###### 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, Tubagere Hobli, Doddaballapura Taluk Bengaluru 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, Bengaluru – 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 28-2-2017 |

**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  | Dr M Padmanabhan | Agronomy | 36000 | - | 03.01.2017 | Temporary |
| 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 | Mrs. M.K.Meenakshi | Assistant | 16000-29600 | - | 03.07.2013 | Permanent |
| 2.12 | Stenographer | Mrs.S.Rukmini | Steno | 14550 | - | 20.01.2017 | 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 | - | 04.01.2017 | 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 2016-17**

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| **S.****No** | **Date** | **Major recommendations** | **Status of action taken in brief** | **Tentative date of SAC meeting proposed during 2017-18** |
| 3.1 | **7.11.2016** | Conduct demonstrations of new varieties and new technologies released immediately in KVK demonstration fields | Demonstrations of new varieties like ML 365 in finger millet, BRG 5 in Pigeon pea were conducted in KVK demonstration fields | November, 2017 |
| Conduct the collaborative programmes with Dept. of Agriculture on mechanization in finger millet and conduct survey on adoptability of mechanization in finger millet. | Collaborative programmes on mechanization in finger millet were demonstrated in collaboration with Dept. of Agriculture Conduct. A survey on adoptability of mechanization in finger millet will be undertaken in April, 2017. |
| In OFTs and FLDs, where study on varieties is involved, the results should compare the productive potential of the varieties and assess the yield gaps in district. | In OFTs and FLDs, where study on varieties is involved, the results are being compared with the productive potential of the varieties and the yield gaps in district are being assessed. |
| Arrange for campaigns in collaboration with Dept. of Agriculture to highlight the importance of seeds retention for three years in field crops. | Rabi campaign and other field programmes were used to highlight the importance of seeds retention in field crops. |
| Analyse the micronutrients status in soils for all OFT and FLD and few samples across the district based on topo sequence. | The micronutrients status in soils for all OFT and FLD and few samples across the district based on topo sequence will be analysed in 2017-18. |
| Provide precision farming technology to farmers growing crops in polyhouse to double the yield and income in collaboration with Dept. of Horticulture. | Visit to farms which practice Precision farming technology were arranged to the farmers as part of exposure visits during training programmes. |
| Initiate the steps for value addition in rose, whenever market problem occurs. | The variety of rose which is used for value addition is not grown in Bengaluru Rural district |
| Explore the practices to retain the colour in solar dried jack.  | The practices to retain the colour in solar dried jack are being explored in consultation with Post Harvest Technology department of UAS, Bengaluru |
| Arrange training Programmes for fish seed rearing in collaboration with Dept. of Fisheries. | Training programmes for fish seed rearing will be arranged in collaboration with Dept. of Fisheries in June, 2017 |
| Arrange for campaigns in collaboration with Dept. of Animal Husbandry to control the problem of Brucellosis in farm animals.  | The Dept. of Animal Husbandry personnel were consulted and campaigns will be organized in collaboration with to control the problem of Brucellosis in farm animals.  |
| Conduct impact analysis of KVK activities for having existing in the district for the last one decade. | Impact analysis of KVK activities for having existing in the district for the last one decade will be conducted in May, 2017. |
| Discussions about importance of moisture conservation must be arranged in every training programme, demonstrate water conservation through soak pits in 1-2 schools per taluk in collaboration with local bank managers and conduct survey on impact of training programmes, percent of adoption and increase in yield. | Discussions about importance of moisture conservation are being arranged in every training programme. Demonstrations on water conservation through soak pits in 1-2 schools per taluk in collaboration with local bank managers will be carried out in June, 2017. The survey on impact of training programmes, percent of adoption and increase in yield is be conducted regularly after the training programmes are conducted. |
| Conduct a survey about demand and consumption pattern of mushroom in Bengaluru Rural district. | A survey about demand and consumption pattern of mushroom in Bengaluru Rural district will be conducted in May, 2017. |
| Explore the possibilities of linking ARYA project to Department of Small Scale Industries and Commerce. | The Department of Small Scale Industries and Commerce has been consulted and the possibilities of linking ARYA project are being explored.  |
| The activities of the KVK should be distributed throughout the geographical area of the district. | The activities of the KVK are distributed throughout the geographical area of the district. |
| Practice organic farming practices and use solar energy in the KVK farm, wherever possible. | Organic farming practices are being adopted in few plots of KVK farm and use of solar energy will be explored. |

**4. Capacity Building of KVK Staff**

**4.1 Plan of Human Resource Development of KVK personnel during 2017-18**

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| --- | --- | --- | --- |
| **S. No** | **New Areas of Training** | **Institution proposed to attend** | **Justification** |
| 4.1.1 | Climate resilient and Agriculture | CRIDA, Hyderabad | Knowledge on weather aberrations and real time contingent planning  |
| 4.1.2 | Integrated Farming System | TNAU, Coimbatore | Integration of farming systems in Rainfed, Wetland and upland agriculture |
| 4.1.3 | Hi-tech Horticulture | IIHR / MANAGE | The district has been covered more of Horticultural crops specially hi-tech horticulture |
| 4.1.4 | Nutrient management / cropping systems  | IARI, New Delhi | Crop planning and integrated farming system aspects helps to raise the farm income  |
| 4.1.5 | Characterization and mapping of soils using GIS  | NBSS & LUP, Bangalore | Soil fertility mapping for different cropping system |
| 4.1.6 | Value Addition | CFTRI, Mysore | To introduce new technologies for farmwomen to raise their income levels |
| 4.1.7 | Health and Nutrition  | ANGRU, Hyderabad | Upliftment of health and nutritional status among farm families |
| 4.1.8 | Mushroom cultivation | IIHR, Bangalore | Scientific methods of mushroom cultivation and spawn production techniques |
| 4.1.9 | Bio agents | NIPHM, Hyderabad | Production protocol for bio agents and analysis of microbial bio-pesticides  |
| 4.1.10 | Phytopathogens | IIHR, Hesarghatta | Genomics and diagnosis of emerging phytopathogens in Horticulture crops |
| 4.1.11 | Dairy nutrition | NAINP, Bangalore | To update the knowledge on the latest technology and disseminate the appropriate technology to the farming community  |
| 4.1.12 | Poultry production | Namakkal, Tamilnadu | Problem of backyard poultry for Integrated farming System |
| 4.1.13 | Photoshop, CorelDraw and Animation  | NIIT / APTECH / KEONICS | Development and conducting the programmes in a befitting manner  |
| 4.1.14 | Farm Mechanization | UAS, Bangalore | Reduce the labour and to carry out the farm activity by timely usage of farm machineries  |

