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

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| --- | --- | --- | --- |
| 1.1 | Name and address of KVK with Phone, Fax and e-mail | : | **Krishi Vigyan Kendra**  Hadonhalli-561 205, TubagereHobli, Doddaballapura Taluk  Bangalore Rural District  Phone: 080-27652082, Fax: 080-27652093  E mail: kvkbrd@gmail.com |
| 1.2 | Name and address of host organization | : | University of Agricultural Sciences  Gandhi Krishi Vigyan Kendra, Bangalore – 560 065  Karnataka, India |
| 1.3 | Year of sanction | : | 2006 |
| 1.4 | Website address of KVK and date of last update |  | www.kvkbrd.org and last updated on 29-2-2016 |

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

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| **S.**  **No.** | **Sanctioned post** | **Name of the incumbent** | **Discipline** | **If Permanent, Please indicate** | | **Date of joining** | **If Temporary, pl. indicate the consolidated amount paid (Rs./month)** |
| **Current**  **Pay Band** | **Current Grade Pay** |
| 2.1 | Programme Coordinator | Dr.K.N.Srinivasappa | Horticulture | 37400-67000 | 9000 | 09.12.2011 | Permanent |
| 2.2 | Subject Matter Specialist | Dr. Savita S.Manganavar | Home Science | 15600-39100 | 7000 | 28.02.2007 | Permanent |
| 2.3 | Subject Matter Specialist | Dr.Anand G.Manegar | Animal Science | 15600-39100 | 7000 | 13.03. 2007 | Permanent |
| 2.4 | Subject Matter Specialist | Dr.B.G. Vasanthi | Soil Science | 15600-39100 | 7000 | 28.03. 2007 | Permanent |
| 2.5 | Subject Matter Specialist | Dr.M.Padmavathi | Agri. Extension | 15600-39100 | 6000 | 23.11.2012 | Permanent |
| 2.6 | Subject Matter Specialist | Dr.B.Manjunath | Plant Protection | 15600-39100 | 6000 | 27.09.2013 | Permanent |
| 2.7 | Subject Matter Specialist | - | Agronomy | - | - | - | - |
| 2.8 | Programme Assistant | Mr.N.Jagadish | Training Assistant | 9300-34800 | 4200 | 20.12. 2010 | Permanent |
| 2.9 | Computer Programmer | Mr.N.Papanna | Computer & Accts. | 9300-34800 | 4200 | 19.01. 2011 | Permanent |
| 2.10 | Farm Manager | Mrs. B.V.Manjula | Farm Manager | 9300-34800 | 4200 | 03.12.2013 | Permanent |
| 2.11 | Accountant/Superintendent | Mrs. M.K.Meenakshi | Assistant | 16000-29600 | - | 03.07.2013 | Permanent |
| 2.12 | Stenographer | Mrs.S. Rukmini | Steno | 14550 | - | 01.12. 2009 | Temporary |
| 2.13 | Driver 1 | Mr.M.Nagaraja | Tractor Driver | 11600-21000 | - | 16.06. 2011 | Permanent |
| 2.14 | Driver 2 | Mr.H.R. Venu Gopal | Jeep Driver | 11000 | - | 26.06. 2007 | Temporary |
| 2.15 | Supporting staff 1 | Mr.N.Murali | Asst. Cook cum Caretaker | 9600-14550 | - | 17.10. 2008 | Permanent |
| 2.16 | Supporting staff 2 | Mr.A.R. Channakeshava Gowda | Attender | 11600-21000 | - | 19.02.2016 | Permanent |

**3. Details of SAC meeting conducted during 2015-16 – Scheduled in March, 2016**

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| **S.**  **No** | **Date** | **Major recommendations** | **Status of action taken in brief** | **Tentative date of SAC meeting proposed during**  **2016-17** |
| 3.1 | **-** | - | **-** | February, 2017 |
| 3.2 | **-** | - | **-** |

**4. Capacity Building of KVK Staff**

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

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| **S. No** | **New Areas of Training** | **Institution proposed to attend** | **Justification** |
| 4.1.1 | Horticulture | NC State University, USA | Precision farming and extension approaches (April-May, 2016) |
| 4.1.2 | Plant protection | NIPHM, Hyderabad | To update knowledge about principles of pesticide management |
| 4.1.3 | Storage pest management | NIPHM, Hyderabad | To acquire knowledge about stored grain pest detection and management |
| 4.1.4 | Land Resource Management | NBSS&LUP, Bengaluru | Recent techniques in planning management of land resources |
| 4.1.5 | Nutrient management / cropping systems | IARI, New Delhi | Crop planning and integrated farming system aspects helps to raise the farm income |
| 4.1.6 | Winning Research proposals | NAARM, Hyderabad | To develop winning Research Proposals in Agricultural Research in the interest of KVK |
| 4.1.7 | Communication | NAARM, Hyderabad | To improve the agricultural knowledge communication |
| 4.1.8 | Food safety | IICPT, Tanjavur | To upgrade knowledge on food safety and microbial analysis |
| 4.1.9 | Mushroom cultivation | IIHR, Hesaraghatta | Commercial cultivation technologies in mushroom |
| 4.1.10 | Value addition | CFTRI, Mysore | Vegetable oil processing, value added products and analysis |
| 4.1.11 | Commercial dairy farming | NDRI, Karnal | Profitable dairying, economics |
| 4.1.12 | Animal nutrition | NIANP, Bengaluru | Feed technologies |
| 4.1.13 | Animal parasitological techniques | Vet. College, Bengaluru | Pest and disease control and management |
| 4.1.14 | Poultry production | Centre Institute, Hesaraghatta | Feed analytical techniques, alternate poultry rearing |
| 4.1.15 | Photoshop, CorelDraw and Animation | NIIT / APTECH / KEONICS | To develop and conduct the programme in a befitting matter |
| 4.1.16 | Farm Mechanization | UAS, Bangalore | Reduce the labour and to carry out the farm activities by timely usage of farm machines |
| 4.1.17 | Office management in Accounts & Administration with computer application | UAS, Bangalore | Effective management of Office administration and accounts |

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

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| **S. No** | **Name of the KVK proposed** | **Specific learning areas** |
| **4.2.1** | **Within ring –**   1. KVK, Kolar and Ramanagara 2. KVK, Chikkaballapura 3. KVK , Tumkur A | Mango grading, branding and marketing  Improved Sericulture practices and Village Development Concept  Millet processing, Micronutrients, Planting material |
| **4.2.2** | **Within the zone**   1. KVK, Calicut, Kerala 2. KVK, Puducherry, Kerala 3. KVK, Coimbatore | Indigenous Technology Knowledge for infertility management in dairy animals  Hi-tech nursery and precision farming  Goat rearing, green fodder production, mulberry and medicinal plants |
| **4.2.3** | **Outside zone –**   1. KVK, Rajkot, Gujarat 2. KVK, Parabhani, Maharashtra 3. KVK, Karnal, Haryana | Dryland farming  Dryland in horticulture, organic farming and market led extension  Scientific technologies for farm animal components |

**5. Proposed cluster of KVKs (3 to 5 neighboring KVKs) to be formed for sharing knowledge/expertise, resources and activities during 2016-17**

