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| C:\Users\Dr Palanimuthu\Documents\University Logo Black(1).jpg |  | http://3.bp.blogspot.com/-Aui_5lNJsoQ/Tm7xKFOUqgI/AAAAAAAAAis/7pvXshp0Ruc/s1600/icar+logo.jpg |

###### ACTION PLAN 2015-16

**Krishi Vigyan Kendra**

Hadonahalli-561 205, Tubagere Hobli

Doddaballapura Taluk

Bangalore Rural District

###### 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  Bangalore Rural District  Phone: 080-27652082, Fax: 080-27652093  E mail: kvkbrd@gmail.com |
| 1.2 | Name and address of host organization | **:** | University of Agricultural Sciences  Gandhi Krishi Vigyan Kendra, Bangalore – 560 065  Karnataka, India |
| 1.3 | Year of sanction | **:** | 2006 |
| 1.4 | Website address of KVK and date of last update | **:** | www.kvkbrd.org and last updated on 03-03-2015 |

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

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Sanctioned post** | **Name of the incumbent** | **Discipline** | **Existing Pay band** | **Grade Pay** | **Date of joining** | **Permanent / Temporary** |
| 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.Ananda G.Manegar | Animal Science | 15600-39100 | 7000 | 13.03. 2007 | Permanent |
| 2.4 | Subject Matter Specialist | Mrs.B.G.Vasanthi | Soil Science | 15600-39100 | 7000 | 28.03. 2007 | Permanent |
| 2.5 | Subject Matter Specialist | Dr.M.Padmavathi | Agricultural 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 | Mr. A.Sudarshan Reddy | Agronomy | 22000 | 0 | 01.08.2014 | 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/Superintendent | Mrs. M.K.Meenakshi | Assistant | 16000-29600 | - | 03.07.2013 | Permanent |
| 2.12 | Stenographer | Mrs.Rukmini, S. | 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 | Messenger | 9600-14550 | - | 27.01. 2011 | Permanent |

**3. Details of SAC meeting conducted during 2014-15**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.**  **No** | **Date** | **Major recommendations** | **Status of action taken in brief** | **Tentative date of SAC meeting proposed during**  **2015-16** |
| 3.1 | 16.12.2014 | Provide feedback to Indian Grassland and Fodder Research Institute (IGFRI) about the performance of Dharwad Hybrid Napier-6 (DHN-6) fodder variety and also to Tamil Nadu Agricultural University (TNAU) about their technologies which are tested in KVK’s On Farm Testing’s. | Dr. Nagarathna Biradar, Principal Scientist, Regional Grassland & Fodder Research Institute visited the various fields and collected the feedback about the performance of DHN-6 and CoFS-29 | December 2015 |
| Conduct demonstrations on finger millet sowing using tractor drawn seed drill to encourage line sowing and also on use of Reapers / Ragi harvester-cum-thresher in farmers fields | Will be implemented during 2015 (*Kharif*) in farmers field and as well as KVK farm |
| Explore the possibility of floriculture based interventions in Hosakote taluk in 2015-16 | Proposed OFT & FLD programmes on nutrient management and management of Pests & Diseases in Rose during Action plan 2015-16 |
| Conduct demonstrations of varieties of field crops suitable for late/delayed sowing | Proposed FLD programme finger millet var. ML-365 during Action plan 2015-16 |
| Explore the innovations which reduce labour requirement in farming in Bangalore Rural district as it is becoming peri-urban area. | Demonstrations on drudgery reduction activities will be taken up in 2015-16 |
| Develop video films/clippings during different stages of the crops by hiring local videographers. | Will be undertaken for selected activities in 2015-16 |
| Explore the possibilities of conducting need based paid training programmes | Entrepreneur Development Programme (EDP) on mushroom cultivation on paid basis is planned in 2015-16 |
| Participate in local fairs/jathras by putting up a stall to improve the visibility of KVK | Proposed to conduct awareness programme at Ghati temple (Jhatra) |
| Explore the use of KVK brand name on the value added products prepared by SHGs with technical guidance from KVK | It is being practiced by trained 11 SHGs |
| Initiate steps to convert Commodity Based Associations to Producer Companies by utilizing grants from ICAR. | Will explore in 2015-16 |
| Involve SHGs in KVK farm operations and management of demonstration units on profit sharing basis | Will be Initiated during 2015-16 |
| Explore the possibility of identifying cost minimization techniques (Palekar method) in KVK farm activities | Possibilities will be explored during 2015-16 |
| Explore the possibilities of adopting the ITKs followed by KVK, Calicut for infertility management in dairy animals | Planned to visit to KVK, Calicut to know about the infertility treatment and further dissemination to our farmers |
| Include farmers’ representatives from each cluster as Special Invitees for the next Scientific Advisory committee meeting. | Action will be initiated during next SAC meeting |