**4.2. Cross-learning across KVKs during 2017-18**

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| **S. No** | **Name of the KVK proposed**  | **Specific learning areas** |
| **4.2.1** | **Within ring –**1. KVK, Tumkur
2. KVK, Chikkaballapura
3. KVK, Ramanagara
 | Bio-products, Quality seeds and planting materials. Nutrient mixture, Exposure visits & farmers interaction Climate Resilient Agriculture practices and Concept of Village Development - Exposure visits Exposure visits, farmers interaction  |
| **4.2.2** | **Within the zone –** a) KVK, Pattanamthitta, Kerala b) KVK, Kannur, Keralac) KVK, Namakkal, Tamil Nadu | Resource conservation technologies, Processing and value addition, market linkages. Exposure visits, farmers & Scientists interactionTechnician groups, value addition, market linkages. Exposure visits, farmers & Scientists interactionAnimal related Demonstration units, Exposure visits, farmers interaction |
| **4.2.3** | **Outside zone –**1. KVK, Baramati, Maharashtra
2. KVK, Mehsana, Ahmedabad
3. KVK, Ahmednagar, Maharashtra
 | Modern farm technologies and method demonstrationsRain Harvesting TechnologyFunctioning of Community Radio Station  |

**5. Proposed cluster of KVKs (3 to 5 neighboring KVKs) to be formed for sharing knowledge/expertise, resources and activities during 2014-15**

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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, Tumkur | Improved Horticulture, Commodity Groups and Market Linkages, Quality Seeds and Planting Materials | Quality seeds and planting materials. Nutrient mixture, Exposure visits, farmers interaction |
| 5.2 | KVK, Chikkaballapura | Human resources, Exposure visits, farmers interaction |
| 5.3 | KVK, Ramanagara | Improved Sericulture practices and village development concept, Exposure visits, farmers interaction |

**6. Operational areas details proposed during 2017-18**

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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, bengal gramVegetables- potato, tomato, beans, cabbage, cauliflower, Knolkhol, carrot, chilli, pole beanFruit crops - grapes, mango, jackPlantation crops - ArecanutFlower crops – rose, gerbera, carnationAnimal husbandry- cows, buffaloes, sheep, goat and backyard poultryOthers - sericulture | * 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, bio pesticides, biofertilizers and scientific composting techniques
* Wilt incidence, higher flower drop, imbalanced nutrition in cucumber
* Nutrition insecurity, Malnourishment in children , Non availability & high cost of vegetables
* Lack of knowledge on market information channels
* Less acceptability of value added products from existing varieties of finger millet due to brown colour
* Intermittent drought, low yield, less income by selling the grains without processing
* Low milk production, decreased reproductive efficiency after calving, inefficient reproductive management practices, green fodder scarcity
* Lower meat yield in sheep due to imbalanced nutrition
 | * 75 per cent farmers have not got soil tested
* More than 70 per cent borewells are dried up
* About 75 per cent of the famers growing irrigated crops are indiscriminately using plant protection chemicals
* > 40% blast incidence in finger millet
* >40% diamond back moth infestation in cabbage
* >30% Downy mildew and stem borer incidence in maize
* 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
* 60 per cent famers are not managing the dairy scientifically
 | Rameshwara, Chunchegowdanahosahalli, Hadripura, Maduranahaosahalli-**Doddabelavangala Hobli** –**Doddaballapura taluk** | OFT, FLD, Training for farmers and Extension functionaries & other extension activities |
| 6.2 | Cereals- finger millet, maize Pulses- redgram, bengal gram, field beanVegetables- ginger, cabbage, tomato, cucumber, cauliflower, pole beans, carrotFruit 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 knowledge on improved varieties/hybrids in horticultural crops
* Low yield due to local varieties in ginger, susceptible to soft rot
* Intermittent drought and blast incidence in finger millet
* Lack of knowledge on integrated pest & disease management
* Imbalanced and insufficient use of fertilizers in field and horticultural crops
* Micronutrient deficiency, yellowing of leaves, YMV, Rust, root rot, Leaf miner, mites in pole beans
* Marketing of high value fruit crops is not channelized
* Intermittent drought, low yield, less income by selling the grains without processing
* Low milk production, decreased reproductive efficiency after calving, inefficient reproductive management practices, green fodder scarcity
* Lower meat yield in sheep due to imbalanced nutrition
 | * About 65 per cent of the famers are indiscriminately using plant protection chemicals (traders recommendation)
* 70 percent farmers are not following balanced plant nutrition
* >70% of the farmers are using local varieties in ginger
* 65% of farmers does not have awareness about ICM practices in Pole beans
* 20% area of beetroot cultivation is affected by malformation and variation in root size and splitting problem.
* Lack of knowledge on market information channels
 | Bannimangala, Sunnaghatta Bachahalli **-Devanahalli taluk** | OFT, FLD, Training for farmers and Extension functionaries & other extension activities  |
| 6.3 | Cereals- finger millet, maize Pulses- Field bean, redgram, Vegetables- Tomato, Potato, Cucumber, coriander, carrot, chilli, potato, tomatoFruit crops - mango, grapes Animal husbandry- cows, buffaloes, sheep, goat and backyard poultry Fodder crops- African tall, Napier grass | * Severe incidence of downy mildew in cucumber
* Indiscriminate use of water soluble fertilizer due to lack of recommended schedule, incidence of ToLCV, Fusarium wilt, Early blight, Late blight, leaf miner in tomato
* Severe infestation of light blight in potato
* 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
* Lower peak milk production, decreased reproductive efficiency after calving, inefficient reproductive management practices
* Lower meat yield due to imbalanced nutrition in sheep
* Nutrition insecurity & malnourishment in children , Non availability & high cost of vegetables
* Less acceptability of value added products of finger millet from existing varieties due to brown colour
 | * >33% incidence of downy mildew
* 80% of the farmers growing tomato are unaware of recommended schedules of fertigation and IPM practices
* > 40% infestation of late blight in potato
* 80 famers are growing old varieties of field bean
* 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
 | BallagereKenchanapuraTadsighatta Vadakunte**Nelamangala taluk** | OFT, FLD, Training for farmers and Extension functionaries & other extension activities |
| 6.4 | Cereals- finger millet, maize Pulses- Field bean, redgram, cowpea Vegetables- cole crops, carrot, chilli, drumstick, Potato and Ridge gourd Fruit crops – Banana, grapes, mango, jack, Plantation- coconut, Arecanut Animal husbandry- cows, buffaloes, sheep, goat and backyard poultry  | * No soil testing practices
* Intermittent drought and blast incidence in finger millet
* Wilt incidence, pod borer menace, dry root rot and collar rot in Bengal gram
* Improper use of fertilizers and plant protection chemicals
* Lack of knowledge on use of bio pesticide
* Lack of knowledge on seed treatment
* Lack of knowledge on scientific dairy management
* Lower peak milk production, decreased reproductive efficiency after calving, inefficient reproductive management practices
* Lower meat yield due to imbalanced nutrition in sheep
 | * 70 per cent farmers are not following soil & water conservation practices
* >65% incidence of wilt, pod borer, dry root rot and collar rot in Bengal gram
* 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
 | SonnallipuraLakkondahalli Hasigala VapasandraThimmasandra**Hoskote taluk** | OFT, FLD, Training for farmers and Extension functionaries & other extension activities |

