ enterprise | Prioritized problem | Technology to be demonstrated | Hybrid /Variety | Name of the Hybrid /Variety | Source of Technology | Name of critical input | Qty per Demo | Cost per Demo | No. of Demo | Total cost for the Demo (Rs.) | Parameters to be studied | Team members |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.4 | **Pulses** | **Green gram** | • Low yield due to use of local variety<br>• Lack of uniform maturity<br>• Non availability of improved variety<br>• Powdery mildew & aphids incidence | ICM in Greengram variety DGGV-2 | Variety | DGGV-2 | UAS, Dharwad | Seeds | 05 kg | 500 | 10 | 5000 | • No. of pods /plant<br>• Pod yield (q/ha)<br>• Pest & disease incidence<br>• Economics | • Agronomy<br>• Pl. Pathology<br>• Ag. Engg. |
| 9.6 | **Horticultural crops** | **Onion (K)** | • Low yield (60-80 q/ha) in local varieties<br>• High incidence of purple blotch & thrips | ICM in onion variety of Arka Kalyan for higher yield & income | Variety | Arka Kalyan | IIHR, Bangalore NRC for Onion & Garlic, Pune | Seeds | 3 kg/ ac | 2300 | 15 | 34500 | • Bulb weight (gm)<br>• Yield (q/ha)<br>• Disease and insect reaction.<br>• Economics | • Horticulture<br>• Pl. Pathology<br>• Agronomy |
| | | **Gaillardia** | • Low yield<br>• Poor shelf life one day | Demonstration of Gaillardia variety DGS-1 for higher yield & income | Variety | DGS-1 | UAS, Dharwad | Seeds | 100 g | 400 | 10 | 4000 | • No. of flower/pl<br>• Flower diameter (cm)<br>• Shelf life<br>• Yield (q/ha)<br>• Market price | • Horticulture<br>• Agronomy<br>• Home Science |
| | | **Mango** | • Flower dropping<br>• Fruit dropping<br>• Powdery mildew incidence<br>• Low yield due to poor fruit set. | ICM in Mango | Variety | Alphanso | IIHR, Bangalore | Mango special<br>NAA (Planofix)<br>**Total** | 8 kg<br>200 ml | 1600<br>200<br>**1800** | 05 | 9000 | • % fruit set<br>• Disease and pests reaction<br>• Yield (t/ha)<br>• Economics | • Horticulture<br>• Pl. Pathology<br>• Agronomy |

| S. No. | Category | Crop/ enterprise | Prioritized problem | Technology to be demonstrated | Hybrid /Variety | Name of the Hybrid /Variety | Source of Technology | Name of critical input | Qty per Demo | Cost per Demo | No. of Demo | Total cost for the Demo (Rs.) | Parameters to be studied | Team members |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Chilli** | • Low yield (50-60 q/ha green chilli) due to high incidence of leaf curl<br>• Indiscriminate use of pesticide | Management of mite & sucking pests causing chilli leaf curl (R/S) | Variety | Private hybrids | UAS, Dharwad | Difenthuron | 400 g/ac | 1900 | 10 | 55000 | • Leaf curl (%)<br>• Yield (q/ha)<br>• % deformed fruits<br>• Market price<br>• Economics | • Pl. Pathology<br>• Horticulture<br>• Ag. Engg. |
| | | | | | | | | Imidacloprid 70WP | 5 g/kg | 200 | | | |
| | | | | | | | | Fenzequin (Acaricide) | 750 ml/ac | 2000 | | | |
| | | | | | | | | Nimbicidine | 2 L/ac | 1100 | | | |
| | | | | | | | | Imidachloprid 200SL | 100 ml | 300 | | | |
| | | | | | | | | | **Total** | **5500** | | | | |
| 9.7 | **Livestock** | **Fodder Bank** | • Low productivity of milk due to non feeding of green fodder | FLD on Fodder production | - | - | IGFRI, Dharwad | Hybrid Napier – DHN 6 slips | 436 Nos. | 436 | 05 | 12510 | • Fodder yield (q/ha)<br>• Milk yield (per lactation)<br>• Feeding information | • Animal Scientist<br>• Agronomy<br>• Home Science<br>• Senior Scientist<br>• Ag. Engg. |
| | | | | | | | | Multicut Jowar – COFS-29 seeds | 200 gm | 80 | | | | |
| | | | | | | | | Guinea grass slips & grazing guinea grass slips | 872 Nos. | 436 | | | | |
| | | | | | | | | Rhodes grass slips | 1452 Nos. | 726 | | | | |
| | | | | | | | | Signal grass slips | 1452 Nos. | 726 | | | | |
| | | | | | | | | Lucerne & hedge lucerne seeds | 100 gm | 80 | | | | |
| | | | | | | | | Styloxanthus & hamata seeds | 60 gm | 18 | | | | |
| | | | | | | | | | **Total** | **2502** | | | | |
| 9.8 | **Other** | **Nutrition garden** | • Malnutrition in school children | Nutrition garden at schools | - | - | - | Seeds & seedlings (Lime, drumstick, papaya, curry leaf, Chakramuni ) | 01 unit | 450 | 05 | 5000 | • Quantity of vegetables produced (kg)<br>• Economics<br>• Nutrition knowledge<br>• Health parameters | • Home Science<br>• Senior Scientist |
| | | | | | | | | Vermicompost | 10 kg | 50 | | | | |
| | | | | | | | | Neem based pesticide | 1L | 500 | | | | |
| | | | | | | | | | **Total** | **1000** | | | | |