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| **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, Kolar | Improved Mango, Sericulture Practices & Village development models, Millet processing | Quality seeds and planting materials. Exposure visits, farmers interaction |
| 5.2 | KVK, Chikkaballapura | Improved Sericulture practices and village development concept, Exposure visits, farmers interaction |
| 5.3 | KVK, Tumkur A | Micronutrient mixtures, seeds, planting material and millet processing |

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

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| **S.No.** | **Major crops & enterprises being practiced in cluster villages** | **Prioritized problems in these crops/ enterprise** | **Extent of area (Ha/No.) affected by the problem in the district** | **Names of Cluster Villages identified for intervention** | **Proposed Intervention (OFT, FLD, Training, extension activity etc.)\*** |
| 6.1 | **Cereals-**finger millet, maize  **Pulses-**Field bean, redgram  **Vegetables-** potato, tomato, beans, capsicum, cabbage, cauliflower, Knolkhol, carrot, chilli, pole beans  **Fruit crops -**mango, jack, guava  **Plantation crops -**Arecanut  **Flower crops –** gerbera, carnation, chrysanthemum, marigold  **Animal husbandry-** cows, buffaloes, sheep, goat and backyard poultry  **Fodder crops-** African tall, Napier grass  **Others –** sericulture, mushroom cultivation | * Lack of soil testing * Low yields in cereals and pulses * Lack of knowledge on improved varieties/hybrids in field and horticultural crops * Lack of knowledge on integrated pest, disease and nutrient management * Lack of knowledge on seed treatment * Lack of knowledge on use of bio pesticide * Less knowledge about rain water harvest and ground water recharge * Lack of awareness on biofertilizers and scientific composting techniques * Lack of knowledge on market information channels * Lack of knowledge on balanced nutrition among school children * Lack of knowledge on terrace gardening * Lack of knowledge on improved storage techniques * Less acceptability of value added products from existing varieties due to brown colour * Imbalanced nutrition, wilt and pod borer incidence in Redgram * Fertility problems in cross breeds and local cows * Lack of awareness on importance of soil and water conservation practices * Lack of awareness about improved fodder varieties * Lack of awareness about utilization of unconventional feed resources such as Jack fruit residue and feeding as silage * Lack of awareness about scientific drying techniques, importance of nutrition for family, low cost vegetable storage techniques, lack of value addition * Lack of readily available substrate material for mushroom cultivation | * 95 per cent farmers have not got soil tested * More than 80 per cent borewells are dried up * About 75 per cent of the famers are indiscriminately using plant protection chemicals * 75 per cent famers are not managing the dairy scientifically * Post harvest losses in fruits and vegetables is over 30 per cent due to lack of knowledge on storage techniques * > 40% blast incidence in finger millet * 40% infestation of mango hoppers, stem borer and powdery mildew * 70% of anemia in rural adolescent girls * 60 per cent famers are not managing the dairy scientifically * 20-40% losses in post harvest activities of fruits * 15% reduction in yield due to imbalanced nutrition in Guava | Thippuru,  Gundasandra,  Vanigarahalli,  Nagashettihalli,  Cheelenahalli,  -**Doddabelavangala&Tubagere Hobli**  –**Doddaballapur taluk** | OFT, FLD, Training for farmers and Extension functionaries & other extension activities |
| 6.2 | **Cereals-**finger millet, maize  **Pulses-** redgram, bengalgram  **Vegetables-** cabbage, cauliflower, beetroot, carrot, solanaceous crops, bhendi, pole beans, capsicum  **Flower crops –** gerbera, carnation, chrysanthemum, marigold  **Fruit crops -** grapes, mango, sapota  **Animal husbandry-** cows, buffaloes, sheep, goat and backyard poultry  **Others-** flower crops, fodder crops, sericulture  **Fodder crops-**African tall and napier grass | * Lack of soil testing * Lack of knowledge on improved varieties/hybrids in horticultural crops * Wilt and drought susceptible variety Annigeri – 1, Moisture stress during crop growth period, Low yield in bengalgram * Reduced flower size, poor quality flowers (un opened buds) in chrysanthemum * Lack of knowledge on integrated pest & disease management * Imbalanced and insufficient use of nutrients in field and horticultural crops * Non availability of nutritious green fodder * High incidence of pests and diseases in vegetables * Indiscriminate use of plant protection chemicals * Dry fodder is not being utilized properly * Marketing of high value fruit crops is not channelized * Lack of knowledge on market information channels * Lack of knowledge on use of underutilized greens in daily diet. * Lack of awareness about fodder cafeteria with cereal, pulse and tree fodder crops, * Lack of awareness about detection of Mastitis at sub-clinical stage * Lack of awareness about low cost, scientific terrace gardening techniques, kitchen waste segregation and management | * 90 per cent farmers have not got soil tested * About 65 per cent of the famers are indiscriminately using plant protection chemicals (traders recommendation) * 70 percent farmers are not following balanced plant nutrition * 42% DBM and Black rot infestation in cauliflower * 20% area of beetroot cultivation is affected by malformation and variation in root size and splitting problem. * 12% reduction in yield in capsicum due to imbalanced nutrition, pests and diseases * 50% incidence of YMV, rust, anthracnose, leaf miner in pole beans * Uneven berry size and loose bunches in grapes due to micro nutrient deficiency | Bidaluru,  Anighatta,  Savukanahalli, Meesaganahalli,  Cheemachanahalli  Doddakurubarahalli  Devanahalli town  **-KasabaHobli**  **-Devanahalli taluk** | OFT, FLD, Training for farmers and Extension functionaries & other extension activities |
| 6.3 | **Cereals-**finger millet, maize  **Pulses-**Field bean, redgram, cowpea  **Vegetables-**cabbage, tomato, cole crops, carrot, chilli, drumstick, Potato Ridge gourd, cucumber and cabbage  **Fruit crops –**Banana, grapes, mango, jack,  **Plantation-** coconut, Arecanut  **Animal husbandry-** cows, buffaloes, sheep, goat and backyard poultry | * No soil testing practices * Low yields in cereals and pulses * Improper use of fertilizers and plant protection chemicals in vegetables * Lack of knowledge on use of bio pesticide * Lack of knowledge on seed treatment * Lack of awareness on vermi composting and bio fertilizer * Lack of knowledge on scientific dairy management * Lack of awareness on late blight management in tomato * Lack of knowledge on branding and market linkage * Lack of knowledge on ICM practices in pulses * Lack of knowledge on Integrated Management practices in vegetables * Lack of knowledge on Management of nut splitting, lack of application of micro nutrients * Lack of awareness about IPM practices, Fertigation for balanced nutrition, Mulching for water and weed control * Lack of awareness about balanced nutrition in dairy animals * Nutrition insecurity, non-availability / High cost of vegetables, Unhygienic methods of handling foods | * 70 per cent farmers are not following soil & water conservation practices. * 60 per cent farmers are not aware of improved varieties on field and horticulture crops * 70 per cent farmers are not managing dairy scientifically * 85 per cent farmers are using fertilizers and pesticides indiscriminately * About 60 per cent of the bore well are dried up and looking for low water requirement crops * > 20% wilt incidence in Redgram * 20% yield loss in banana due to panama wilt * > 33% incidence of downy mildew in cucumber * > 48% incidence of ToLCV, Bacterial wilt, Early blight, Late blight, leaf miner & fruit borer in tomato | K R Pura,  Obalapura,  Kodigehalli,  Kenchanapura,  Balagere  **-ThyamagondluHobli**  **-Nelamangala taluk** | OFT, FLD, Training for farmers and Extension functionaries & other extension activities |
| 6.4 | **Cereals-**finger millet, maize  **Pulses-** field bean, redgram,  **Vegetables-**cole crops, solanaceous crops, gourds, coriander, carrot, chilli, potato, pole beans  **Fruit crops -** mango, grapes  **flower crops –**rose, marigold  **Animal husbandry-** cows, buffaloes, sheep, goat and backyard poultry  **Others -** sericulture, lemon grass | * Lack of knowledge on soil testing * Low yields in cereals and pulses * Imbalanced nutrition, wilt and pod borer incidence in finger millet * Lack of knowledge on improved varieties/hybrids in field and horticultural crops * Lack of knowledge on integrated pest & disease management * Soils are becoming sick due to continuous and indiscriminate use of pesticides and fertilizers * Lack of awareness on vermi composting techniques * Lack of knowledge on market information channels * Lack of awareness about treatment for Endo &Ecto-parasites in Dairy animals | * 49 per cent farmers are not following soil test * >50% incidence of YMV, rust, anthracnose, leaf miner in pole beans * About 40 per cent of the famers are indiscriminately using plant protection chemicals * 70 percent farmers are not following balanced soil & plant nutrition * 90 per cent famers are not managing the dairy scientifically * 95 per cent bore wells are dried up and only 5 per cent bore wells are functioning * > 65% of malnutrition in goat due to unbalanced diet. * > 48% of incidence of late blight in tomato | Kallahalli,  Kumbalahalli, Alappanahalli,  Upparahalli  **-KasabaHobli**  **-Hosakote taluk** | Training for farmers and Extension functionaries & other extension activities |