**7. Technology Assessment during 2017-18**

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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 | Seeds | 25 kg | 1500 | 05(2 ha) | 17700 | Soil fertility status (pre & post)Germination & establishment, days to 50% flowering, % wilt incidence, pod borer incidenceYield, B:C ratio | SMS-AgroSMS-PP |
| Coriander seeds | 1 kg | 90 |
| Rhizobium | 0.5 kg | 50 |
| NPV | 100 ml | 280 |
| Traps and lures  | 4 no. | 320 |
| Spinosad (Microbial) | 75 ml | 1300 |
|  |  | **3540** |
| Board+Field day |  |  |  | 5000 |
|  |  |  |  | **22700** |
| 7.2 | Ginger | Low yielding local varieties (15-17t/ha fresh rhizome), soft rot disease causes yield loss to the extent of 25-30% Non-availability of quality planting material of improved varieties | Assessment of Ginger Varieties for Bengaluru Rural District | **FP-To1:** Var. **Rio de** **Generio** (17.65t/ha)**FP-T01 : Var. Maran (25.21t/ha)**  **To2:** Var.**Himachal**(17.27 t/ha)**To3:** Var. **Varadha**(22.6 t/ha) | IISR, Calicut | Rio de Generio  | 60 kg | FC | 03(0.3ha) | 36000 | Soil fertility status (pre & post), Soft rot incidence (%), Growth and yield parameters, Yield (t/ha), B:C ratio | PC-Hort SMS-SS SMS-PP |
| Maran | 200 kg | 12000 |
| Varada  |
| Himachal |
|  |  | **12000** |
| Board+ Field day |  |  |  | 5000 |
|  |  |  |  | **41000** |
| *Metalaxyl* | 0.1 kg | 250 |  |  |
| Metalaxyl+ Mancozeb | 0.5 kg | 800 |
| Dimethomorph+Mancozeb | 0.2 kg+1.0 kg | 1630 |
|  |  | **4680** |
| Board + Field day |  |  |  | 5000 |
|  |  |  |  | **28400** |
| 7.3 | Cabbage | DBM (>42%) infestation | Assessment on Management of Diamond backmoth in cabbage | T1 -Intecropping with Mustard (25:2), Spray the crop with Dichlorvos (0.05%) and 5% NSKE – UAS (B)T2 - Intercropping with Mustard (trap crop), Installation of light traps, Spraying of Neem Soap (10g/l), Spraying of Novaluron (0.075%) or Indocarb (0.05%) – IIHR, BengaluruT3 - Intercropping with Mustard (trap crop) (25:2), Installation of WOTA-T traps (DBM traps), Use of Sticky traps, Spray of Bt (1g/l), Neem Soap (5g/l), Entomopathogenic fungi (Beauveria bassiana) (0.2%),Emamectin benzoate 5SG (0.05%), Chlorfenapyr 10SC (0.1%), Spinosad 2.5SC (0.15)%, - IIVR, Varanasi | UAS (B)IIHRIIVR, Varanasi | Mustard seeds  | ½ kg | 150 | 05(1.0 ha) | 33400 | Soil fertility status (pre & post)DBM incidence (%), No. & cost of sprays, Yield, B:C ratio | SMS-PPPC (Hort) |
|  DBM Traps  | 8 No. | 820 |
| Sticky traps  | 10 No. | 560 |
| Neem soap  | 2 kg | 325 |
| Pongamia soap | 2 kg | 325 |
| Bt | 600 g | 2100 |
| *Beauveria*  | 0.5 lt | 650 |
| Spinosad  | 50 ml | 950 |
| Chlorfenapyr | 0.3 lt | 800 |
|  |  | **6680** |
| Board+ Field day |  |  |  | 5000 |
|  |  |  | **38400** |
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## 8. Technology Refinement during 2017-18 - 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**  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