**4. Capacity Building of KVK Staff**

**4.1. Plan of Human Resource Development of KVK personnel during 2015-16**

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| --- | --- | --- | --- |
| **S. No** | **New Areas of Training** | **Institution proposed to attend** | **Justification** |
| 4.1.1 | Plant protection | NIPHM, Hyderabad | To update knowledge about principles of pesticide management |
| 4.1.2 | Storage pest management | NIPHM, Hyderabad | To acquire knowledge about stored grain pest detection and management |
| 4.1.3 | Land Resource Management | NBSS&LUP, Bengaluru | Recent techniques in planning management of land resources |
| 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 | Winning Research proposals | NAARM, Hyderabad | To develop winning Research Proposals in Agricultural Research in the interest of KVK |
| 4.1.6 | Communication | NAARM, Hyderabad | To improve the agricultural knowledge communication |
| 4.1.7 | Food safety | IICPT, Tanjavur | To upgrade knowledge on food safety and microbial analysis |
| 4.1.8 | Mush room cultivation | IIHR, Hessaraghatta | Commercial cultivation technologies in mushroom |
| 4.1.9 | Value addition | CFTRI, Mysore | Vegetable oil processing, value added products and analysis |
| 4.1.10 | Commercial dairy farming | NDRI, Karnal | Profitable dairying, economics |

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| 4.1.11 | Animal nutrition | NIANP, Bengaluru | Feed technologies |
| 4.1.12 | Animal parasitological techniques | Veterinary College, Bengaluru | Pest and disease control and management |
| 4.1.13 | Poultry production | Centre Institute, Hesaraghatta | Feed analytical techniques, alternate poultry rearing |
| 4.1.14 | Photoshop, CorelDraw and Animation | NIIT / APTECH / KEONICS | To develop and conduct the programme in a befitting matter |
| 4.1.15 | Farm Mechanization | UAS, Bangalore | Reduce the labour and to carry out the farm activities by timely usage of farm machines |
| 4.1.16 | Office management in Accounts & Administration with computer application | UAS, Bangalore | Effective management of Office administration and accounts |

**4.2. Cross-learning across KVKs during 2015-16**

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

**5. Proposed cluster of KVKs (3 to 5 neighboring KVKs) to be formed for sharing knowledge/expertise, resources and activities during 2015-16**

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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 horticulture practices, commodity groups and market linkages, quality seeds and planting materials  Integrated farming system module | Quality seeds and planting materials. Nutrient mixture, Exposure visits, farmers interaction |
| 5.2 | KVK, Chikkaballapur | Improved Sericulture practices and village development concept, Exposure visits, farmers interaction |
| 5.3 | KVK, Tumkur | Micronutrients, Planting material and Millet processing |