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

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| **S.No** | **Crop/ enterprise** | **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 for the**  **Intervention**  **(Rs.)** | **Parameters to be studied** | **Team members** |
| 7.1 | Bengal gram | -Low yield due to wilt incidence  -Moisture stress during crop growth period | Assessment of Bengal gram varieties for wilt and drought conditions | T1 – Annigere-1  T2- JG-11  T3- JAKI-9218  T4-GBM-2 | UAS, B JNKVV & ICRISAT  UAS, Raichur | Seeds  Coriander seeds  Jowar seeds  Rhizobium  CaCl2  NPV  Traps and lures  Spinosad (Microbial)  Board+Field day | 25 kg  1 kg  5 kg  0.5 kg  0.5 kg  100 ml  (4+4)  750 ml | 1500  90  450  50  250  280  320  1300  **4240** | 05 (2 ha) | 21, 200  5000  **26,200** | Soil fertility status (pre & post)  Germination & establishment  Day to 50% flowering,  % wilt incidence, pod borer incidence  Yield, B:C ratio | SMS-PP  SMS-SS  PC-Hort |
| 7.2 | Cucumber | Incidence of Downy mildew (>33%) | Assessment on Management of Downy mildew in Cucumber | T1 - CoC (0.3%), Mancozeb (0.2%), Cymoxanil+ Mancozeb (0.3%), Metalaxyl + Mancozeb (0.2%), Chlorothalonil (0.2%), Dimethomorph (0.1%) + Captan (0.2%), CoH, Propineb  T2 - Spray the crop with Metalaxyl + Mancozeb (0.2%) and Cymoxanil+ Mancozeb (0.2%)  T3 - Seed treatment with *Trichodermaharzianum* (5g/kg seeds), *Trichoderma* enriched Farm Yard Manure (@ 1 kg / 10 kg FYM), application to the basins and spraying Fosetyl-Al (0.2%) and Dimethomorph (0.1%) + Mancozeb (0.2%)  T4- Soil application of *Trichodermaharzianum* enriched Farm Yard Manure and spraying of Metalaxyl+ Mancozeb (0.2%) and Cymoxanil+ Mancozeb (0.2%) | UAS, B  IIHR & IIVR | *Trichodermaharzianum*  Metalaxyl+ Mancozeb  Fosetyl-Al  Dimethomorph+  Mancozeb  Board + Field day | 5lt  1.0 kg  0.2 lt  0.2 kg+  1.0 kg | 2150  1500  1250  1630  **6530** | 05 (1.40 ha) | 32,650  5000  **37,650** | Soil fertility status (pre & post)  % Downy mildew Late incidence, No. of Fungicide sprays, Cost of sprays, Yield, B:C ratio | SMS-PP  PC-Hort |
| 7.3 | Chrysanthemum | Reduced flower size, poor quality flowers | Assessment of GA3 and Boron for flower quality in chrysanthemum | T1: RDF, Non-use of Growth Regulators and micronutrient  T2: Foliar spray of GA3 @ 50ppm at 15, 30 and 45 DAT + Foliar application of B (0.1%)  T3: Foliar spray of GA3 @ 50 ppm at 30, 45 & 60 DAT-+ Foliar application of B (0.2%) | IIHR & TNAU | GA3  Borax  Board+ Field day | 10 gm  12 kg | 150  180  **330** | 06 (0.6 ha) | 1980  5000  **6,980** | Soil fertility status (pre & post)  Quality traits  Yield traits B:C ratio | SMS-SS  PC (Hort) |
| 7.4 | Dairy enterprise | High cost of milk production  Non-availability of green fodder | Assessment of Jackfruit Residue as Silage for Dairy Animals | T1: Imbalanced feeding  T2 : Balanced feeding of dry fodder, green fodder, concentrates  T3 : Replacement (25%) of green forages with jackfruit residue (silage) | KVAFSU NIANP, Bengaluru | Drums/ silage bags  Feeding buckets  Board+ Field day | 1  1 | 500  250  **750** | 10 animals | 7500  5000  **12,500** | Milk yield  SNF  Fat %  B:C Ratio | SMS-AS  Hort (PC) |
| 7.5 | Jack fruit | Poor storage due to perishable nature  Unhygienic drying  Low income during glut | Solar drying - A Hygienic Technique for Value Addition in Jack | T1: Fresh Jack fruit  T2: Direct Sun Drying  T3: Solar Drying | RVSCET, Coimbatore | Packaging material  Ingredients  Microbial analysis  Board+ Field day | - | 1000  2000  3000  **6000** | 1 at KVK | 6000  5000  **11,000** | Jackfruit Dry yield  Drying period  Economics  Keeping quality (days)  Acceptability  Microbial load | SMS-HS  Hort (PC)  SMS-AE |
| 7.6 | Mushroom | Non availability of paddy straw  High cost of substrate  High cost of Ragi straw  Food & nutrition insecurity in rural areas | Assessment of Local Crop Waste as Substrate for Oyster Mushroom Cultivation | T1: Paddy straw as substrate  T2: Maize stalk as substrate  T3: Arecanut husk as substrate  T4: Coconut (leaf stalk+ bunch waste) as substrate | IIHR, Bengaluru TNAU, Coimbatore  CPCRI, Kasargod | Polythene covers  Spawn  Sprayer  Board+ Field day | - | 2000  1200  500  **3700** | 4 | 14800  5000  **19,800** | Suitability of substrate  Yield  Biological efficiency  Cost of production  Labour | SMS-AE  SMS-HS  Hort (PC) |