**9. Frontline Demonstrations during 2017-18**

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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 | Maize | Downy mildew incidence (>38%)Stem borer incidence (23%) | Management of Downy mildew and Stem Borer in Maize | Pvt. Hybrid | Dekalb 900 M | UAS (B) | Metalaxyl+Mancozeb  | 100g | 300 | 10(2 ha) | 14000 | Soil fertility status (pre & post)% Stem borer & DM incidenceYieldB:C ratio | SMS - PP, Hort (PC), SS |
| Carbofuran  | 10 kg | 1100 |
|  |  | **1400** |
| Board+Field day |  |  |  | 5000 |
|  |  |  |  | **19000** |
| 9.2 | Millets | Finger millet | Intermittent drought and blast incidence | Addressing drought and blast vulnerability using Finger millet var. ML 365/ ML 322 | Variety | ML-365 | UAS(B) 2012 | Seeds | 5 kg | 350 | 25(10 ha) | 10000 | Soil fertility status (pre & post), Germination & establishment, No. of effective tillers/plant, yield , B:C ratio | SMS-AgSMS-PP |
| Azospirillum | 0.5 kg | 50 |
|  |  | **400** |
| Board+Field day |  |  | 5000 |
|  |  |  | **15000** |
|  | Millets | Finger millet | Less acceptability of value added products from existing varieties due to brown color  | Demonstration and Value Addition of Finger millet Variety KMR 340  | Variety | KMR 340 | UAS (B) | Seeds  (KMR-340)  | 25 kg | 875 | 2 SHGs (4 ha)(10 members) | 18250 | Yield parametersCost economics & Keeping quality (days)Consumer Acceptability & Market linkage | SMS – HS, PC-Hort&All SMS |
|  Azospirillum | 2.5kg | 250 |
| Packing material | - | 2000 |
| Labelling material | - | 6000 |
|  |  | **9125** |
| Board+Field day |  |  | 5000 |
|  |  |  | **23250** |
|  | Millets | Foxtail millet | Intermittent drought, low yield, less income by selling the grains without processing | Demonstration and Value Addition of Foxtail millet Var. DHFT-109-3  | Variety | DHFT-109-3 | UAS (D) | Seeds  | 4 kg | 875 | 10(4 demo) | 10600 | Yield parametersCost economics & Keeping quality (days)Consumer Acceptability & Market linkage | SMS – HS, PC-Hort&All SMS |
|  Azospirillum | 200 g | 30 |
| PSB | 200 g | 30 |
| Packing material | - | 200 |
| Labelling material | - | 600 |
|  |  | **1060** |
| Board+Field day |  |  | 5000 |
|  |  |  | **15600** |
| 9.3  | Oilseeds | - | - | - | - | - | - | - | - | - | - | **-** | - | - |
| 9.4 | Pulses | Redgram**NFSM** | -Wilt incidence(30%)- Sterility mosaic disease (35 %)Imbalanced nutrition | Demonstration of BRG 5/ BRG 3 to augment wilt and SMD (**NFSM**)  | Variety | BRG-5 | UAS(B) 2013 | Seeds | 6 kg | 700 | 25(10 ha) | 65500 | -Soil fertility status (pre & post), incidence of wilt, sterility mosaic disease, yield, B:C ratio | SMS-AgSMS-PP |
| Rhizobium | 0.5 kg | 50 |
| Pulse magic | 2 kg | 600 |
| Pheromonetraps+lures | 4 Nos(4+4) | 320 |
| Profenophos | 500 ml | FC |
| Spinosad  | 50 ml/lit | 950 |
|  |  | **2620** |
| Board + Field Day |  |  | 5000 |
|  |  |  | **70500** |
|  |  | Bengal gram**NFSM** | -Wilt incidence (> 20%)-Pod borer menace(> 38%)-Dry root rot and collar rot (>17%) | Integrated crop management in BengalgramVar.JG 11/ JAKI 9218 (**NFSM**) | Variety | JG 11/JAKI 9218 | UAS (B)2013 | Seeds | 20 kg | 2360 | 25(10 ha) | 68250 | Soil fertility status (pre & post) Pod borer incidence (%)Wilt incidence (%), Dry root rot and collar rot (%),Yield, B:C ratio | SMS-AgSMS-PP |
| Coriander seeds  | 1 kg | FC |
| Rhizobium | 0.5kg | 50 |
| Traps & lures | 4 no.4+4 | 320 |
| Spinosad (microbial) | 50 ml/l | FC |
|  |  | **2730** |
| Board + Field Day |  |  | 5000 |
|  |  |  | **73250** |
| 9.5 | Commercial crops | Mulberry | Low quality leaf - Imbalanced nutritionExisting NPKS status – 119(L):35(M):123(L):6.2(L) | Nutrient Management in Mulberry | - | - | CSR&TI Mysore | Sulphate of potash | 11 kg | 860 | 5(1 ha) | 13200 | Growth parameters plant height at 40th dayYield parameters – leaf yield at 40th dayCocoon yield/100 dfl, B:C ratio | SMS – SS, PP, FM |
| Mono ammonium phosphate) | 9 kg | 900 |
| Urea | 28 kg | FC |
| Seriboost @ 2ml/lt  | 500 ml | 880 |
|  |  | **2640** |
| Board+Field day |  |  | 5000 |
|  |  |  | **18200** |
| 9.6 | Horticultural crops | Cucumber | 30-35% yield reduction due to imbalanced nutrition and flower dropExisting NPKB 154(L):42(M):98(L):0.15(L)Wilt incidence (25%) | Yield and quality enhancement in cucumber for higher returns | Hybrid | Chithra | IIHR, Bengaluru  | Boric acid | 100 g | 140 | 5(1 ha) | 3575 | Soil fertility status (pre & post), No of flowers per vine, Percent flower drop, Length of the fruit (cm), Percent wilt incidence, B:C ratio  | SMS-SSPC-Hort |
| Salicylic acid | 100 g | 200 |
| AMC | 3 kg | 375 |
|  |  | **715** |
| Board + Field Day |  |  | 5000 |
|  |  |  | **8575** |