**6. Operational areas details proposed during 2015-16**

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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  **Plantation crops -** Arecanut  **Flower crops –** gerbera, carnation  **Animal husbandry-** cows, buffaloes, sheep, goat and backyard poultry  **Fodder crops-** African tall, Napier grass  **Others -** 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 * 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 * Minimal use of E-Extension services * Problem of threshing in finger millet * Lack of knowledge on terrace gardening * Lack of knowledge on improved storage techniques * No awareness on intercropping * Fertility problems in cross breeds and desi 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 | * 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 | 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, bengal gram  **Vegetables-** cabbage, cauliflower, beetroot, carrot, solanaceous crops, bhendi  **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 * Lack of knowledge on integrated pest & disease management * Imbalanced and insufficient use of fertilizers in field and horticultural crops * Non availability of nutritious green fodder * 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. | Bidaluru,  Anighatta,  Savukanahalli, Malagenahalli,  Devanahalli town  **-Kasaba Hobli**  **-Devanahalli taluk** | OFT, FLD, Training for farmers and Extension functionaries & other extension activities |
| 6.3 | **Cereals-** finger millet, maize  **Pulses-** field bean, redgram,  **Vegetables-** cole crops, solanaceous crops, gourds, coriander, carrot, chilli, potato  **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 * 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 * 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 * > 65% of malnutrition in goat due to unbalanced diet. * > 48% of incidence of late blight in tomato | Kallahalli,  Kumbalahalli, Alappanahalli,  Upparahalli  **-Kasaba Hobli**  **-Hosakote taluk** | OFT, FLD, Training for farmers and Extension functionaries & other extension activities |
| 6.4 | **Cereals-** finger millet, maize  **Pulses-** Field bean, redgram, cowpea  **Vegetables-** cabbage, tomato, 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 * Low yields in cereals and pulses * Improper use of fertilizers and plant protection chemicals * 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 ICM in Banana * Lack of knowledge on scientific dairy management * Lack of awareness on late blight management in tomato * Lack of knowledge on value addition in maize * 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 | * 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 | K R Pura,  Obalapura,  Kodigehalli,  Kenchanapura,  Balagere  **-Thyamagondlu Hobli**  **-Nelamangala taluk** | OFT, FLD, Training for farmers and Extension functionaries & other extension activities |