## 8. Technology Refinement during 2016-17 - Nil

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| **S.No.** | **Crop/ enterprise** | **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 for the**  **intervention(Rs.)** | **Parameters to be studied** | **Team members** |
| 8.1 |  |  |  |  |  |  |  |  |  |  |  |  |

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

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No** | **Category** | **Crop/ enterprise** | **Prioritized problem** | **Technology to be demonstrated** | **Specify Hybrid or Variety** | **Name of the Hybrid or 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 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9.2 | Millets | Finger millet | Intermittent drought and blast incidence | Addressing drought and blast in Finger millet | Variety | ML-365 | UAS(B) 2009 | Seeds  Azospirillum  Board+Field day | 10 kg  0.5 kg | 350  45  **395** | 30 (12 ha) | 11850  5000  **16,850** | Soil fertility status (pre & post), Germination& establishment, No. of effective tillers/plant, yield ,  B:C ratio | SMS – AE  SMS-PP |
|  | Millets | Finger millet | Less acceptability of value added products from existing varieties due to brown colour | Introduction of Finger millet Variety KMR 340 for Value Addition | Variety | KMR 340 | UAS (B) | **Seeds (KMR-340)**  **Azospirillum**  **Value addition**  Board+Field day | 25 kg  0.5kg | -  45  1080  **1,125** | 5 (1 ha) | 5625  5000  **10,625** | Yield parameters  Consumer acceptance | SMS – HS, SS, PP  PC-Hort |
| 9.3 | Oilseeds |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9.4 | Pulses | Redgram | ->30% wilt incidence  -No proper adoption of pest and disease management production techniques | Integrated crop management in Redgram  **NFSM** | Variety | BRG-5 | UAS(B) 2013 | Seeds  Jowar  PSB  Rhizobium  Cacl2  Pheromon traps  NPV  Spinosad (0.25 ml/L)  Propargite (1.0 ml/L)  Pulse magic  Board + Field Day | 6 kg  5 kg  0.5 kg  0.5 kg  0.5 kg  4 Nos  0.2 ltr  75 ml  0.5 ltr  1.0 kg | 570  450  45  45  250  320  560  1300    600  800  **4,940** | 15  (6 ha) | **74100**  5000  **79,100** | -Soil fertility status (pre & post),  Germination & establishment,  Days to 50% flowering, No. of pods/plant % incidence of wilt& pod borer, yield,  B:C ratio | SMS-SS  SMS-PP |
|  |  | Bengal gram | > 20% Wilt incidence  > 38% Pod borer menace | Integrated crop management in Bengalgram  **NFSM** | Variety | JAKI 9218/JG-11 | UAS (B)  2013 | Coriander seeds  JG-11/JAKI 9218 Seeds  Cacl2  Jowar  Rhizobium  NPV (1.0 ml/L  Traps & lures  Spinosad (0.25 ml/L)  Board + Field Day | 1kg  25 kg  0.5 kg  5 kg  0.5kg  200m  4+4  75 ml | 90  1500  250  450  50  560  320  1300  **4,520** | 20  (8 ha) | 90400  5000  **95,400** | Soil fertility status  (pre & post)  Pod borer incidence (%)  Wilt incidence (%)  Yield, B:C ratio | SMS-PP  SMS-SS |
| 9.5 | Commercial crops |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9.6 | Horticultural crops | Pole beans | > 50% incidence of YMV, Rust, anthracnose, Leaf miner | Integrated Pest and Disease Management | Hybrid | Classic NZ | UAS (B) 2014 | SA tall maize  Yellow sticky Traps  Imidacloprid (0.5 ml/L  Thiomethoxam (0.3g/L)  Propiconazole (1.0 ml/L)  Thiophanate methyl (1.0 g/L)  Oxydemeton methyl (2.0 ml/L)  Board+Field day | 2 kg  4  0.5 lt    100 g  250 ml  0.5 kg  0.5 lt | FC  240  1000  550  475  750  FC  **3,015** | 5  (1 ha) | 15075  5000  **20,075** | Soil fertility status (pre & post)  % pest incidence  % disease incidence  Yield, B:C ratio | SMS-PP  SMS – SS  PC-Hort |
|  |  | Tomato | > 27% incidence of ToLCV, Bacterial wilt, Early blight, Late blight, leaf miner & fruit borer | Integrated Management of Major Pests and Diseases | Hybrid | Arka  Rakshak | IIHR & UAS (B) | ArkaRakshak seeds  Trichodermaharzianum  Pseudomonas fluorescens  Yellow sticky traps  Pheramone traps +lures  NPV (1.0 ml/L)  Dimethomorph (1.0 g/L)  Mancozeb (2.0 g/L)  Board+ Field day | 10 g  5 kg  5 kg  10  4+4  100 ml  0.2 kg  1 kg | 300  1000  1150  240  340  280  1250  380  **4,940** | 05  (1 ha) | 24,700  5000  **29,700** | Soil fertility status (pre & post)  % pest incidence  % disease incidence  Yield, B:C ratio | SMS-PP  PC-Hort |
|  |  | Mango | 40% infestation of mango hoppers, stem borer, fruit fly, powdery mildew and anthracnose | Effective management of pests & diseases in Mango | - | - | IIHR 2011 | Healer & Sealer  Fruit fly traps+lures  Imidacloprid (0.5 ml/L)  Lambda cylothrin (0.5 ml/L  Dichlorovos  Thiophanate methyl (1.0 g/L)  Dinocap (2.0 ml/L)  Board + Field Day | 1 kg  5+5 Nos  0.5 lt  0.5 lt  0.5 lt  500g  500ml | 150  475  1000  550  FC  750  800  **3,725** | 05  (1 ha) | **18625**  5000  **23,625** | Soil fertility status (pre & post), % Pest & disease incidence, yield,  B:C Ratio | SMS-PP  PC-Hort  SMS-Ag Extn. |
|  |  | Grapes | >20% Uneven berry size, non-uniform maturity, non-uniformity in colour and loose bunches due to micro nutrient deficiency | Enhancing grapes quality through use of Grapes Special and AMC | - | - | IIHR-2013 | Grape special  AMC  (100 g/vine)  Board + Field Day | 4 kg  9 kg | 600  900  **1,500** | 5 (1 ha) | 7500  5000  **12,500** | Soil fertility status (pre & post)  % fruit drop  Fruit quality  Yield & B:C ratio | SMS-SS  PC-Hort |
|  |  | Guava | Bronzing  Poor quality fruits  15% yield reduction  Soils deficient in (Zn ) | Management of Bronzing in Guava | Variety | Allahabad safed | IIHR-2013 | ZnSo4  DAP  Board + Field Day | 4 kg  2 kg | 200  80  **280** | 10  (2 ha) | 2800  5000  **7,800** | Soil fertility status (pre & post)  Yield parameter  Yield & B:C ratio | SMS-SS  PC-Hort  SMS-PP |
|  |  | Capsicum | Imbalanced nutrition  Wilt incidence (> 20%)  Thrips& mites infestation  Reduction in yield (20%) | Integrated Crop Management in Capsicum | - | - | IIHR | Vegetable Special  ArkaActino plus  Sticky traps  Propargite  Fipronil  Board + Field Day | 3 kg  3 kg  0.3 lt  1.5 lt | 450  240  50  250  300  **1,290** | 5 (1 ha) | 6450  5000  **11,450** | Soil fertility status (pre & post)  Microbial load in soil  % wilt incidence  Quality parameters  Yield parameters  Yield and B:C ratio | Hort (PC)  SMS-SS,PP |
| 9.7 | Livestock | Dairy animals | Lower milk yield  Lower milk quality (fat %, SNF)  Incidence of Ruminalacidosis | Ration Balancing through Integrated Approach | - | - | NIANP KVAFSU | Silpaulin sheet  Silage bags/drums  Feed chart  Board + Field Day | - | 500  500  20  **1,020** | 10 animals | 10200  5000  **15,200** | Milk yield, Milk fat % Milk SNF | SMS-AS, SS |
|  |  | Dairy animals | Lower milk yield  Fibrosis of the udder  Lower milk quality | Integrated Management of Mastitis | - | - | KVAFSU | CMT kits  Povidone iodine liquid  Cobactin, Enrofloxacin  Melanex inj.  Vitamin ADE3 injection  Board + Field Day | - | 500  400  800  400  **2,100** | 10 animals | 21000  5000  **26,000** | Milk yield, Incidence of Mastitis, B:C Ratio | SMS-AS, AE |
|  |  | Dairy animals | Lice, ticks and fleas infestation  Anemia  Lower milk yield | Integrated Management of Endo and Ecto parasites | - | - | KVAFSU | Flumethrin liquid  Ivermectin injection  Butox spray  Board + Field Day | - | 500  500  400  **1,400** | 10 animals | 14000  5000  **19,000** | Incidence of Ectoparasitic infestation  Hemoglobin  RBC count  TLC count | SMS-AS, PP |
| 9.8 | Fisheries |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9.9 | Others |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Fodder | Non availability of green fodder throughout the year  Less nutritious fodder | Promotion of fodder cafeteria for regular green fodder availability | - | - | UAS(B) | Fodder sorghum var. COFS-29/31 seeds  Lucerne  M.dubia seedling  Board+ Field day | 1.0 kg  3 kg  5 Nos. | 1000  1500  200  **2,700** | **10**  **(1 ha)** | **27000**  **5000**  **32,000** | Soil fertility status (pre & Post)  Plant height  Yield t/cut  Quantity of fodder left over  Milk yield | SMS-PP  SMS-AS |
|  |  | Nutrition garden | Nutrition insecurity  Non availability / High cost of vegetables  Unhygienic methods of handling foods  Lack of knowledge on nutrition | Improvement of Health and Knowledge status among School Children through Nutrition Garden | - | - | IIHR | Vegetable seed kits  Fruit and vegetable seedlings  Vermi compost  (Community contribution)  Vegetable special  Neem oil  Neem cake  Trichoderma  Veg preservator Hb test  Board+ Field day | 4  500 ml  20 kg  1 kg  1  10 samples | 240  2500  -  150  660  700  150  3000  1000  **8,400** | **4** | 33600  5000  **38,600** | Bio chemical (Hb) Anthropometric  Dietary information  Clinical symptoms  KAP test | SMS-HS, PC, All SMS |
|  |  | Kitchen waste management | Lack of awareness on improved methods of kitchen waste management | Eco friendly Management of Kitchen Waste and Home Gardening | - | - | - | Daily Dump kit | 1 | 3600  **3,600** | **4** | 14400  5000  **19,400** | Cost economics  Compost yield  Quantification  Economics  Savings | SMS-HS, PC, All SMS |