| S. No. | Category | Crop/ enterprise | Prioritized problem | Technology to be demonstrated | Hybrid /Variety | Name of the Hybrid /Variety | Source of Technology | Name of critical input | Qty per Demo | Cost per Demo | No. of Demo | Total cost for the Demo (Rs.) | Parameters to be studied | Team members |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Vermicelli** | Lack of awareness on value addition in millets | Demonstration of millets vermicelli as an IGA | - | - | UAS Dharwad | **Foxtail millet vermicelli** | | | 05 | 4600 | • Product yield (kg)<br>• Economics<br>• Organoleptic Evaluation<br>• Market price of value added product<br>• Employment generation | • Senior Scientist<br>• Home Science |
| | | | | | | | | Foxtail millet grains | 2 kg | 180 | | | | |
| | | | | | | | | Chiroti rava | 2 kg | 160 | | | | |
| | | | | | | | | Milling , Packing & Labeling | | 160 | | | | |
| | | | | | | | | | **Total** | **500** | | | | |
| | | | | | | | | **Finger millet vermicelli** | | | | | | |
| | | | | | | | | Finger millet grains | 2 kg | 100 | | | | |
| | | | | | | | | Chiroti rava | 2 kg | 160 | | | | |
| | | | | | | | | Milling,Packing & Labeling | | 160 | | | | |
| | | | | | | | | | **Total** | **420** | | | | |

**No. of FLDs: 12** **Total Amount: Rs. :** 1,86,110**/-**

**9(a). Cluster Frontline Demonstrations under NFSM during 2016-17**

| S. No. | Category | Crop/ enterprise | Prioritized problem | Technology to be demonstrated | Hybrid /Variety | Name of the Hybrid /Variety | Source of Technology | Name of critical input | Qty per Demo | Cost per Demo | No. of Demo | Total cost for the Demo (Rs.) | Parameters to be studied | Team members |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9a.1 | Oil seed | Groundnut (R/S) | • Low yield<br>• Lack of awareness on new variety | Demonstration of Groundnut variety Dh-101 | Variety | Dh-101 | UAS, Dharwad | Seed (pods) | 70 kg | 5000 | 30 | 150000 | • No. of pods/plant<br>• Pest & Disease (%)<br>• Yield (q/ha)<br>• Economics | • Ag. Engg.<br>• Pl. Pathology |
| 9a.3 | Pulses | Chickpea(R) | • Lack of awareness on new varieties<br>• Low yield<br>• Incidence of wilt | Demonstration of Chickpea variety BGD-103 | Variety | BGD-103 | UAS Dharwad | Seeds | 25 kg/ac | 1400 | 30 | 90000 | • No. of pods /plant<br>• Pest & disease (%)<br>• Yield (q/ha)<br>• Economics | • Pl. Pathology<br>• Ag. Engg. |
| | | | | | | | | Rhizobium | 500 g | 200 | | | | |
| | | | | | | | | Trichoderma | 500 g | | | | | |
| | | | | | | | | P solubalizer | 500 g | | | | | |
| | | | | | | | | Prophenophos | 500 ml | 700 | | | | |
| | | | | | | | | Hexaconazole | 500 ml | 700 | | | | |
| | | | | | | | | | **Total** | **3000** | | | | |

**No. of Cluster FLDs: 02** **Total Amount: Rs. 2,40,000/-**

## Cluster wise action plan programmes planned during 2016-17

| Taluka | Cluster Village | Villages | Crop |
|---|---|---|---|
| **Byadgi** | Lakamajikoppa | Lakamajikoppa | Chilli |
| | | | Sorghum |
| | | | Gaillardia |
| **Hangal** | Hangal | Hangal | Mango |
| **Haveri** | Basapura | Aladakatti | Foxtail & Finger millet Vermicelli |
| | | Basapura | Little millet |
| | | | Foxtail millet |
| | | | Foxtail & Finger millet Vermicelli |
| | | | Nutrition garden |
| **Hirekeuru** | Hosakatti | Hiremadapura | Sunflower (R/S) |
| | | Hosakatti | Groundnut (R) |
| | | Suttakati | Maize |
| **Ranebennur** | Asundi | Asundi | Greengram |
| | | | Sorghum |
| | | | Onion |
| | | | Chilli |
| | | | Gaillardia |
| | | | Fodder Bank |
| | | Hanumanamatti | Nutrition garden |
| | | Itagi | Greengram |
| | | | Foxtail millets |
| | | | Onion |
| | | | Nutrition garden |
| | | | Fodder Bank |
| | | Magod | Nutrition garden |