**7. Technology Assessment during 2015-16**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl. 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 | Fodder | -Low productivity, more pubescent  -Less palatability | Assessment of multi cut Fodders for yield and quality | **T1-**Napier grass (NB-21)  **T2-**Hybrid Bajra Napier(Co-3)  **T3-**BH 18  **T4-**Dharwad Hybrid Napier (DHN-6) | IGFRI – Dharwad 2011 | BH-18  Dharwad Hybrid Napier (DHN-6)  Board + Field Day |  | **FC**  **FC** | 04  (0.4 ha) | **FC**  **4000-00**  **4000-00** | Soil fertility status (pre & post)  Palatability  Yield (t/cut)  Cumulative yield (t/yr)  B:C ratio | SMS-Agron  SMS-AS |
| 7.2 | Potato | incidence of late blight in Potato | Assessment on management of late blight in Potato | **T1-**Mancozeb (0.2%), Dimethomorph (0.1%) + Mancozeb (0.2%), CoC (0.3%), Fenamidone + Mancozeb Metalaxyl + Mancozeb (0.2%), Cymoxanil + Mancozeb (0.3%)  Copper Hydroxide (0.2%), Propineb (0.2%), Chlorothalonil (0.2%)  **T2-**Prophylactic Mancozeb (0.2%) 2 times  Cymoxanil + Mancozeb (0.3%))  **T3-**Soil application of *Trichoderma* and *Pseudomonas*  Prophylactic–Mancozeb (0.2%)  Fenamidone+mancozeb(0.3%)  Dimethomorph (0.1%)+Mancozeb(0.2%)  Cymoxanil + Mancozeb (0.3%)  **T4**- T3 + iprovalicarb + Propineb (0.4%) | CPRI 2011 | Fenamidon + Mancozeb  Dimethomorph + Mancozeb  Trichoderma Pseudomonas  Iprovalicarb+ Propineb  Board + Field day | 0.17 kg  0.1 kg  0.35kg  1.78 kg  1.78 kg  0.14kg | 484  575  136  303  410  287  **2195** | 07  (1 ha) | **15365-00**  **4000-00**  **19,365-00** | Soil fertility status (pre & post)  % Late blight incidence, No. of Fungicide sprays, Cost of sprays, Yield, B:C ratio | SMS-PP  PC-Horti |
| 7.3 | Rose | Uneven opening of buds reduced flower quality | Assessment on foliar spray of micro nutrients in Rose (var.Cherishma) | **T1**-No foliar spray  **T2**-(Boron 0.5% + Iron 50 ppm) + (Urea 1%)= 2 sprays  1st spray: after pruning and appearance of fresh flush  2nd spray: after bud initiation stage  **T3**-Micro nutrient mixture (MnSo4 + FeSo4 + MgSo4+B) 0.2%= 2 sprays  1st spray: after pruning and appearance of fresh flush  2nd spray: after bud initiation stage | IIHR & TNAU | Boric Acid  Ferrous sulphate  Nutrient mixture  Board + Field Day | 1 kg  1 kg  1 kg | 180  50  250  **480** | 06  (0.4 ha) | **2880-00**  **4000-00**  **6880-00** | Soil fertility status (pre & post)  -Quality of irrigation water  -Size of the flower  -Quality of the flower  -Yield  -B:C Ratio | SMS-PP  SMS-SS  PC-Hort |
| 7.4 | Dairy | -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**-Replacing green forages with the Jackfruit residue (in Silage form)-25% | NIANP | Drums  Feeding buckets  Board + Field Day | 2 Nos  2 Nos | 700  150  **850** | 10  (20 animals) | **17000-00**  **4000-00**  **21000-00** | -Milk yield  -SNF  -Fat%  -Incidence of metabolic disorders (Acidosis, Bloat)  -B:C ratio | SMS-AS  PC-Hort  SMS-HS |
| 7.5 | Solar drying | -Poor storage due to perishable nature  -Unhygienic drying  -Low income during glut | Solar drying – A Hygienic technique for value addition in Jack | **T1-** Fresh jack fruit  **T2-** Direct sun drying  **T3-** Solar drying | RVSCET, Coimbatore | Silpaulin sheet  Jack fruit chopper  Moisture meter  Packaging material | 4 Nos  1 No  1 No  - | 2800  1000  4000  1000  8800 | 01 | **8,800** | * Jackfruit Dry yield * Drying period * Economics * Keeping quality (days) * Acceptability * Microbial load | SMS-HS  SMS-Ag.Ext  PC-Hort |