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No.** | **Thematic area** | **Crop / Enterprise** | **Major problem** | **Related field intervention (OFT/FLD)\*** | **Training Course Title\*\*** | **No. of Courses** | **Expected No. of participants** | **Names of the team members involved** |
| 10.1 | Crop Production | Finger millet | Intermittent drought and blast incidence | FLD | Importance of Finger millet var. ML-365 and KMR 340 | 2 | 50 | SMS-Agro, AE, SS, PP, HS |
|  |  | Redgram | Imbalanced nutrition, wilt and pod borer incidence | FLD | Importance of integrated crop management in Redgram var. BRG-5 | 1 | 25 | SMS-Agro, SS, PP |
|  |  | Bengalgram | Wilt and drought susceptibility | OFT, FLD | Training-IPM in Bengal gram | 1 | 25 | SMS-Agro, SS, PP |
|  |  | Fodder | Non availability of green fodder throughout the year | FLD | Importance of multi cut fodders for higher yield and quality | 1 | 25 | SMS-Agro, AS |
| 10.2 | Horticulture Production | Chrysanthemum | Reduced flower size  Reduced yield | OFT | ICM in Chrysanthemum | 1 | 25 | SMS-PP, SS, Hort (PC) |
|  |  | Capsicum | Imbalanced nutrition, reduced yield | FLD | ICM in Capsicum | 1 | 25 | SMS-PP, SS, Hort (PC) |
|  |  | Guava | Reddening of fruits | FLD | Scientific cultivation in Guava | 1 | 25 | SMS-PP, SS, Hort (PC) |
| 10.3 | Livestock Production | Fodder | Non availability of green fodder | FLD | Feed and fodder management technologies in livestock | 1 | 25 | SMS-AS, Agro, Hort (PC) |
|  |  | Jack | Non efficient utilization of available feed sources | FLD | Ration balancing programme in dairy animals | 1 | 25 | SMS-AS, Agro, Hort (PC) |
|  |  | Dairy animals diseases | Prevalence of Mastitis and Ecto and Endo parasites | FLD | Control of mastitis and endo and ecto parasites in dairy animals | 1 | 25 | SMS-AS, Hort (PC) |
| 10.4 | Home Science | Kitchen waste management | Lack of knowledge on kitchen waste management | FLD | House hold Kitchen waste management | 1 | 25 | SMS-HS, AE, SS, PP, Hort (PC) |
| 10.5 | Plant Protection | Cucumber | Incidence of downy mildew | OFT | IPM in Cucumber | 1 | 25 | SMS-PP, SS, Hort (PC) |
|  |  | Mango | incidence of Mango hoppers, stem borer, Fruit fly  Powdery mildew and anthracnose | FLD | IPDM in Mango | 1 | 25 | SMS-PP, SS, Hort (PC) |
|  |  | Pole Beans | incidence of YMV, rust, anthracnose, leaf miner | FLD | IPDM in Pole Beans | 1 | 25 | SMS-PP, SS, Hort (PC) |
|  |  | Tomato | incidence of ToLCV, Bacterial wilt, Early blight, Late blight, leaf miner & fruit borer | FLD | Management of Late Blight in Tomato | 1 | 25 | SMS-PP, SS, Hort (PC) |
|  |  | Cabbage | Indiscriminate use of pesticides, non-adoption of integrated crop management practices | FFS | IPM in Cabbage | 1 | 25 | SMS-PP, SS, Hort (PC) |
| 10.6 | Production of Inputs at Site | Bio fertilizers | Indiscriminate use of fertilizers | Training | Role of bio fertilizers in soil health management | 1 | 25 | SMS-PP, SS, Hort (PC) |
| 10.7 | Soil Health and Fertility | Chrysanthemum | Reduced flower size  Poor quality flowers | OFT | INM in Chrysanthemum | 1 | 25 | SMS-SS, PP, Hort (PC) |
|  |  | Capsicum | Imbalanced nutrition | FLD | INM in Capsicum | 1 | 25 | SMS-SS, PP, Hort (PC) |
|  |  | Guava | Imbalanced nutrition | FLD | INM in Guava | 1 | 25 | SMS-SS, PP, Hort (PC) |
| 10.8 | PHT and value addition | Finger millet | Less acceptability of value added products from local varieties due to white colour | FLD | Promotion of Finger millet variety KMR 340 for value addition | 1 | 25 | SMS-HS, SS, PP, Hort (PC), AE |
|  |  | Jack fruit | Poor storage due to perishable nature, Unhygienic drying  Low income during glut | OFT | Production of jackfruit products using solar Drying technique | 1 | 25 | SMS-HS, SS, PP, Hort (PC), AE |
|  |  | Nutrition garden | Nutrition insecurity  Malnourishment in children | FLD | Importance of fruits & vegetable for good health among school children | 1 | 25 | SMS-HS, SS, PP, Hort (PC), AE |
| 10.9 | Capacity Building Group Dynamics |  |  |  |  |  |  |  |
| 10.10 | Farm Mechanization |  |  |  |  |  |  |  |
| 10.11 | Fisheries Production |  |  |  |  |  |  |  |
| 10.12 | Mushroom production |  |  |  |  |  |  |  |
| 10.13 | Agro forestry |  |  |  |  |  |  |  |
| 10.14 | Bee Keeping |  |  |  |  |  |  |  |
| 10.15 | Sericulture |  |  |  |  |  |  |  |
|  | Others |  |  |  |  |  |  |  |