# Group discussion for finalizing action plan 2016-17


**Itagi (Ranebennur)**


**Asundi (Ranebennur)**


**Lakamajikoppa (Byadgi)**


**Basapura (Haveri)**

**9(a). Cluster Frontline Demonstrations under NFSM during 2016-17**

| S. No. | Category | Crop/ enterprise | Prioritized problem | Technology to be demonstrated | Hybrid /Variety | Name of the Hybrid /Variety | Source of Technology | Name of critical input | Qty per Demo | Cost per Demo | No. of Demo | Total cost for the Demo (Rs.) | Parameters to be studied | Team members |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9a.1 | Oil seed | Groundnut (R/S) | • Low yield<br>• Lack of awareness on new variety | Demonstration of Groundnut variety Dh-101 | Variety | Dh-101 | UAS, Dharwad | Seed (pods) | 70 kg | 5000 | 30 | 150000 | • No. of pods/plant<br>• Pest & Disease (%)<br>• Yield (q/ha)<br>• Economics | • Ag. Engg.<br>• Pl. Pathology |
| 9a.3 | Pulses | Chickpea(R) | • Lack of awareness on new varieties<br>• Low yield (5-7.5 q/ha)<br>• Incidence of wilt (12%) | Demonstration of Chickpea variety BGD-103 | Variety | BGD-103 | UAS Dharwad | Seeds | 25 kg/ac | 1400 | 30 | 90000 | • No. of pods /plant<br>• Pest & disease (%)<br>• Yield (q/ha)<br>• Economics | • Ag. Engg.<br>• Pl. Pathology |
| | | | | | | | | Rhizobium | 500 g | 200 | | | | |
| | | | | | | | | Trichoderma | 500 g | | | | | |
| | | | | | | | | P solubalizer | 500 g | | | | | |
| | | | | | | | | Prophenophos | 500 ml | 700 | | | | |
| | | | | | | | | Hexaconazole | 500 ml | 700 | | | | |
| | | | | | | | | | **Total** | **3000** | | | | |

**No. of Cluster FLDs: 02** **Total Amount: Rs. 2,40,000/-**

**10 Training for Farmers/ Farm Women during 2016-17**

| S.No. | Thematic area | Crop / Enterprise | Major problem | Related field intervention | Training Course Title | No. of Courses | Expected No. of participants | Names of the team members involved |
|---|---|---|---|---|---|---|---|---|
| 10.1 | Crop Production | Cowpea | • Lack of awareness on new varieties<br>• Low yield | OFT | ICM in Cowpea | 03 | 100 | • Ag. Engg.<br>• Prog. Asst.(GPB)<br>• Pl. Pathology |
| | | Sorghum | • Lack of awareness on new varieties<br>• Lodging and poor fodder quality | Gen | Recent advance in Sorghum cultivation | 02 | 60 | • Pl. Pathology<br>• Ag. Engg. |
| | | Sugarcane | Low yield | Gen | SSI In Sugarcane | 02 | 60 | • Ag. Engg,<br>• Pl. Pathology |
| | | | | | Irrigation Methods for increased WUF | 02 | 60 | |
| | | Groundnut | • Lack of awareness on new varieties<br>• Low yield | FLD | ICM in Groundnut | 03 | 100 | • Ag. Engg,<br>• Pl. Pathology |
| | | Chick pea | • Lack of awareness on new varieties<br>• Low yield | Cluster FLD | ICM in Chick pea | 02 | 60 | • Pl. Pathology<br>• Ag. Engg, |
| 10.2 | Horticulture Production | Cowpea | • Lack of awareness on new varieties<br>• Low yield | OFT | ICM in Cowpea | 03 | 100 | • Horticulture<br>• Ag. Engg,<br>• Pl. Pathology |
| | | Onion | Use of Local varieties | FLD | POP onion production technologies | 02 | 60 | • Horticulture |
| | | Gaillardia | Use of Local varieties | FLD | Crop management in Gaillardia | 02 | 50 | |
| 10.3 | Livestock Production | - | - | - | - | - | - | - |
| 10.5 | Plant Protection | Onion | Incidence of Thrips<br>Low yield | OFT | Pest management in onion | 01 | 30 | • Pl. Pathology<br>• Horticulture |
| | | Onion | Incidence of Purple blotch<br>Low yield | OFT | Disease management in onion | 01 | 30 | • Pl. Pathology<br>• Horticulture |
| | | Chick pea | Wilt & low yield | Cluster FLD | Foliar disease management | 02 | 50 | • Pl. Pathology |
| | | Chilli | Leaf curl incidence<br>Low yield | FLD | Leaf curl management in Chilli | 02 | 60 | • Pl. Pathology<br>• Horticulture |
| | | Tomato | Leaf curl incidence<br>Low yield | - | Leaf curl management in Tomato | 02 | 60 | • Pl. Pathology<br>• Horticulture |