## 8. Technology Refinement during 2015-16 - NIL

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl. 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 2015-16**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl. 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  **NFSM** | Variety | ML-365 | UAS(B) 2009 | Seeds  Azospirllum  Trichoderma  Board + Field Day | -  1kg  10kg | 200  250  1550  **2000** | 30  (12 ha) | **60000** | Soil fertility status (pre & post), Germination& establishment, No. of effective tillers/plant, yield ,  B:C ratio | SMS-Agron  SMS-HS  SMS-PP |
| 9.3 | Oilseeds | - | - | - | - | - | - | - | - | - | - | **-** | - | - |
| 9.4 | Pulses | Redgram | ->30% wilt incidence  -No proper adoption of pest and disease management production techniques | Integrated crop management in Redgram  **NFSM** | Variety | BRG-5 | UAS(B) 2013 | Seeds  Rhizobium  PSB  Pheromon traps  NPV  Spinosad  Profenophos  Dicofol  Calcium chloride  Board + Field Day | -  1kg  1kg  4 Nos  0.2 ltr  75 ml  0.4 ltr  0.6 ltr  0.5kg | 600  250  250  250  200  1200  FC  FC  250  **3000** | 15  (6 ha) | **45000** | -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-Agron  SMS-SS  SMS-PP |
| 9.5 | Commercial crops | Arecanut | Severe nut splitting leading to yield loss | Management of nut splitting in Arecanut | - | - | CPCRI | Borax  Potash  Calcium  Board + Field Day | 5.4 kg  26 kg  5.4 kg | 432  (50% FC)  250  174  **856** | 5  (1 ha) | **4280**  **4000**  **8280** | Soil fertility status (pre & post),  No of nut drop,  Nut splitting(%)  Yield  B:C Ratio | SMS-SS  PC-Hort  SMS-PP |
| 9.6 | Horticultural crops | Cabbage | DBM and black rot infestation | Eco-friendly management of diamond back moth and black rot in Cabbage | - | - | IIHR 2010 | Mustard seed  DBM traps  Neem & pongamia soap  Bt  Amamectin benzoate  Copper hydroxide  Streptocycline  Board + Field day | ½ kg  1 No  2 kg  200g  100 ml  500 ml  100 g | 150  475  650  800  FC  FC  FC  **2075** | 05  (1 ha) | 10375  4000  **14375** | Soil fertility status (pre & post), %DBM & Black rot incidence,  Yield,  B:C Ratio | SMS-PP  PC-Hort |
| 9.7 |  | Tomato | Late blight | Integrated Management of late blight in Tomato |  |  | UAS(B) 2014 | Mancozeb  Metalaxyl+ Mancozeb  Fosetyl Al  Dimethomorph  Trichoderma  Pseudomonas  Board + Field Day | 1kg  0.5 kg  0.5 kg  0.5 kg  10 kg  10 kg | FC  FC  FC  FC  1700  2300  **4000** | 05  (1 ha) | **20000**  **4000**  **24000** | Soil fertility status (pre & post), %Late blight incidence, Yield  BC ratio | SMS-PP  SMS-SS |
| 9.8 |  | Pole Beans | Imbalanced nutrition, Low FUE,  YMV, Rust, Anthracnose | Integrated Crop Management in Pole Beans | - | - | IIHR | 19:19:19  Pot, Nitrate  Mono Amm phosphate  Imidacloprid  Propiconazole  Thiomathozam  Sticky traps+lures  Trichoderma  Pseudomonas  Board + Field Day | 200g  50kg  80kg  500ml  250ml  0.1kg  4+4No  5kg  5kg | **FC**  **FC**  **FC**  **FC**  FC  440  750  850  1150  **3190** | 5  (1 ha) | **15950**  **4000**  **19950** | Soil fertility status (pre & post)  Nutrient uptake  %pest incidence  % disease incidence  Yield  B:C ratio | SMS-SS  SMS-PP  PC-Hort |
| 9.9 |  | Capsicum | Imbalanced nutrition,  Non adoption of fertigation  Soil & water conservation  Wilt incidence and mites infestation | Integrated crop management in Capsicum | - | - | IIHR | Trichoderma+ Pseudomonas  Vegetable spl  Potassium nitrate  Calcium nitrate  Mulch film  Dicofol  Fipronil  Board + Field Day | 3 ltr  3 kg  12kg  12kg  14kg  0.3 ltr  0.3ltr | 900  450  **FC**  **FC**  **FC**  240  300  **1890** | 05  (1 ha) | **9450**  **4000**  **13450** | Soil fertility status (pre & post),  Quality parameter,  Yield parameter,  Yield,  B:C Ratio | PC-Hort.  SMS-SS  SMS-PP |