\* Title of intervention/title of technology, \*\* Training title should specify the major technology/skill to be transferred.

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No.** | **Thematic area** | **Crop / Enterprise** | **Major problem** | **Linked field intervention (Assessment/Refinement/FLD)\*** | **Training Course Title\*\*** | **No. of Courses** | **Expected No. of participants** | **Names of the team members involved** |
| **11.1** | Crop Production | - | - | **-** | - | - | - | - |
| **11.2** | Horticulture Production | - | - | **-** | - | - | - | - |
| **11.3** | Livestock Production | Poultry | Lack of awareness about scientific poultry management | Training | Entrepreneur development programme (EDP) on ‘Poultry farming’ | 1 | 25 | SMS-Ag.Extn  SMS-Animal Sc |
| **11.4** | Home Science | Bakery | Lack of knowledge on value addition and baking technology | Training | Bakery and confectionery technology | 1 | 25 | SMS-Ag.Extn  SMS-Home Sc |
| **11.5** | Plant Protection | - | - | **-** | - | - | - | - |
| **11.6** | Production of Inputs at Site | - | - | **-** | - | - | - | - |
| **11.7** | Soil Health and Fertility | - | - | **-** | - | - | - | - |
| **11.8** | PHT and value addition | - | - | **-** | - | - | - | - |
| **11.9** | Capacity Building Group Dynamics | - | - | **-** | - | - | - | - |
| **11.10** | Farm Mechanization | - | - | **-** | - | - | - | - |
| **11.11** | Fisheries Production Technologies | - | - | **-** | - | - | - | - |
| **11.12** | Mushroom production | Mushroom | Lack of awareness on mushroom cultivation techniques | OFT and Training | Entrepreneur Development Programme (EDP) on Mushroom cultivation | 3 | 75 | SMS-AE, HS |
| **11.13** | Agro forestry | - | - | **-** | - | - | - | - |
| **11.14** | Bee Keeping | - | - | **-** | - | - | - | - |
| **11.15** | Sericulture | - | - | **-** | - | - | - | - |
| **11.16** | Natural resource management | - | - | **-** | - | - | - | - |

\* Title of intervention/title of technology, \*\* Training title should specify the major technology/skill to be transferred.

### 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 | Important production technologies in field crops | 1 | 25 | SMS-Ag.Extn, Agron, PC-Hort |
| **12.2** | Home Science | Health and nutrition education for Anganwadi workers | 1 | 25 | SMS-Ag. Extn, Home Science |
| Kitchen Waste Management & Home Gardening | 1 | 25 | SMS-Ag. Extn, Home Science |
| **12.3** | Capacity Building and Group Dynamics | Participatory training management for trainers in line departments | 1 | 25 | SMS-Agril. Extension, Soil Science, Home Sc |
| Group dynamics, group formation and management | 1 | 25 | SMS-Agril. Extension, Home Science |
| **12.4** | Horticulture | Critical production techniques in horticulture | 1 | 25 | SMS-Agril. Extension, PC-Hort, Soil Sc |
| Precision farming in horticulture | 1 | 25 | SMS-Agril. Extension, PC-Hort, Plant Prot |
| **12.5** | Livestock Production & Management | Ration balancing in dairy nutrition | 1 | 25 | SMS-Agril. Extension, Animal Science |
| Management of infertility and health in dairy animals | 1 | 25 | SMS-Agril. Extension, Animal Science |
| **12.6** | Plant Protection | - | - | - | - |
| **12.7** | Farm Mechanization | - | - | - | - |
| **12.8** | PHT and value addition | - | - | - | - |
| **12.9** | Production of Inputs at Site | - | - | - | - |
| **12.10** | Sericulture | Critical techniques in mulberry cultivation & silkworm rearing | 1 | 25 | SMS-Agril. Extension, Soil Science, Farm Manager |
| **12.11** | Fisheries | Low cost fish production through community approach | 1 | 25 | SMS-Agril. Extension, Animal Science |
| **12.12** | Soil & Water | Soil and water conservation and management practices | 1 | 25 | SMS-Agril. Extension, Soil Science |

\* Title of intervention/title of technology, \*\* Training title should specify the major technology/skill to be transferred.

## 13. Vocational trainings during 2016-17

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No.** | **Thematic area and the Crop/Enterprise** | **Training title\*** | **No. of programmes and Duration (days)** | **Type of Clientele**  **(SHGs, NYKs, School students, Women, Youth etc.)** | **Expected No. of participants** | **Sponsoring agency if any** | **Names of the team members involved** |
| 13.1 | Crop Production | - | - | - | - | - | - |
| 13.2 | Home Science | Bakery and confectionery technology | 1(5 days) | Youth | 25 | - | SMS-Agril. Extension  SMS-Home Science  PC-Horticulture |
| 13.3 | Capacity Building and Group Dynamics | - | - | - | - | - | - |
| 13.4 | Horticulture | - | - | - | - | - | - |
| 13.5 | Livestock Production & Management | Entrepreneur development programme (EDP) on ‘Poultry farming’ | 1(5 days) | Youth | 25 |  | SMS-Agril. Extension  SMS-Animal Science  PC-Horticulture |
| 13.6 | Plant Protection | - | - | - | - | - | - |
| 13.7 | Farm Mechanization | - | - | - | - | - | - |
| 13.8 | PHT and value addition | - | - | - | - | - | - |
| 13.9 | Production of Inputs at Site  (quality planting material) | - | - | - | - | - | - |
| 13.10 | Mushroom production | Entrepreneur Development Programme (EDP) on Mushroom cultivation | 3(1 day) | Youth | 25 |  | SMS-Agril. Extension  SMS-Home Science  PC-Horticulture |
| 13.11 | Sericulture | - | - | - | - | - | - |
| 13.12 | Fisheries | - | - | - | - | - | - |
| 13.13 | Resource Management | - | - | - | - | - | - |

\* Training title should specify the major technology/skill to be transferred.