| S.No. | Thematic area | Crop / Enterprise | Major problem | Related field intervention | Training Course Title | No. of Courses | Expected No. of participants | Names of the team members involved |
|---|---|---|---|---|---|---|---|---|
| 10.6 | Production of Inputs at Site | - | - | - | - | - | - | - |
| 10.7 | Soil Health and Fertility | - | - | - | - | - | - | - |
| 10.8 | PHT and value addition | Foxtail, little & finger millet | Lack of awareness about value addition | FLD | Value addition in foxtail & little, finger millet | 02 | 60 | • Home Science<br>• Senior Scientist |
| | | | | | Preparation, packing, labeling of millet vermicelli | 02 | 60 | |
| | | Vegetable preservator | Storage loss of fruits and vegetables storage | FLD | Use of Vegetable preservator | 02 | 60 | |
| 10.9 | Capacity Building Group Dynamics | - | - | - | - | - | - | - |
| 10.10 | Farm Mechanization | Groundnut | Labour scarcity, drudgery reduction, timely operation delayed | - | Mechanization in cultivation of Groundnut (K/R/S) | 02 | 60 | • Ag. Engg. |
| 10.11 | Fisheries Production Technologies | | - | - | - | - | - | - |
| 10.12 | Mushroom production | - | - | - | - | - | - | - |
| 10.13 | Agro forestry | - | - | - | - | - | - | - |
| 10.14 | Bee Keeping | - | - | - | - | - | - | - |
| 10.15 | Sericulture | - | - | - | - | - | - | - |
| | Others | | | | | | | |
| | Soil & water conservation | - | Loss of soil and water and effect on the soil fertility | - | Soil and water conservation techniques | 03 | 75 | • Ag. Engg. |
| | Seed production | Chickpea and Groundnut | Poor quality seeds | Cluster FLD | Quality seed production | 02 | 50 | • Ag. Engg, Pl. Pathology |
| | Nutrition | Nutrition garden | Lack of awareness about nutrition & Nutrition garden | FLD | Nutrition garden at schools | 04 | 200 | • Home Science<br>• Senior Scientist |

**11. Training for Rural Youth during 2016-17**

| S.No. | Thematic area | Crop / Enterprise | Major problem | Related field intervention | Training Course Title | No. of Courses | Expected No. of participants | Names of the team members involved |
|---|---|---|---|---|---|---|---|---|
| 11.1 | Crop Production | Sugarcane | Low yield | - | SSI In Sugarcane | 02 | 30 | Ag. Engg. |
| | | | | | Irrigation Methods for increased WUE | 02 | 30 | |
| | | Paddy | Scarcity of water | - | Water Saving techniques in agriculture | 02 | 30 | • Ag. Engg. |
| | | Organic manure | High cost of in-organic fertilizer | - | Production of organic manures | 02 | 60 | • Pl. Pathology |
| 11.2 | Horticulture Production | Onion | Unscientific method of farming | FLD | ICM in Onion | 02 | 60 | • Horticulture<br>• Pl. Pathology |
| | | Onion | Use of Local varieties | FLD | POP onion production technologies | 02 | 60 | • Horticulture |
| | | Gaillardia | Use of Local varieties | FLD | Crop management in Gaillardia | 02 | 50 | |
| 11.3 | Livestock Production | | - | - | - | - | - | - |
| 11.4 | Home Science | Vegetable preservator | Storage loss of fruits and vegetables storage | FLD | Use of Vegetable preservator | 02 | 60 | • Home Science<br>• Senior Scientist |
| | | Nutrition garden | Lack of awareness about nutrition & Nutrition garden | FLD | Nutrition garden at schools | 02 | 60 | |
| 11.5 | Plant Protection | Onion | Purple blotch incidence | OFT | Pest and Disease management in onion | 02 | 50 | • Pl. Pathology<br>• Horticulture |
| | | Major Crop | Root disease in major crops | - | Bio control of plant disease | 01 | 30 | • Pl. Pathology |
| | | Chilli | Leaf curl incidence | FLD | Management of leaf curl in chilli | 01 | 30 | • Pl. Pathology<br>• Horticulture |
| | | Cotton | Sucking pests & mirid bug | - | Sucking pest & mirid bug management in cotton | 01 | 30 | • Pl. Pathology |
| 11.6 | Production of Inputs at Site | Chickpea and Groundnut | Poor quality seeds | FLD/Seed production | Quality seed production | 05 | 200 | • Ag. Engg.<br>• Prog.Asst.(GPB) |
| 11.7 | Soil Health and Fertility | - | - | - | - | - | - | - |
| 11.8 | PHT and value addition | Foxtail, little & finger millet | Lack of awareness about value addition | FLD | Value addition in millet | 02 | 60 | • Home Science<br>• Senior Scientist |
| | | | | | Preparation, packing, labeling of millet product | 02 | 60 | |

| S.No. | Thematic area | Crop / Enterprise | Major problem | Related field intervention | Training Course Title | No. of Courses | Expected No. of participants | Names of the team members involved |
|---|---|---|---|---|---|---|---|---|
| 11.9 | Capacity Building Group Dynamics | Vegetables | Lack of awareness in seed production techniques | - | Crossing techniques in vegetables | 02 | 50 | • Horticulture |
| 11.10 | Farm Mechanization | Groundnut | Labour scarcity, drudgery reduction, timely operation delayed | FLD | Mechanization in cultivation of Groundnut (K/R/S) | 02 | 60 | • Ag. Engg.<br>• Pl. Pathology |
| 11.11 | Fisheries Production Technologies | - | - | - | - | - | - | - |
| 11.12 | Mushroom production | - | - | - | - | - | - | - |
| 11.13 | Agro forestry | - | - | - | - | - | - | - |
| 11.14 | Bee Keeping | - | - | - | - | - | - | - |
| 11.15 | Sericulture | - | - | - | - | - | - | - |
| 11.16 | Soil and water conservation | - | Loss of soil and water & effect on the soil fertility | FLD | Soil and water conservation techniques | 03 | 75 | • Ag. Engg.<br>• Horticulture |