| 9.10 |  | Potato | Soil born pathogens  Variation in Tuber size | Bio fertilizer and SOP for enhanced yield in Potato | - | - | IIHR | Actino Bacterial consortia  Sulphate of potash  Board + Field Day | 3 kg  40 kg | 240  (50% FC)  1040  **1280** | 5  (1 ha) | **6400**  **4000**  **10400** | Soil fertility status (pre & post),  Weight of the tuber,  Bacterial wilt incidence,  yield,  B:C Ratio | SMS-SS  PC-Hort  SMS-PP |
| 9.11 | **Livestock** | Dairy | Imbalanced nutrition, incidence of ruminal acidosis, lower milk quality (fat%, SNF) | Integrated nutritional interventions in Dairy animals | Hybrid | HF-cross | KVAFSU 2009 | Silpaulin sheet  Sprayer  Silage bags/drums  Mineral mixture  Board + Field Day | -  -  - | **FC**  42.50  450  180  **672.5** | 15 animals | **10087**  **3000**  **13087** | Milk yield,  Milk fat%  Milk SNF | SMS-AS  SMS-Agron |
| 9.12 |  | Dairy | Fibrosis of the udder,  Lower milk yield,  Lower milk quality | Management of mastitis at sub-clinical stage in Dairy animals | Hybrid | HF-cross | KVAFSU | California Mastitis kits  Povidone iodine liquid  Antibiotic intra mammary tubes  Board + Field day | -  -  - | 500  150  200  **850** | 15 animals | **12750**  **3000**  **15750** | Milk yield, Incidence of mastitis  B:C ratio | SMS-AS  SMS-PP |
| 9.13 |  | Dairy | Lice, ticks and fleas infestation,  Anemia,  Milk yield | Integrated management of Endo & Ecto-parasites in Dairy animals | - | - | KVAFSU | Flumethrin liquid  Doromectin injection  Board + Field Day | -  - | 500  500  **1000** | 10 animals | **10000**  **4000**  **14000** | Incidence of Ectoparasitic infestation,  Hemoglobin  RBC Count  TLC count | SMS-AS  SMS-PP |
| 9.14 | Fisheries | - | - | - | - | - | - | - | - | - | - | **-** | - | - |
| 9.15 | Others | Roof gardening | -Less consumption of vegetables in daily diet  -Lack of knowledge on kitchen waste management | Vegetable roof gardening and Eco friendly management of kitchen waste for health security | - | - | UAS(B) 2013 | Veg seed kit  Poly bags  Vermi compost  Veg, Spl  Neem oil  Neem cake  Cocopeat  Daily dump kit  Board + Field Day | 1 No  15 Nos  50 kgs  1 kg  250ml  20 kgs  50 kgs  1 No. | 120  FC  FC  150  330  400  FC  3500  **4500** | 04 | **18000**  **-** | Savings cost economics | SMS-HS  PC-Hort |
| 9.16 |  | Fodder | Non availability of nutritive fodder and scarcity during drought.  Lower milk quality (SNF and fat) | Promotion of fodder cafeteria for regular green fodder availability | - | - | UAS(B) | Fodder sorghum var. COFS-29 seeds  Fodder cowpea  M.dubia seedling  Board+ Field day | 1.4kg  6 kg  5 Nos. | 1400  600  130  **2130** | **05**  **(1 ha)** | **10650**  **428**  **11078** | Soil fertility status (pre & Post)  Plant height  Yield t/cut  Quantity of fodder left over  Milk yield  Quality paramters | SMS-Agron  SMS-AS |
| 9.17 |  | Maize | >95% of land cropping on sole maize | Intercropping of Fodder Cowpea in grain maize  **NFSM** | - | - | UAS(D) | Maize/Cowpea seeds  Azospirillum  Rhizobium  PSB  Board+ Field day | -  1 kg  1kg  1kg | 1250  250  250  250  **2000** | **15**  **(6 ha)** | **30000** | Soil fertility status (pre & post)  Yield-fodder of cowpea  Yield-grain maize  Weed index & weed control efficiency  B:C ratio | SMS-Agron  SMS-SS  SMS-AS |
| 9.18 |  | Field bean | Low yield due to local varieties (Dabbe Field bean) | Photo insensitive Field bean variety HA-4 for enhanced returns  **NFSM** | Variety | HA-4 | UAS(B) | Seeds  PSB  Rhizobium  Board + Field Day |  |  | 5  (2 ha) | **15000** | Soil fertility status (pre & post), Germination& establishment, Days to 50% flowering, Yield,  B:C ratio | SMS-Agron  PC-Hort  SMS-Ag.Extn |