|  |  | Tomato | Lower yield due to indiscriminate use of Water Soluble Fertilizers and lack of recommended scheduleExisting NPK 143(L):28(M):117(L) | Fertigation in tomato for enhanced yields | Hybrid | NS 501 | IIHR | 19:19:19  | 76 kg | FC | 5(1ha) | 12250 | Soil fertility status (pre & post), Plant height (cm), No of fruits /plant, Weight of the fruit (kg), Yield (t/ha), B:atio  | SMS-SSPC-HortSMS-PP |
| KNO3  | 21 kg | 2450 |
| Calcium Nitrate | 33 kg | FC |
|  |  | **2450** |
| Board + Field Day |  |  | 5000 |
|  |  |  | **17250** |
|  |  | Tomato | Incidence of ToLCV, Fusarium wilt, Early blight, Late blight, leaf miner (> 38%) | Integrated Management of Major Pests and Diseases in Tomato | Pvt. Hybrid | NS 501 | UAS (B) | Trichoderma  | 5 kg | 1000 | 05(1 ha) | 24200 | Soil fertility status (pre & post) % pest incidence % disease incidence Yield, B:C ratio | SMS-PPPC-Hort |
| Pseudomonas | 5 kg | 1150 |
| WOTA- T traps +lures | 4+4 | 500 |
| Sticky traps | 10 | 560 |
| Dimethomorph (1.0 g/L) | 0.2 kg | 1250 |
| Mancozeb (2.0 g/L) | 1.0 kg | 380 |
|  |  | **4840** |
| Board+ Field day |  |  | **5000** |
|  |  |  | **29200** |
|  |  | Potato  | Severity of late blight disease (>40% )  | Management of Late Blight in Potato through Integrated Approach | Variety | Kufri Jyothi | UAS (B)  | *Trichoderma*  | 5 kg | 1000 | 5(1 ha) | 24900 | Soil fertility status (pre & post)% Late blight incidenceYieldB:C ratio | SMS – PP, Hort (PC), SS |
| *Pseudomonas*  | 5 kg | 1150 |
| Fenamidone + Mancozeb | 600 g | FC |
| Dimethomorph+ Mancozeb | 0.2 kg+ 1.0 kg | 1630 |
| Iprovalicarb + Propineb | 0.6 kg | 1200 |
|  |  | **4980** |
| Board+Field day |  |  | 5000 |
|  |  |  | **29900** |
| 9.7 | Livestock | Dairy animals | Lower peak milk production & persistency of lactationDecreased reproductive efficiency after calving such as delayed onset of oestrus and oestrus demonstration symptoms Increased calving accidents such as dystocia, septic metritis and increased incidence of metabolic disorders such as ruminal acidosis, ketosis & milk fever | Bypass fat as an energy source during the transition phase in dairy animals | - | - | NDDB & NIANP | Bypass fat supplement @ 150 g/animal/day or 15 g/lt of milk production | 6 kg | 1200 | 20 animals | 32400 | Milk yieldOnset of heat (Oestrus)Post calvingConception %No. of AI for conceptionBody weightMilk fat % & SNFIncidence of ROPSeptic metritis Metabolic acidosisMilk fever  | SMS-AS, SS |
| Chelated mineral mixture @ 50 g/animal/day | 2.1 kg | 420 |
|  |  | **1620** |
| Field Day |  |  | 3000 |
|  |  |  | **35400** |
|  |  |  |  |
|  |  | Dairy animals | Delayed onset of oestrusAnoestrusJuvenile genitaliaSmooth ovaries | Integrated approach for the Reproductive management of Anoestrus in Heifers | - | - | KVAFSU | Albendazole bolus | 2 No. | 100C ratio | 40 animals | 16000 | Onset of oestrus, No of AI /conception, Conception rate | SMS-AS, HS, PC |
| Chelated minerals (trace minerals ) | 1.5 kg | 300 |
|  |  | **400** |
| Field Day |  |  | 4000 |
|  |  |  | **20000** |
|  |  | Dairy animals | Incidence of post parturient milk feverLower milk yieldDelayed onset of oestrus | Management of Milk Fever (Post Parturient Hypocalcimea)  | - | - | NDDB & NIANP | Fenbendazole  | 1.5 g bolus/cow | 1280 | 20 animals | 13280 | % disease incidence, Milk yield, Post partum onset of oestrus  | SMS-AS, AE |
| Syrup of Ca, Mg boroglucanate  |  | 12000 |
|  |  | **13280** |
| Field Day |  |  | 4000 |
|  |  |  | **17280** |
|  |  | Sheep | Lower meat yield due to imbalanced nutrition and incidence of bacterial and viral diseases (FMD, HS, ET, PPR, BT) | Integrated nutritional and disease management in sheep | - | - | NDDB & NIANP | Slow Release Nitrogen Product (Polymer coated urea) @ 2% added in concentrate/maize powder – 108 kg@120/kg (6 g/sheep/day) | 2.7 kg | 648 | 40 animals | 18514 | Body weightDisease incidence of ecto and endoparasitesBC ratio | SMS-AS, PP |
| Sprayer (5 lt) | 1 No. | 106 |
| Ivermectin injection 100ml vial – 2 No. | 20 ml | 60 |
| Mineral mixture @ 10 g/sheep/day | 1.5 kg | 300 |
| Zinc, copper and cobalt mixture | 1.5 kg | 1200 |
|  |  | **2314** |
| Field Day |  |  | 4000 |
|  |  |  | **22514** |
| 9.8 | Fisheries |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9.9 | Others | Nutrition garden | Nutrition insecurityNon availability / High cost of vegetablesUnhygienic methods of handling foodsNon utilization of existing bio-massLack of knowledge on nutrition | Nutrition Garden in schools | - | - | IIHR | Vegetable seed kits  | 4 | 500 | 4 schools | 22000 | Production of vegetables (Yield)Production of compost Health status | SMS-HS, PC, All SMS |
| Fruit and vegetable seedlings | 50 | 2500 |
| Vermi compost (Community contribution) | - | - |
| Vegetable special | 1 kg | 150 |
| Neem oil  | 500 ml | 500 |
| Neem cake  | 20 kg | 700 |
| Trichoderma | 1 kg | 150 |
| Decomposer | 10 kg | 1000 |
|  |  | **5500** |
| Board+ Field day |  |  | 5000 |
|  |  | 5500 | **27000** |