**12 Trainings for Extension Personnel during 2016-17**

| S.No. | Thematic area | Training Course Title | No. of Courses | Expected No. of participants | Names of the team members involved |
|---|---|---|---|---|---|
| 12.1 | Crop Production | SSI in Sugarcane | 01 | 30 | • Ag. Engg.<br>• Pl. Pathology |
| | | Integrated farming system | 02 | 60 | • Pl. Pathology<br>• Ag. Engg. |
| | | Contingent crop plan | 02 | 60 | • Pl. Pathology<br>• Ag. Engg. |
| 12.2 | Home Science | Processing and value addition | 01 | 30 | • Home Science<br>• Senior Scientist |
| 12.4 | Horticulture | Improved technologies for vegetable production in poly house | 02 | 60 | • Horticulture |
| | | Improved technologies for commercial flower production | 02 | 60 | • Horticulture |
| 12.5 | Livestock Production & Management | - | - | - | - |
| 12.6 | Plant Protection | Biological control of plant diseases | 02 | 60 | • Pl. Pathology<br>• Ag. Engg. |
| | | IPM in cotton | 02 | 60 | • Pl. Pathology<br>• Ag. Engg. |
| 12.7 | Farm Mechanization | Mechanization in cultivation of Groundnut (K/R/S) | 01 | 20 | • Ag. Engg.<br>• Pl. Pathology |
| | | Mechanization in cultivation of Chickpea | 01 | 20 | • Ag. Engg.<br>• Pl. Pathology |
| 12.8 | PHT and value addition | Value addition in millets | 02 | 60 | • Home Science<br>• Senior Scientist |
| 12.9 | Production of Inputs at Site | Quality seed production | 02 | 60 | • Ag. Engg.<br>• Prog. Asst. (Lab (GPB)) |
| 12.12 | Others | - | - | - | - |
| | Watershed development | Soil and water conservation techniques | 02 | 50 | • Ag. Engg. |

**13 Vocational trainings during 2016-17**

| Sl.No. | Thematic area and the Crop/Enterprise | Training title | No. of programmes and Duration (days) | Type of Clientele | Expected No. of participants | Sponsoring agency | Names of the team members involved |
|---|---|---|---|---|---|---|---|
| 13.1 | Crop Production | - | - | - | - | - | - |
| 13.2 | Home Science | Tailoring | One (10 days) | Youth & Farm Women | 30 | KVK | • Home Science |
| 13.3 | Capacity Building and Group Dynamics | - | - | - | - | - | - |
| 13.4 | Horticulture | Improved techniques in vegetable crop production | One (6 days) | Youth & Farm Women | 30 | KVK | • Horticulture |
| | | Seedling production technologies in fruit crops | One (5 days) | Youth & Farmer | 25 | KVK | • Horticulture |
| 13.5 | Livestock Production & Management | - | - | - | - | - | - |
| 13.6 | Plant Protection | Biological control of major soil borne diseases | One (7 days) | SHGs, youth, Progressive farmers | 40 | KVK | • Pl. Pathology |
| 13.7 | Farm Mechanization | Mechanization in Agriculture | One (7 days) | SHGs | 40 | KVK | • Ag. Engg. |
| 13.8 | PHT and value addition | Value addition in millets | One (7 days) | SHGs | 60 | KVK | • Home Science |
| 13.9 | Production of Inputs at Site | Advances and seed production technologies in groundnut and other crops | One (5 days) | SHGs, youth, Progressive farmers | 30 | KVK | • Ag. Engg. |
| 13.10 | Sericulture | - | - | - | - | - | - |
| 13.11 | Fisheries | - | - | - | - | - | - |
| 13.12 | Others | | | | | | |
| | Watershed development | Integrated watershed development | One (7 days) | Youths | 25 | - | • Ag. Engg. |
| | Coconut | FOCT palm climbing | One (05 days) | Youths | 20 | CDB | • Ag. Engg<br>• Pl. Pathology |

**14 Sponsored trainings during 2016-17**

| Sl.No. | Thematic area and the Crop/Enterprise | Training title* | No. of programmes and Duration (days) | Type of Participants | Expected No. of participants | Sponsoring agency | Names of the team members involved |
|---|---|---|---|---|---|---|---|
| 14.1 | Crop Production | Chilli production technology | 01 | Youth | 25 | East west /NGO | • Pl. Pathology<br>• Horticulture |
| 14.2 | Home Science | - | - | - | - | - | - |
| 14.3 | Capacity Building and Group Dynamics | - | - | - | - | - | - |
| 14.4 | Horticulture | - | - | - | - | - | - |
| 14.5 | Livestock Production & Management | - | - | - | - | - | - |
| 14.6 | Plant Protection | Crop pest & disease management in major crops of Haveri district | 01 | Youth | 25 | KSDA | • Pl. Pathology<br>• Horticulture |
| 14.7 | Farm Mechanization | Mechanization in Agricultural operation | 01 | SHG | 25 | KVK | • Ag. Engg. |
| 14.8 | PHT and value addition | Value addition of millets | 02 | SHG | 60 | KVK | • Home Science |
| 14.9 | Production of Inputs at Site | - | - | - | - | - | - |
| 14.10 | Sericulture | - | - | - | - | - | - |
| 14.11 | Fisheries | - | - | - | - | - | - |
| 14.12 | Others | - | - | - | - | - | - |
| | Watershed development | Integrated watershed development | 02 | SHG | 25 | Dept. of Watershed | • Ag. Engg. |

