###### 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 DistrictPhone: 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 065Karnataka, 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**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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 marketingImproved Sericulture practices and Village Development ConceptMillet 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 farmingDryland in horticulture, organic farming and market led extensionScientific 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,CheemachanahalliDoddakurubarahalliDevanahalli 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-1T2- JG-11T3- JAKI-9218T4-GBM-2 | UAS, B JNKVV & ICRISAT UAS, Raichur | SeedsCoriander seedsJowar seeds RhizobiumCaCl2NPVTraps and lures Spinosad (Microbial)Board+Field day | 25 kg1 kg5 kg0.5 kg0.5 kg100 ml(4+4)750 ml | 150090450502502803201300**4240** | 05 (2 ha) | 21, 2005000**26,200** | Soil fertility status (pre & post)Germination & establishmentDay to 50% flowering, % wilt incidence, pod borer incidenceYield, B:C ratio | SMS-PPSMS-SSPC-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, PropinebT2 - 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, BIIHR & IIVR | *Trichodermaharzianum*Metalaxyl+ MancozebFosetyl-AlDimethomorph+MancozebBoard + Field day | 5lt1.0 kg0.2 lt0.2 kg+1.0 kg | 2150150012501630**6530** | 05 (1.40 ha) | 32,6505000**37,650** | Soil fertility status (pre & post)% Downy mildew Late incidence, No. of Fungicide sprays, Cost of sprays, Yield, B:C ratio | SMS-PPPC-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 | GA3BoraxBoard+ Field day | 10 gm12 kg | 150180**330** | 06 (0.6 ha) | 19805000**6,980** | Soil fertility status (pre & post)Quality traits Yield traits B:C ratio | SMS-SSPC (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 bagsFeeding bucketsBoard+ Field day | 11 | 500250**750** | 10 animals | 75005000**12,500** | Milk yieldSNFFat %B:C Ratio | SMS-ASHort (PC) |
| 7.5 | Jack fruit | Poor storage due to perishable natureUnhygienic dryingLow 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 materialIngredientsMicrobial analysisBoard+ Field day | - | 100020003000**6000** | 1 at KVK | 60005000**11,000** | Jackfruit Dry yieldDrying periodEconomicsKeeping quality (days)Acceptability Microbial load | SMS-HSHort (PC)SMS-AE |
| 7.6 | Mushroom | Non availability of paddy straw High cost of substrateHigh cost of Ragi strawFood & 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 coversSpawnSprayerBoard+ Field day | - | 20001200500**3700** | 4 | 148005000**19,800** | Suitability of substrate YieldBiological efficiencyCost of productionLabour | SMS-AESMS-HSHort (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 | SeedsAzospirillumBoard+Field day | 10 kg0.5 kg | 35045**395** | 30 (12 ha) | 118505000**16,850** | Soil fertility status (pre & post), Germination& establishment, No. of effective tillers/plant, yield , B:C ratio | SMS – AESMS-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 kg0.5kg | -451080**1,125** | 5 (1 ha) | 56255000**10,625** | Yield parametersConsumer 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 | SeedsJowarPSBRhizobiumCacl2Pheromon trapsNPVSpinosad (0.25 ml/L)Propargite (1.0 ml/L)Pulse magicBoard + Field Day | 6 kg5 kg0.5 kg0.5 kg0.5 kg4 Nos0.2 ltr75 ml0.5 ltr1.0 kg | 57045045452503205601300 600800**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-SSSMS-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 SeedsCacl2JowarRhizobiumNPV (1.0 ml/LTraps & luresSpinosad (0.25 ml/L)Board + Field Day | 1kg25 kg0.5 kg5 kg0.5kg200m4+475 ml  | 901500250450505603201300**4,520** | 20(8 ha) | 904005000**95,400** | Soil fertility status (pre & post) Pod borer incidence (%)Wilt incidence (%)Yield, B:C ratio | SMS-PPSMS-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 maizeYellow sticky TrapsImidacloprid (0.5 ml/LThiomethoxam (0.3g/L)Propiconazole (1.0 ml/L)Thiophanate methyl (1.0 g/L)Oxydemeton methyl (2.0 ml/L)Board+Field day  | 2 kg40.5 lt 100 g250 ml0.5 kg0.5 lt | FC2401000550475750FC**3,015** | 5(1 ha) | 150755000**20,075** | Soil fertility status (pre & post) % pest incidence % disease incidence Yield, B:C ratio | SMS-PPSMS – SSPC-Hort |