**10 Training for Farmers/ Farm Women during 2017-18**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | Addressing drought and blast vulnerability using Finger millet var. ML 365/ML 322 | 2 | 50 | SMS-Agro, PP |
|  |  | Redgram | Wilt incidence, Sterility mosaic disease, Imbalanced nutrition | FLD | Introduction of BRG 3/BRG 5 to augment wilt and sterility mosaic disease  | 2 | 50 | SMS-Agro, PP |
|  |  | Bengalgram | Wilt incidence,Pod borer menace,Dry root rot and collar rot |  FLD | Integrated crop management in Bengalgram Var. JG 11/ JAKI 9218 | 2 | 50 | SMS-Agro, PP |
|  |  | Bengal gram | Low yield due to wilt incidence, Moisture stress during crop growth period | OFT | Assessment of Bengal gram varieties for wilt and drought conditions | 2 | 50 | SMS-Agro, PP |
|  |  | Maize  | Downy mildew incidence (>38%)Stem borer incidence (23%)  | FLD | Management of Downy mildew and Stem Borer in Maize | 2 | 50 | SMS-SSPC-Horticulture |
| **10.2** | Horticulture production | Ginger | Low yield of existing varieties, soft rot incidence (25-30%) | OFT | Role of major nutrients in ginger nutrition, Method demonstration on use of ginger special (micronutrient mixture) as foliar spray | 2 | 50 | SMS- PP, Hort (PC) |
| **10.3** | Livestock Production  | Dairy animals | Lower peak milk production & persistency of lactationDecreased reproductive efficiency after calving such as delayed onset of oestrus and oestrus demonstration symptoms, Increased calving accidents such as dystocia, septic metritis and increased incidence of metabolic disorders such as ruminal acidosis, ketosis & milk fever | FLD | Bypass fat as an energy source during the transition phase in dairy animals | 2 | 50 | SMS-SS, Hort (PC) |
|  |  | Dairy animals  | Delayed onset of oestrusAnoestrusJuvenile genitaliaSmooth ovaries | FLD | Reproductive management of dairy heifers | 2 | 50 | SMS-PP, Hort (PC) |
|  |  | Sheep | Lower meat yield due to imbalanced nutrition and incidence of bacterial and viral diseases (FMD, HS, ET, PPR, BT) | FLD | Integrated nutritional and disease management in sheep | 2 | 50 | SMS-AE, Hort (PC) |
|  |  | Dairy animals | Incidence of post parturient milk feverLower milk yieldDelayed onset of oestrus | FLD | Management of Milk Fever (Post Parturient Hypocalcimea) | 2 | 50 | SMS- SS, Hort (PC) |
| **10.4** | Home Science  | Kitchen waste management | Lack of knowledge on kitchen waste management | Need based | Household Kitchen waste management | 2 | 50 | SMS-HS, Hort (PC) , All SMS  |
| **10.5** | Plant Protection | Cucumber | Severe incidence of Downy mildew (> 33%) | OFT | IDM in Cucumber | 2 | 50 | SMS-PP, Hort (PC) |
|  |  | Cabbage | DBM (>42%) infestation | OFT | IPM in Cabbage | 2 | 50 | SMS-PP, Hort (PC) |
|  |  | Potato | Severity of late blight disease (>40% )  | FLD | IDM in Potato | 2 | 50 | SMS-PP, SS, Hort (PC) |
|  |  | Tomato | Incidence of ToLCV, Fusarium wilt, Early blight, Late blight, leaf miner (> 38%) | FLD | Monitoring pests & disease surveillance in Tomato | 2 | 50 | SMS – PP, Hort (PC) |
|  |  | Pole beans | Indiscriminate use of pesticides, non-adoption of integrated crop management practices  | FFS | IPM in Pole beans  | 2 | 50 | 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 | 2 | 50 | SMS-PP, SS, Hort (PC) |
| **10.7** | Soil Health and Fertility  | Cucumber | 10-12% yield reduction due to imbalanced nutrition and flower dropExisting NPKB – 154(L):42(M):98(L):0.15(L)Wilt incidence (15%) | FLD | Role of major & micro nutrients in cucumber nutritionImportance of Arka microbial consortium in managing wilt incidence | 2 | 50 | SMS- PP, Hort (PC) |
|  |  | Tomato | Lower yield due to indiscriminate use of Water Soluble Fertilizers and lack of recommended scheduleExisting NPK – 143(L):28(M):117(L) | FLD | Role of major & micro nutrients in production of tomato Advantage of using water soluble (WSF) over conventional fertilizer  | 2 | 50 | SMS- 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 | Demonstration and Value addition of Finger millet variety KMR 340  | 2 | 50 | SMS-HS, SS, PP, Hort (PC), AG |
|  |  | Jack fruit | Lack of knowledge on value additionLow income during glut | Need based | Jackfruit value addition | 2 | 50 | SMS-HS, SS, PP, Hort (PC), AE |
|  |  | Nutrition garden | Nutrition insecurityMalnourishment in children | FLD | Importance of fruits & vegetable for good health among school children | 2 | 50 | SMS-HS,, Hort (PC), All SMS |
|  |  | Foxtail millet | Low yield, less income by selling the grains without processing  | FLD | Demonstration and Value addition of Foxtail millet variety DHFT-109-3 | 2 | 50 | SMS-HS, SS, PP, Hort (PC), AG |
|  |  | Minor millets | Lack of knowledge on processing and value addition | Need based | Importance of minor millets for health benefits and demonstration of value added products | 2 | 50 | SMS-HS, SS, PP, Hort (PC), AG |
| **10.9** | Capacity Building Group Dynamics | - | Lack of awareness about Commodity Based Associations | Need based | Commodity based Associations | 2 | 50 | SMS-AE, HS, Hort (PC) |
| **10.10** | Farm Mechanization  | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **10.11** | Fisheries Production Technologies | Fisheries | Lack of knowledge on fish feed rearing | Need based | Fish seed rearing | 2 | 50 | SMS-AS, AE |
| **10.12** | Mushroom production | Mushroom | Lack of awareness about mushroom production technologies | Need based | Mushroom cultivation | 2 | 50 | SMS-AE, HS, Hort (PC) |
| **10.13** | Agro forestry |  |  |  |  |  |  |  |
| **10.14** | Bee Keeping |  |  |  |  |  |  |  |
| **10.15** | Sericulture | Mulberry  | Low quality leaf - Imbalanced nutritionExisting NPKS status – 119(L):35(M):123(L):6.2(L)  | FLD | Role of major & micro nutrients in mulberry nutritionImportance of Arka microbial consortium in soil health status  | 2 | 50 | SMS-PP, Hort (PC) |
|  | **Others, pl. specify** |  |  |  |  |  |  |  |