**15. Extension programmes during 2016-17**

| Sl.No. | Extension programme/Activity | No. of programmes or activities | Expected No. of participants | Names of the team members involved |
|---|---|---|---|---|
| 15.1 | Advisory Services | 360 | 500 | KVK Team |
| 15.2 | Diagnostic visits | 20 | 100 | KVK Team |
| 15.3 | Field Day | 08 | 800 | KVK Team |
| 15.4 | Group discussions | 60 | 350 | KVK Team |
| 15.5 | Kisan Ghosthi | 08 | 1000 | KVK Team |
| 15.6 | Film Show | 12 | 500 | KVK Team |
| 15.7 | Self -help groups | 10 | 400 | KVK Team |
| 15.8 | Kisan Mela / Krishi Utsav | 05 | 9000 | KVK Team |
| 15.9 | Exhibition | 08 | 50000 | KVK Team |
| 15.10 | Scientists' visit to farmers field | 150 | 100 | KVK Team |
| 15.11 | Plant/Soil health/Animal health camps | 6 | 300 | KVK Team |
| 15.12 | Farm Science Club | - | - | - |
| 15.13 | Ex-trainees Sammelan | - | - | - |
| 15.14 | Farmers' seminar/workshop | 02 | 100 | KVK Team |
| 15.15 | Method Demonstrations | 30 | 400 | KVK Team |
| 15.16 | Celebration of important days | 05 | 2000 | KVK Team |
| 15.17 | Special day celebration | 05 | 5000 | KVK Team |
| 15.18 | Exposure visits | 2 | 40 | KVK Team |
| 15.19 | Technology week | 01 | 250 | KVK Team |
| 15.20 | Farmers Field School (FFS) | 01 | 30 | KVK Team |
| 15.21 | Farm innovators meet | 01 | 50 | KVK Team |
| 15.22 | Awareness programs | 03 | 300 | KVK Team |

## 16. Activities proposed as Knowledge and Resource Centre during 2016-17

### 16.1 Technological knowledge

| Sl.No. | Category | Details of technologies | Area (ha)/ Number/Kg | Names of the team members involved |
|---|---|---|---|---|
| 16.1.1 | Technology Park/ Crop cafeteria | Millet crop cafeteria | 2.0 | • Field Asst. |
| | | Fodder crop(grasses) cafeteria | 1.0 | • Field Asst. |
| | | Sapota garden | 2.0 | • Horticulture, Field Asst |
| | | Multiple cropping system (Sapota+millts+fodder crops) | 2.0 | • Field Asst. |
| | | Seed production (Sunnhemp, Redgram. Groundnut, millets) | 6.0 | • Field Asst. |
| | | Nursery production Unit | 0.20 | • Horticulture |
| 16.1.2 | Demonstration Units | Vermicompost production unit | 01 | • Farm Manager |
| 16.1.3 | Lab Analytical services | Soil testing | 2500 | • Prog. Asst. (Lab)<br>• Soil Science |
| | | Trichoderma production | 600 | • Pl. Pathology |
| 16.1.4 | Technology Week | IFS | 01 | • KVK Team |
| | | Soil and water conservation | | |
| | | Plant protection | | |
| | | Bio control agents | | |
| | | Processing and value addition | | |

**16.2 Technological Products**

| Sl.No. | Category | Name of the production partner Agency, if any | Name of the Product | Quantity (Q.)/ Number planned to be produced during 2016-17 | Names of the team members involved |
|---|---|---|---|---|---|
| 16.2.1 | Seeds | FLD farmers | Groundnut (GPBD-5) | 50 | Ag.Engg., Pl. Path., Farm manager |
| | | | Groundnut (Dh-101) | 50 | Ag.Engg., Pl. Path., Farm manager |
| | | | Redgram (BSMR-736) | 15 | Ag.Engg., Pl. Path., Farm manager |
| | | | Chickpea(BGD-103) | 02 | Ag.Engg., Pl. Path., Farm manager |
| | | | Sorghum (Anuradha) | 05 | Ag.Engg., Pl. Path., Farm manager |
| | | | Horsegram (KM-5) | 05 | Ag.Engg., Pl. Path., Farm manager |
| | | | Maize (SAT) | 25 | Ag.Engg., Pl. Path., Farm manager |
| 16.2.2 | Planting materials | | Sapota (DHS-1) | 500 | Farm manager, Prog. Asst. |
| | | | Sapota (DHS-2) | 1000 | Farm manager, Prog. Asst. |
| | | | Curry leaf (Suvasini) | 5000 | Farm manager, Prog. Asst. |
| | | | Tamarind (PKM) | 200 | Farm manager, Prog. Asst. |
| | | | Guava | 500 | Farm manager, Prog. Asst. |
| 16.2.3 | Bio-products | | Trichoderma | 10 | Pl. Pathology |
| 16.2.4 | Livestock strains | | Deccani sheep | 10 | Prog. Asst. |
| 16.2.5 | Fish fingerlings | | - | - | - |
| 16.2.6 | Production of Vermicompost | | Vermicompost | 50 | Farm Manager, Prog. Asst. |