## 14. Sponsored trainings during 2016-17

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No.** | **Thematic area and the Crop/Enterprise** | **Training title\*** | **No. of programmes and Duration (days)** | **Type of Clientele**  **(SHGs, NYKs, School students, Women, Youth etc.)** | **Expected No. of participants** | **Sponsoring agency** | **Names of the team members involved** |
| 14.1 | Crop Production | - | **-** | **-** | **-** | **-** | **-** |
| 14.2 | Home Science | - | **-** | **-** | **-** | **-** | **-** |
| 14.3 | Capacity Building and Group Dynamics | - | **-** | **-** | **-** | **-** | **-** |
| 14.4 | Horticulture | - | **-** | **-** | **-** | **-** | **-** |
| 14.5 | Livestock Production & Management | - | **-** | **-** | **-** | **-** | **-** |
| 14.6 | Plant Protection | - | **-** | **-** | **-** | **-** | **-** |
| 14.7 | Soil Science | - | **-** | **-** | **-** | **-** | **-** |
| 14.8 | Farm Mechanization | - | **-** | **-** | **-** | **-** | **-** |
| 14.9 | PHT and value addition | - | **-** | **-** | **-** | **-** | **-** |
| 14.10 | Production of Inputs at Site | Usefulness of Biofuel plants, nursery techniques, cultivation, harvesting, oil extraction, value addition to bi-products | 10 (1 day) | Students  Farmers/ farmwomen, etc | 300 | Karnataka State Biofuel Development Board (KSBDB) | PC  All SMSs  I&DC Staff |
| 14.11 | Sericulture | - | **-** | **-** | **-** | **-** | **-** |
| 14.12 | Fisheries | - | **-** | **-** | **-** | **-** | **-** |
| 14.13 | Natural Resource Management | - | **-** | **-** | **-** | **-** | **-** |

\* Programme title should specify the major technologies/skills to be transferred /refreshed.

## 15. Extension programmes during 2016-17

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Extension programme\*** | **No. of programmes or activities** | **Expected No. of participants** | **Names of the team members involved** |
| 15.1 | Advisory Services | 220 | 380 | PC & All SMSs |
| 15.2 | Diagnostic visits | Whenever necessary | - | Concerned subject |
| 15.3 | Field Day | 23 | 880 | PC & All SMSs |
| 15.4 | Group discussions | 15 | 375 | PC & All SMSs |
| 15.5 | KisanGhosthi | 06 | 210 | PC & All SMSs |
| 15.6 | Film Show | 45 | 1250 | PC & All SMSs |
| 15.7 | Self -help groups | 02 | 40 | SMS(HSc), SMS(Ag.Extn) |
| 15.8 | KisanMela | 01 | 100 | PC & All SMSs |
| 15.9 | Exhibition | 05 | 4750 | PC & All SMSs |
| 15.10 | Scientists' visit to farmers field | 180 | 180 | PC & All SMSs |
| 15.11 | Plant/Soil health/Animal health camps | 05 | 250 | SMS(Crop Protn.), SMS(Soil Sc.), SMS(Animal Sc) |
| 15.12 | Farm Science Club | 10 | 200 | SMS(HSc), SMS(Ag.Extn) |
| 15.13 | Ex-trainees Sammelan | 01 | 50 | PC & All SMSs |
| 15.14 | Farmers' seminar/workshop | 01 | 50 | PC & All SMSs |
| 15.15 | Method Demonstrations | 23 | 840 | PC & All SMSs |
| 15.16 | Celebration of important days | 06 | 600 | PC & All SMSs |
| 15.17 | Special day celebration | 02 | 80 | PC & All SMSs |
| 15.18 | Exposure visits \* | - | - | - |
| 15.19 | Technology week \* | 01 | 150 | PC & All SMSs |
| 15.20 | Farmers Field School | 01 | 30 | PC & SMSs |
| 15.21 | Farm innovators meet | - | - | - |
| 15.22 | Awareness programs | 10 | 400 | PC & All SMSs |
| 15.23 | Pre Kharif and Pre Rabi Campaigns | 02 | 500 | PC & All SMSs |
| 15.24 | Awareness about Fasal Bima Yojana | 01 | 1000 | PC & All SMSs |
|  | Others, pl. specify |  |  |  |

*\* Organize the programmes if funds are provided*

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

**16.1 Technological knowledge**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Category** | **Details of technologies** | **Area (ha)/**  **Number** | **Names of the team members involved** |
| 16.1.1 | Technology Park/ Crop cafeteria | Nutrition garden, Crop museum - Fodder, Finger millet, Redgram, Field bean, etc | 01 ha | PC & All SMSs |
| 16.1.2 | Demonstration Units | - | - | - |
| 16.1.3 | Lab Analytical services | Soil testing and fertilizer recommendation based on STV  Testing the quality of irrigation water | 1200 Nos.  800 Nos. | SMS(SS&AC) and Training Assistant  SMS(SS&AC) and Training Assistant |
| 16.1.4 | Technology Week | IFS, Value Addition and Market linkage | 01 No. | PC & All SMSs |

**16.2 Technological Products**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Category** | **Name of the product** | **Quantity (q.)/ Number planned to be produced during 2015-16** | **Names of the team members involved** |
| 16.2.1 | Seeds | Finger millet (ML-365 and MR-6) | 45 q | Farm Manager, SMS(Agronomy) |
| Redgram (BRG-2 and BRG-5) | 50 q | Farm Manager, SMS(Agronomy) |
| 16.2.2 | Planting materials | Jack, Mango, Papaya, Guava, Lime, Jamun, drumstick, curry leaf, pomegranate, Amla, Amruthaballi, Tulasi, Doddapatre,Fodder slips, etc. | 20000 Nos. | PC, Farm Manager |
| 16.2.3 | Bio-products | Vermi compost | 06 tons | SMS-Agron, SMS (SS&AC)&Farm Manager |
| Vegetable special – nutrient mixture | 01 ton | SMS(SS&AC) |
| 16.2.4 | Livestock strains | Calves | 04 Nos. | SMS (Animal Science), Farm Manager |
| Piglets | 20 Nos. | SMS (Animal Science), Farm Manager |
| Poultry | 50 Birds | SMS (Animal Science), Farm Manager |
| Sheep | 5 Nos. | SMS (Animal Science), Farm Manager |
| 16.2.5 | Fish fingerlings | - | - | - |
| 16.2.6 | Value added millet products | Cleaning and milling | 700 kg | SMS – Home Science &  Training Assistant |
| Finger millet malt | 25 kg |
| Finger millet Papad | 20 kg |
| Finger millet Mixture | 20 kg |

**16.3 Technological Information**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Category** | **Technological capsules / Number** | **Names of the team members involved** |
| 16.3.1 | Technology backstopping to line departments |  |  |
|  | Agriculture | 06 | PC & All SMSs |
|  | Horticulture | 01 | PC-Hort, SMS-PP, SMS-SS |
|  | Animal Husbandry | 01 | SMS-AS |
|  | Fisheries | - |  |
|  | Agricultural Engineering | - |  |
|  | Sericulture | - |  |
|  | Others, pl. specify | - |  |
| 16.3.2 | Literature/publication | 15 | PC & All SMSs |
| 16.3.4 | Electronic Media | 05 | PC & All SMSs |
| 16.3.5 | Kisan Mobile Advisory Services | 60 | Programme Asst. (Computer) & All SMSs |
| 16.3.6 | Information on centre/state sector schemes and service providers in the district. | 01 | PC & All SMSs |