|  |  | Tomato | > 27% incidence of ToLCV, Bacterial wilt, Early blight, Late blight, leaf miner & fruit borer  | Integrated Management of Major Pests and Diseases  | Hybrid | ArkaRakshak | IIHR & UAS (B) | ArkaRakshak seedsTrichodermaharzianumPseudomonas fluorescensYellow sticky trapsPheramone traps +luresNPV (1.0 ml/L)Dimethomorph (1.0 g/L)Mancozeb (2.0 g/L)Board+ Field day  | 10 g5 kg5 kg104+4100 ml0.2 kg1 kg | 300100011502403402801250380**4,940** | 05(1 ha) | 24,7005000**29,700** | Soil fertility status (pre & post) % pest incidence % disease incidence Yield, B:C ratio | SMS-PPPC-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 & SealerFruit fly traps+luresImidacloprid (0.5 ml/L)Lambda cylothrin (0.5 ml/LDichlorovosThiophanate methyl (1.0 g/L)Dinocap (2.0 ml/L)Board + Field Day | 1 kg5+5 Nos0.5 lt0.5 lt0.5 lt500g500ml | 1504751000550FC750800**3,725** | 05(1 ha) | **18625**5000**23,625** | Soil fertility status (pre & post), % Pest & disease incidence, yield,B:C Ratio  | SMS-PPPC-HortSMS-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 kg9 kg | 600900**1,500** | 5 (1 ha) | 75005000**12,500** | Soil fertility status (pre & post)% fruit dropFruit qualityYield & B:C ratio | SMS-SSPC-Hort |
|  |  | Guava | BronzingPoor quality fruits15% yield reduction Soils deficient in (Zn ) | Management of Bronzing in Guava | Variety | Allahabad safed | IIHR-2013 | ZnSo4DAPBoard + Field Day | 4 kg2 kg | 20080**280** | 10(2 ha) | 28005000**7,800** | Soil fertility status (pre & post) Yield parameterYield & B:C ratio | SMS-SSPC-HortSMS-PP |
|  |  | Capsicum | Imbalanced nutritionWilt incidence (> 20%)Thrips& mites infestation Reduction in yield (20%) | Integrated Crop Management in Capsicum | - | - | IIHR | Vegetable SpecialArkaActino plus Sticky traps PropargiteFipronilBoard + Field Day | 3 kg3 kg0.3 lt1.5 lt | 45024050250300**1,290** | 5 (1 ha) | 64505000**11,450** | Soil fertility status (pre & post) Microbial load in soil % wilt incidenceQuality parametersYield parametersYield and B:C ratio | Hort (PC)SMS-SS,PP |
| 9.7 | Livestock | Dairy animals | Lower milk yieldLower milk quality (fat %, SNF)Incidence of Ruminalacidosis | Ration Balancing through Integrated Approach  | - | - | NIANP KVAFSU | Silpaulin sheetSilage bags/drumsFeed chartBoard + Field Day | - | 50050020**1,020** | 10 animals | 102005000**15,200** | Milk yield, Milk fat % Milk SNF | SMS-AS, SS |
|  |  | Dairy animals | Lower milk yieldFibrosis of the udderLower milk quality  | Integrated Management of Mastitis  | - | - | KVAFSU | CMT kitsPovidone iodine liquidCobactin, EnrofloxacinMelanex inj.Vitamin ADE3 injectionBoard + Field Day | - | 500400800400**2,100** | 10 animals | 210005000**26,000** | Milk yield, Incidence of Mastitis, B:C Ratio | SMS-AS, AE |
|  |  | Dairy animals | Lice, ticks and fleas infestationAnemiaLower milk yield | Integrated Management of Endo and Ecto parasites  | - | - | KVAFSU | Flumethrin liquidIvermectin injectionButox sprayBoard + Field Day | - | 500500400**1,400** | 10 animals | 140005000**19,000** | Incidence of Ectoparasitic infestationHemoglobinRBC countTLC 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 seedsLucerneM.dubia seedlingBoard+ Field day | 1.0 kg3 kg5 Nos. | 10001500200**2,700** | **10****(1 ha)** | **27000****5000****32,000** | Soil fertility status (pre & Post)Plant heightYield t/cutQuantity of fodder left overMilk yield | SMS-PPSMS-AS |
|  |  | Nutrition garden | Nutrition insecurityNon availability / High cost of vegetablesUnhygienic methods of handling foodsLack of knowledge on nutrition | Improvement of Health and Knowledge status among School Children through Nutrition Garden | - | - | IIHR | Vegetable seed kits Fruit and vegetable seedlingsVermi compost (Community contribution)Vegetable specialNeem oil Neem cake TrichodermaVeg preservator Hb test Board+ Field day | 4500 ml20 kg1 kg110 samples | 2402500-15066070015030001000**8,400** | **4** | 336005000**38,600** | Bio chemical (Hb) AnthropometricDietary informationClinical symptomsKAP 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** | 144005000**19,400** | Cost economicsCompost yieldQuantificationEconomicsSavings | 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 sizeReduced 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 flyPowdery 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 sizePoor 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 dryingLow income during glut | OFT | Production of jackfruit products using solar Drying technique | 1 | 25 | SMS-HS, SS, PP, Hort (PC), AE |
|  |  | Nutrition garden | Nutrition insecurityMalnourishment 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.ExtnSMS-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.ExtnSMS-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. ExtensionSMS-Home SciencePC-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. ExtensionSMS-Animal SciencePC-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. ExtensionSMS-Home SciencePC-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) | StudentsFarmers/ farmwomen, etc | 300 | Karnataka State Biofuel Development Board (KSBDB) | PCAll SMSsI&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 STVTesting the quality of irrigation water  | 1200 Nos.800 Nos. | SMS(SS&AC) and Training AssistantSMS(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** |

**-------XXXXXXX-------**