**16.3 Technological Information**

| | Category | Technological capsules / Number | Names of the team members involved |
|---|---|---|---|
| 16.3.1 | Technology backstopping to line departments | | |
| | Agriculture | Soil fertility and fertilizer management (02) | • Ag. Engg. |
| | Horticulture | Vegetable crop management | • Horticulture |
| | Agricultural Engineering | Watershed management | • Ag. Engg., Horticulture |
| | Bi-monthly workshop | Crop Production , Processing | • KVK team |
| | Sericulture | Advances in cultivation of mulberry | • Horticulture |
| 16.3.2 | Literature/publication | • Crop management (02)<br>• Plant protection methods (02)<br>• Nutrient management (04)<br>• Value addition in millets (02)<br>• Value addition in fruits & vegetable (02) | • Horticulture , Pl. Pathology<br>• Pl. Pathology<br>• Home Science<br>• Horticulture & Home Science<br>• Horticulture & Home Science |
| 16.3.4 | Electronic Media | Radio talks | • Ag. Engg.<br>• Pl. Pathology<br>• Home. Science<br>• Horticulture |
| | | Tv - Interaction with innovative farmers | |
| 16.3.5 | Kisan Mobile Advisory Services | Rainfall and temperature, Agronomic practices, Nutrition, Improved varieties, Plant protection | • Ag. Engg.<br>• Pl. Pathology<br>• Home. Science<br>• Horticulture |
| 16.3.6 | Information on centre/state sector schemes and service providers in the district. | Animal Science, Fisheries & agriculture | • All Scientist & Dept. Officials |

**17. Additional Activities Planned during 2016-17**

| S.No. | Name of the agency / scheme | Name of activity | Technical programme with quantification | Financial outlay (Rs.) | Names of the team members involved |
|---|---|---|---|---|---|
| 17.1 | KVK | Processing of millets using equipments of INSIMP | Production of Turmeric powder, Ragi flour, Jowar flour, packaging of cleaned grains | 50,000/- | • Home science<br>• Prog. Asst.(Lab)<br>• Senior Scientist |

## 18. Revolving Fund

### 18.1 Financial status

| Particular | Opening balance as on 01.04.2015 (Rs.in Lakh) | Expenditure incurred during 2015-16( Rs.in Lakh) | Receipts during 2015-16 (Rs.in Lakh) | Closing balance as on 31.01.2016 (Rs.in Lakh) | Expected closing balance by 31.03.2016 (Including value of material in stock) |
|---|---|---|---|---|---|
| ICAR | 10.32 | 18.83 | 18.07 | 9.56 | 8.00 |

### 18.2 Plan of activities under Revolving Fund

| S.No. | Proposed activities | Expected output | Anticipated income (Rs.) | Names of the team members involved |
|---|---|---|---|---|
| 18.2.1 | Seed production and procurement (q) | 157 | 9,77,000/- | All Scientist, Field Asst. |
| 18.2.2 | Production of planting materials (Nos.) | 32500 | 2,00,000/- | Horticulture |
| 18.2.3 | SWTL (Nos.) | 4000 | 3,00,000/- | Prog. Asst. (Lab) |
| 18.2.4 | Production of Bio-agents (q) | 10 | 1,00,000/- | Pl. Pathology |
| 18.2.5 | Production of worms (kg.) | 100 | 20,000/- | Farm manager |
| 18.2.6 | Production of Vermicompost (q) | 25 | 75000/- | Farm Manager |
| 18.2.7 | Production of milk (ltr) | 200000 | 4,80,000/- | Farm manager |
| 18.2.8 | Processing of Millets (Q) & Value added millet products | 5 | 30,000/- | Home Science |

## 19. Activities of soil, water and plant testing laboratory during 2016-17

| Sl.No. | Type | No. of samples to be analyzed | Names of the team members involved |
|---|---|---|---|
| 19.1 | Soil | 3000 | Soil Science, Prog. Asst. (Lab) |
| 19.2 | Water | 1000 | Soil Science, Prog. Asst. (Lab) |
| 19.3 | Plant | - | - |

**20. E-linkage during 2016-17**

| S. No | Nature of activities | Likely period of completion | Remarks |
|---|---|---|---|
| 20.1 | Title of the technology module to be prepared | - | Information required |
| 20.2 | Creation and maintenance of relevant database system for KVK | | |
| | • Training database | Going on | |
| | • Seeds & planting material | Going on | |
| | • Soil & water test database | Going on | |
| | • FLD | Going on | |
| | • Milk sold | Going on | |
| | • Farmers Visit KVK | Going on | |
| | • OFT | July 2016 | |
| | • Extension activities | July 2016 | |
| | • Publication (Retrench Paper, Abstract, Popular article, Folder etc.,) | Going on | |
| | • ICAR revolving fund | Going on | |
| 20.3 | **Text messages** | Weekly once | |
| 20.4 | **Web site (www.kvkhaveri.org)** | Monthly | |
| 20.5 | **Teaching B.Sc. (Agri.) Course** | 6 months | |
| 20.6 | **Online reporting system entire** | Daily | |