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

 **11. Training for Rural Youth during 2017-18**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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** |
| **11.1** | Crop Production  | - | - | **-** | - | - | - | - |
| **11.2** | Horticulture Production  | Ginger | Non-availability of disease free planting material  | OFT | Single sprout transplanting technique in Ginger | 1 | 30 | PC (Hort), SMS-SS, PP, AE |
| **11.3** | Livestock Production  | Poultry | Lack of awareness about scientific poultry management | Training | Entrepreneur development programme (EDP) on ‘Poultry farming’ | 2 | 50 | SMS-Ag.ExtnSMS-Animal Sc |
| **11.4** | Home Science  | 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 and income generation | 2 | 50 | SMS-HS, SS, PP, Hort (PC), AG |
|  |  | Jack fruit | Lack of knowledge on value additionLow income during glut | Need based | Jackfruit value addition | 2 | 50 | SMS-HS, SS, PP, Hort (PC), AE |
| **11.5** | Plant Protection | - | - | **-** | - | - | - | - |
| **11.6** | Production of Inputs at Site | - | - | **-** | - | - | - | - |
| **11.7** | Soil Health and Fertility  | Vegetable crops | Lack of knowledge on water soluble fertilizers – Fertigation  | Training | Importance of fertigation in schedules in enhancing yield potentials  | 2 | 50 | SMS-SS, PP, Hort (PC) |
| **11.8** | PHT and value addition | Minor millets | Lack of knowledge on processing and value addition | Need based | Importance of processing of minor millets for value addition and income generation | 2 | 50 | SMS-HS, SS, PP, Hort (PC), AG |
| **11.9** | Capacity Building Group Dynamics | **-** | Lack of awareness about importance of income generating activities | Training | Importance of Income Generating Activities  | 2 | 50 | SMS-AE, PP, Hort (PC) |
| **11.10** | Farm Mechanization  | - | - | **-** | - | - | - | - |
| **11.11** | Fisheries Production Technologies | - | - | **-** | - | - | - | - |
| **11.12** | Mushroom production | Mushroom | Lack of awareness about mushroom production technologies | Need based | Mushroom cultivation | 2 | 50 | SMS-AE, HS, Hort (PC) |
| **11.13** | Agro forestry | - | - | **-** | - | - | - | - |
| **11.14** | Bee Keeping | - | - | **-** | - | - | - | - |
| **11.15** | Sericulture | - | - | **-** | - | - | - | - |
| **11.16** | Natural resource management | Waste/Residual management | Lack of knowledge on composting techniques | Training | Different methods of composting & segregation of wastes & use of decomposer | 2 | 50 | SMS-SS, PP, Hort (PC) |

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

### 12 Training for Extension Personnel during 2017-18

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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 | 2 | 50 | SMS-AE, Agron, PC-Hort |
|  |  | Soil and moisture conservation technologies | 2 | 50 | SMS-AE, Agron, PC-Hort |
| **12.2** | Home Science | Health and nutrition education for Anganwadi workers | 2 | 50 | SMS- HS, AE |
|  |  | Nutrition garden and composting techniques in Anganwadis  | 2 | 50 | SMS- HS, PC and All SMS |
| **12.3** | Capacity Building and Group Dynamics | Personality Development | 2 | 50 | SMS-AE, PC |
| **12.4** | Horticulture | Precision Farming technologies | 2 | 50 | PC (Hort), SMS-SS, PP, AE |
| **12.5** | Livestock Production & Management | Balanced Animal nutrition | 2 | 50 | SMS-AS, Agron, AE |
| **12.6** | Plant Protection | Integrated Pest Management practices | 2 | 50 | SMS-AS, Agron, AE |
|  |  | Safe use of pesticides | 2 | 50 |  |
| **12.7** | Farm Mechanization | - | - | - | - |
| **12.8** | PHT and value addition | - | - | - | - |
| **12.9** | Production of Inputs at Site | - | - | - | - |
| **12.10** | Sericulture | - | - | - | - |
| **12.11** | Fisheries | - | - | - | - |

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

## 13 Vocational trainings during 2017-18

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | Finger millet – value addition and income generation | 2 (5 Days) | SHGs | 50 | - | SMS- HS, SMS –AG |
|  |  | Jack – value addition and income generation | 2 (5 Days) | SHGs | 50 | - | SMS- HS, SMS –AG |
| 13.3 | Capacity Building and Group Dynamics | - | - | - | - | - | - |
| 13.4 | Horticulture | - | - | - | - | - | - |
| 13.5 | Livestock Production & Management | Entrepreneur development programme (EDP) on ‘Broiler Integrated 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 | Minor millets – Processing and value addition to increase income  | 1 (5 Days) | SHGs | 25 | - | SMS- HS, SMS-AG |
| 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 | 75 |  | SMS-AE, PC-Hort |
| 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 2017-18

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No.** | **Thematic area and the Crop/Enterprise** | **Training title\*** | **No. of programmes & 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 | Ration balancing programme in dairy animals | 2 (2 days) | Farmers | 100 | KMF | SMS-As, PC, AE |
| 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  | 200 | 400 | PC & All SMSs |
| 15.2 | Diagnostic visits  | Whenever necessary | - | Concerned subject |
| 15.3 | Field Day  | 20 | 1000 | PC & All SMSs |
| 15.4 | Group discussions | 15 | 350 | PC & All SMSs |
| 15.5 | KisanGhosthi | 04 | 160 | PC & All SMSs |
| 15.6 | Film Show  | 30 | 1000 | 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  | 04 | 3000 | PC & All SMSs |
| 15.10 | Scientists’ visit to farmers field  | 200 | 250 | 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 | 5 | 100 | 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  | 25 | 850 | 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 | Pre Kharif and Pre Rabi Campaigns | 02 | 500 | PC & All SMSs |

*\* Organize the programmes if funds are provided*

## 16. Activities proposed as Knowledge and Resource Centre during 2017-18

**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 | - | - | PC & All SMSs  |
| 16.1.3 | Lab Analytical services  | Soil testing and fertilizer recommendation based on STVTesting the quality of irrigation water  | 3000 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 2017-18** | **Names of the team members involved** |
| 16.2.1 | Seeds  | Finger millet (ML-365) | 40 q | Farm Manager, SMS(Agronomy)  |
| Redgram (BRG-5) | 35 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 (Yorkshire) | 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 2017-18