## 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 | Karnataka State Biofuel Development Board, GOK | Information & Demonstration Centre on Biofuel | Biofuel seed procurement, storage and extraction of bio diesel, cake, etc | 5,00,000/- | PC and SMS(Agronomy),  I&D Centre Staff |
| 17.2 | ICAR | Attracting and Retaining Youth in Agriculture (ARYA) | Employment and Livelihood Security for Rural Youth through Innovative Entrepreneurship Models | 85,00,000/- | PC and All SMSs |

**18. Revolving Fund**

**18.1 Financial status**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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 31.12.2016 (Including value of material in stock/likely to be produced)** |
| 3.21 | 5.59 | 5.84 | 3.46 | 5.38 |

**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 | 95 q | 2,75,000/- | Farm Manager, SMS(Agronomy) |
| 18.2.2 | Production of planting material | 20000 Nos. | 3,50,000/- | PC(Horticulture), Farm Manager |
| 18.2.3 | Heifer production | 4 Nos. | 95,000/- | Farm Manager, SMS(Animal Science) |
| 18.2.4 | Piggery | 20 piglets | 45,000/- | Farm Manager, SMS(Animal Science) |
| 18.2.5 | Production of Vegetable special | 500 kg | 75,000/- | SMS(Soil Science), Training Assistant |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Type** | **No.of samples to be analyzed** | **Names of the team members involved** |
| 19.1 | Soil | 3000 | SMS(Soil Science), Training Assistant |
| 19.2 | Water | 800 | SMS(Soil Science), Training Assistant |

## 20. E-linkage during 2016-17

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Nature of activities** | **Likely period of completion (please set the time frame)** | **Remarks if any** |
| 20.1 | Title of the technology module to be prepared | - | - |
| 20.2 | Creation and maintenance of relevant database system for KVK | - | - |

**21. Activities planned under Rainwater Harvesting Scheme (only to those KVKs which are already having scheme under Rain Water Harvesting)**

|  |  |  |
| --- | --- | --- |
| **S. No** | **Activities planned** | **Remarks if any** |
| 21.1 | Proposal has been submitted to the Director, ATARI, Zone-VIII, Bangalore for establishment of Rainwater Harvesting with Micro Irrigation System | |

**22. Innovative Farmer’s Meet**

|  |  |  |
| --- | --- | --- |
| **S.No.** | **Particulars** | **Details** |
| 22.1 | Are you planning for conducing Farm Innovators meet in your district? | No |
| 22.2 | If Yes likely month of the meet | - |
| 22.3 | Brief action plan in this regard | - |

**23. Farmers School planned**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Thematic area** | **Title of the FFS** | **Budget proposed in Rs.** |
| 23.1 | Cabbage | Integrated Crop Management incabbage | 30,000/- |

**24. Innovative Activity**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Thematic area** | **Title of the Innovative Activity** | **Budget proposed in Rs.** |
| 23.1 | Balanced Animal Feed | Community Approach for Preparation of Balanced Animal Feed from Local Resources | 30,000/- |

**25. Budget - Details of budget utilization (2015-16) up to 31 January 2016**

**(Figures in Rs.)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Particulars** | **Sanctioned** | **Released** | **Expenditure** |
| **24.1** | **Recurring Contingencies** |  |  |  |
| 24.1.1 | **Pay & Allowances** | 8089000 | 8089000 | 6123324 |
| 24.1.2 | **Traveling allowances** | 100000 | 100000 | 157000 |
| 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 | 260254 |
| *B* | POL, repair of vehicles, tractor and equipments | 100000 | 100000 | 197990 |
| *C* | Meals/refreshment for trainees | 50000 | 50000 | 48030 |
| *D* | Training material | 25000 | 25000 | 62567 |
| *E* | Frontline demonstration except oilseeds and pulses | 16300 | 16300 | 133000 |
| *F* | On farm testing | 60000 | 60000 | 35332 |
|  | NFSM | 150000 | 150000 | 143923 |
| *G* | Training of extension functionaries | 0 | 0 | 0 |
| *H* | Maintenance of buildings | 0 | 0 | 0 |
| *I* | Farmers’ Field School | 30000 | 30000 | 25180 |
| *j* | Extension Activities | 50000 | 50000 | 43658 |
| *K* | Integrated Farming System (IFS) | 0 | 0 | 0 |
| *L* | NIFTD | 0 | 0 | 0 |
| *M* | Library | 5000 | 5000 | 5100 |
| **24.1** | **Total Recurring (A)** |  |  |  |
| **24.2** | **Non-Recurring Contingencies** | 0 | 0 | 0 |
| 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) | 0 | 0 | 0 |
| 24.2.4 | **Library** | 0 | 0 | 0 |
| **24.2** | **Total Non Recurring (B)** | **0** | **0** | **0** |
| **24.3** | **REVOLVING FUND (C)** | 0 | 0 | 0 |
| **24.4** | **GRAND TOTAL (A+B+C)** | **8922000** | **8922000** | **7235358** |

**(Figures in Rs.)**

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

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Particulars** | **BE 2016-17 Proposed (Rs.)** |
| **26.1** | **Recurring Contingencies** |  |
| 26.1.1 | **Pay & Allowances** | 90,00,000 |
| 26.1.2 | **Traveling allowances** | 2,50,000 |
| 26.1.3 | **Contingencies** |  |
| *A* | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 4,00,000 |
| *B* | POL, repair of vehicles, tractor and equipments | 4,00,000 |
| *C* | Meals/refreshment for trainees | 2,00,000 |
| *D* | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | 2,00,000 |
| *E* | Front Line Demonstration | 2,82,825 |
| *F* | On Farm Testing | 87,930 |
| *G* | NFSM (One OFT & two FLD) | 2,00,700 |
| *I* | Training of extension functionaries | 75,000 |
| *J* | Extension activities | 50,000 |
| *K* | Farmers Field School | 30,000 |
| *L* | Innovative Activity | 30,000 |
| *M* | Maintenance of building | 2,00,000 |
| *N* | Library (Purchase of Journal, Periodicals, News Paper & Magazines) | 15,000 |
| *26.1* | **TOTAL Recurring Contingencies** | **1,14,21,455** |
| **26.2** | **Non-Recurring Contingencies** |  |
| 26.2.1 | **Works**   1. Road Formation 2. Micro Irrigation systems | 12,00,000 |
| 26.2.2 | **Equipments including SWTL & Furniture**   1. Farm Implements 2. Computers with Accessories 3. Generator | 12,00,000 |
| 26.2.3 | **Vehicle** (Four wheeler) - **Jeep** | 10,00,000 |
| 26.2.4 | **Library** (Purchase of assets like books & journals) | - |
| **26.2** | **TOTAL Non-Recurring Contingencies** | **34,25,000** |
| **26.3** | **REVOLVING FUND** | **-** |
| **26.4** | **GRAND TOTAL** | **1,48,46,455** |

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