**21.Activities planned under Rainwater Harvesting Scheme**

| S. No | Activities planned | Remarks |
|---|---|---|
| 21.1 | Maintenance of fodder demonstration bank | Napier gross, perennial fodder crops |
| 21.3 | Maintenance of Nursery garden for multiplication of Horticultural plants | Sapota, tamarind, Curry leaf, Sugarcane, Guava |
| 21.4 | Development of field gene bank (Germplasm) | |
| 21.5 | Training cum demonstration on Rainwater harvesting and its utilization | |
| 21.6 | Maintenance of Nutrition garden | |

**22. Innovative Farmer's Meet**

| Sl.No. | Particulars | Details |
|---|---|---|
| 22.1 | Are you planning for conducing Farm Innovators meet in your district? | Yes |
| 22.2 | If Yes likely month of the meet | August- 2016 |
| 22.3 | Brief action plan in this regard | • Discussion with line departments<br>• Preliminary meeting of innovative farmers<br>• Documentation of innovations<br>• Innovation mela<br>• Honoring innovators in Krishi Mela |

**23. Farmer's Field School planned - Nil**

**24.Budget - Details of budget utilization (2015-16) upto 31 January 2016**

**(Rs.)**

| S. No. | Particulars | Sanctioned | Released | Expenditure |
|---|---|---|---|---|
| **24.1** | **Recurring Contingencies** | | | |
| 24.1.1 | **Pay & Allowances** | **7195000** | **7195000** | 7318307 |
| 24.1.2 | **Traveling allowances** | 100000 | 100000 | 126736 |
| 24.1.3 | **Contingencies** | | | |
| *24.1.4.1* | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance | 100000 | 100000 | 99633 |
| *B* | POL, repair of vehicles, tractor and equipments | 100000 | 100000 | 99714 |
| *C* | Meals/refreshment for trainees | 50000 | 50000 | 37800 |
| *D* | Training material | 25000 | 25000 | 560 |
| *E* | Frontline demonstration except oilseeds and pulses | 137000 | 137000 | 115670 |
| *F* | NFSM (FLD) | 100000 | 100000 | 28175 |
| *G* | On farm testing | 46000 | 46000 | 45972 |
| *H* | Training of extension functionaries | 0 | 0 | 0 |
| *I* | Maintenance of buildings | 0 | 0 | 0 |
| *J* | Establishment of Soil, Plant & Water Testing Laboratory | 0 | 0 | 0 |
| *K* | Library | 5000 | 5000 | 0 |
| *L* | Extension activities | 50000 | 50000 | 26483 |
| **24.1** | **Total Recurring** | **613000** | **613000** | **454007** |
| **24.2** | **Non-Recurring Contingencies** | | | |
| 24.2.1 | **Works** | 0 | 0 | 0 |
| 24.2.2 | **Equipments including SWTL & Furniture** | 0 | 0 | 0 |
| 24.2.3 | **Vehicle** (Four wheeler/Two wheeler, please specify) | 800000 | 800000 | 0 |
| 24.2.4 | **Library** | 0 | 0 | 0 |
| **24.2** | **Total Non Recurring** | **800000** | **800000** | **0** |
| **24.3** | **REVOLVING FUND** | 0 | 0 | 0 |
| **24.4** | **GRAND TOTAL (A+B+C)** | **8708000** | **8708000** | **7899050** |

**25.Details of Budget Estimate (2016-17) based on proposed action plan** **(Rs.)**

| S. No. | Particulars | BE 2016-17 proposed |
|---|---|---|
| **25.1** | **Recurring Contingencies** | |
| 25.1.1 | **Pay & Allowances** | **100.00** |
| 25.1.2 | **Traveling allowances** | 2.50 |
| 25.1.3 | **Contingencies** | |
| *A* | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 2.50 |
| *B* | POL, repair of vehicles, tractor and equipments | 2.50 |
| *C* | Meals/refreshment for trainees (ceiling upto Rs.150/day/trainee be maintained) | 1.50 |
| *D* | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | 1.50 |
| *E* | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | 2.11 |
| *F* | FLD On Special Programme under NFSH | 0.00 |
| *G* | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | 0.17 |
| *H* | Training of extension functionaries | 0.30 |
| *I* | Maintenance of buildings | 0.50 |
| *J* | Extension Activities | 0.75 |
| *K* | Farmers Field School | 0.30 |
| *L* | Soil, Plant & Water Testing Laboratory | 0.00 |
| *M* | Library | 0.05 |
| *N* | Contractual services (Fld Asst-2,Security-2,Skilled Helper-2,Farm labour-8) | 0.00 |
| *25.1* | **TOTAL Recurring Contingencies** | **12.18** |
| **25.2** | **Non-Recurring Contingencies** | |
| 25.2.1 | **Works** | |
| | **Expansion of Hostel Building** | 0.00 |
| | **Poultry Unit** | 0.00 |
| | **Chain link fencing for staff quarters** | 0.00 |
| 25.2.2 | **Equipments including SWTL & Furniture** | 0.00 |
| 25.2.3 | **Vehicle** (Four wheeler) | 0.00 |
| 25.2.4 | **Library** (Purchase of assets like books & journals) | 0.00 |
| **25.2** | **TOTAL Non-Recurring Contingencies** | **0.00** |
| **25.3** | **REVOLVING FUND** | |
| **25.4** | **GRAND TOTAL** | **114.68** |