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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 | 3,00,000/- | PC and SMS(AE),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  | 40,00,000/- | PC and All SMSs |
| 17.3 | State Department of Horticulture, GOvt. of Karnataka | Farmers Producers Organizations | Demonstrations, Exposure visit, Capacity building programmes | 12,39,000/- | PC and All SMSs |

**18. Revolving Fund**

**18.1 Financial status**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Opening balance as on 01.04.2016****(Rs.in Lakh)** | **Expenditure incurred during 2016-17****(Rs.in Lakh)** | **Receipts during****2016-17****(Rs.in Lakh)** | **Closing balance as on 31.01.2017****(Rs.in Lakh)** | **Expected closing balance by 31.03.2017** **(Including value of material in stock/ likely to be produced)** |
| 4,19,715-00 | 6,17,151-00 | 4,34,222-00 | 2,36,786-00 | 3,44,992-00 |

**18.2 Plan of activities under Revolving Fund**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Proposed activities** | **Expected output** | **Anticipated income (Rs.)** | **Names of the team members involved** |
| 18.2.1 | Seed Production | 75 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 2017-18

|  |  |  |  |
| --- | --- | --- | --- |
| **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 2017-18

|  |  |  |  |
| --- | --- | --- | --- |
| **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 | Pole beans | Integrated Crop Management in Pole beans  | 30,000/- |

**24. Innovative Activity**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Thematic area** | **Title of the Innovative Activity** | **Budget proposed in Rs.** |
| 24.1 | Balanced Animal Feed  | Community Approach for Preparation of Balanced Animal Feed from Local Resources | 30,000/- |

**25. Budget - Details of budget utilization (2016-17) upto 31 January 2017(Rs.)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No.** | **Particulars** | **Sanctioned** | **Released** | **Expenditure** |
| **24.1**  | **Recurring Contingencies** |  |  |  |
| 24.1.1 | **Pay & Allowances** | 7437000 | 7437000 | 7021049 |
| 24.1.2 | **Traveling allowances** | 150000 | 150000 | 120000 |
| 24.1.3 | **Contingencies** |  |  |  |
| *24.1.4.1* | Stationery, telephone, postage & other expenditure on office running, publication of Newsletter and library maintenance  | 255000 | 255000 | 238166 |
| *B* | POL, repair of vehicles, tractor and equipments | 175000 | 175000 | 175000 |
| *C* | Meals/refreshment for trainees  | 75000 | 75000 | 33055 |
| *D* | Training material  | 63000 | 63000 | 59597 |
| *E* | Frontline demonstration except oilseeds and pulses  | 262000 | 262000 | 211414 |
| *F* | On farm testing  | 102000 | 102000 | 89682 |
| *G* | Training of extension functionaries | 45000 | 45000 | 23034 |
| *H* | Integrated Farming System (IFS) | 30000 | 30000 | 27220 |
| *I* | Extension Activities | 55000 | 55000 | 54179 |
| *J* | Farmers' Field School | 30000 | 30000 | 30000 |
| *k* | Maintenance of buildings | 50000 | 50000 | 27633 |
| *l* | Establishment of Soil, Plant & Water Testing Laboratory  | 50000 | 50000 | 50000 |
| *m* | Display Boards | 10000 | 10000 | 8237 |
| *n* | Library  | 10000 | 10000 | 9344 |
| **24.1**  | **Total Recurring** | **8799000** | **8799000** | **8177610** |
| **24.2** | **Non-Recurring Contingencies** |  |  |  |
| 24.2.1 | **Works** |  |  |  |
| 24.2.2 | **Equipments including SWTL & Furniture** | 400000 | 400000 | 350893 |
| 24.2.3 | **Vehicle** (Four wheeler/Two wheeler, please specify) | 800000 | 800000 | 800000 |
| 24.2.4 | **Library** | 0 | 0 |  |
| **24.2** | **Total Non Recurring** | 1200000 | 1200000 | 1150893 |
| **24.3** | **REVOLVING FUND** | - | - | - |
| **24.4** | **GRAND TOTAL (A+B+C)** | **9999000** | **9999000** | **9328503** |

**26. Details of Budget Estimate (2017-18) based on proposed action plan**

|  |  |  |
| --- | --- | --- |
| **S. No.** | **Particulars** | **Proposed (Rs.)** |
| **25.1** | **Recurring Contingencies** |  |
| 25.1.1 | **Pay & Allowances** | **1,46,00,000** |
| 25.1.2 | **Traveling allowances** | **3,00,000** |
| 25.1.3 | **Contingencies** |  |
| *A* | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | **4,50,000**  |
| *B* | POL, repair of vehicles, tractor and equipments | **4,50,000**  |
| *C* | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained) | **2,00,000**  |
| *D* | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | **2,00,000** |
| *E* | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | **2,98,167** |
| *F* | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | **1,21,900** |
| *G* | NFSM | **1,43,750** |
| *H* | Integrated Farming System | **75,000** |
| *I* | Training of extension functionaries | **75,000** |
| *J* | Extension activities including Krishimela | **4,00,000** |
| *K* | ***Farmers Field School***  | **30,000** |
| *L* | EDP/Innovative activity | **30,000** |
| *M* | Soil & Water testing & Issue of Soil Health Cards | **75,000** |
| *N* | Display boards | **20,000** |
| *J* | Maintenance of buildings | **2,00,000** |
| *K* | *Library (Purchase of Journal, Periodicals, News Paper & Magazines)*  | **10,000** |
| *25.1* | **TOTAL Contingencies** | **27,78,817** |
|  | **TOTAL RECURRING CONTINGENCIES** | **1,76,78,817** |
| **25.2** | **Non-Recurring Contingencies** |  |
| 25.2.1 | **Works** | **5,00,000** |
| 25.2.2 | **Equipments & Furniture** | **2,00,000** |
| 25.2.3 | **Library** (Purchase of assets like books & journals) | **0** |
| **25.2** | **TOTAL Non-Recurring Contingencies** | **7,00,000** |
| **25.3** | **REVOLVING FUND** | **0** |
| **25.4** | **GRAND TOTAL** | **1,83,78,817** |

**\*\*\*\*\*\*\*\***