**10 Training for Farmers/ Farm Women during 2015-16**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.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** |
| **10.1** | Crop Production | Fodder | Availability of Low quality & nutrition fodder | OFT | Importance of multi cut fodders for higher yield and quality | 1 | 25 | SMS-Agron  SMS-AS |
| Non availability of green fodder around the year | FLD | Cultivation of annual and perennial fodder crops to mitigate demand for forages | 1 | 25 | SMS-Agron  SMS-AS |
| Less nutritional fodder availability | FLD | Fodder quality enrichment through cereal & pulse forages | 1 | 25 | SMS-Agron  SMS-AS |
| Non-aware about scientific fodder production technologies | OFT | Importance production techniques in fodder crops | 1 | 25 | SMS-Agron  SMS-AS |
| Finger millet | Drought vulnerability and blast incidence | FLD | Importance of Ragi var. ML-365 | 1 | 25 | SMS-Agron  SMS-PP |
| Not controlling the weeds which causes more than 40% yield reduction | FLD | Importance of inter cultural operations for higher returns in Ragi | 1 | 25 | SMS-Agron  SMS-HS |
| Redgram | Fusarium wilt incidence and pod borer menace | FLD | Importance of integrated crop management in Redgram var. BRG-5 | 1 | 25 | SMS-Agron  SMS-PP |
| Lack of awareness about Redgram varieties | FLD | Importance of different varieties in Redgram and their usages | 1 | 25 | SMS-Agron  SMS-PP |
| Maize | Sole cropping of maize in a large area | FLD | Importance of inter cropping maize based cropping systems (cereals + pulse) | 1 | 25 | SMS-Agron  SMS-SS |
| **10.2** | Horticulture Production | Capsicum | Less water use efficiency and high weed infestation | FLD | Plastic mulching technique in Capsicum | 1 | 25 | PC-Hort  SMS-SS |
| Non adoption of crop production practices | FLD | Integrated crop management in Capsicum | 1 | 25 | PC-Hort  SMS-SS |
| Pole Beans | Low micro nutrients availability in vegetable crops | FLD | Yield enhancement in Pole beans through vegetable specials | 1 | 25 | SMS-SS & PP  PC-Hort |
| Non awareness of nutrient applications | FLD | Integrated nutrient management in Pole Beans | 1 | 25 | SMS-SS & PP  PC-Hort |
| Severe incidence of leaf minor, red mites and pod borer | FLD | Integrated pest management in Pole Beans | 1 | 25 | SMS-PP  SMS-SS |
| Non-adoption of improved technologies in pole beans | FLD | Integrated crop management in Pole beans | 1 | 25 | SMS-SS  SMS-PP, PC-Hort |
| Severe incidence of yellow mosaic virus, rust and anthracnose | FLD | Integrated disease management in Pole Beans | 1 | 25 | SMS-PP  SMS-SS |
| Potato | Un-even size of tubers and low quality | FLD | Role of potassium nutrition in Potato | 1 | 25 | SMS-SS  SMS-PP |
| Cabbage | Lack of awareness about improved cultivation practices | FLD | Integrated crop management in Cabbage | 1 | 25 | SMS-SS  SMS-PP, PC-Hort |
| Rose | Unscientific cultivation | OFT/FLD | Scientific cultivation in Rose | 1 | 25 | SMS-SS  SMS-PP, PC-Hort |
| Carrot | Lack of knowledge on crop management | FLD | Integrated nutrient management in Carrot | 1 | 25 | SMS-SS  SMS-PP |
| FLD | Advantage of foliar nutrition in Carrot | 1 | 25 | SMS-SS  SMS-PP |
| Tomato | Improper nutrient management and lack of awareness about resistant hybrid | FFS | Integrated Crop management in Tomato | 1 | 25 | SMS-PP  PC-Hort  SMS-SS |
| **10.3** | Livestock Production | Dairy | Lack of Importance of green forages in dairy animals | FLD | Feed and fodder management technologies in livestock | 1 | 25 | SMS-Agron  SMS-AS |
| Dairy | Imbalanced nutrition, high cost of milk production | FLD | Integrated nutritional interventions in dairy animals | 1 | 25 | SMS-AS  SMS-Agron |
| Dairy | Non-availability of green fodder | FLD | Preparation of silage making for dairy animals | 1 | 25 | SMS-AS  SMS-Agron |
| Dairy | Imbalanced nutrition, lower milk yield, Low SNF, Low fat % | FLD | Ration balancing programme in dairy animals | 1 | 25 | SMS-AS  SMS-Agron |
| Dairy | Non-availability of green fodder during off-season, wastage of jackfruit residue | OFT | Silage making and its importance during off-season in dairy animals | 1 | 25 | SMS-AS  PC-Hort |
| Dairy | Lack of knowledge about feeding jackfruit residue | OFT | Utility of jackfruit residue in total mixed ration in dairy animals | 1 | 25 | SMS-AS  PC-Hort |
| Dairy | Incidence of mastitis, antibiotic resistance of micro organisms | FLD | Economic importance of diseases in livestock | 1 | 25 | SMS-AS  SMS-PP |
| FLD | Prevention, control and treatment of mastitis in dairy animals | 1 | 25 | SMS-AS  SMS-PP |
| FLD | Disease management in dairy animals | 1 | 25 | SMS-AS  SMS-SS |
| **10.4** | Home Science | Jackfruit | Low cost of jackfruit | OFT | Jackfruit value addition | 1 | 25 | SMS-HS  SMS-SS |
| Fruit & Vegetable | Lack of awareness on post harvest storage techniques | FLD | Enhancement of shelf life of fruits & vegetable through storage techniques | 1 | 25 | SMS-HS  SMS-Agron |
| Roof gardening | Non-consumption of vegetables in daily diet | FLD | Ensuring availability of vegetables through terrace garden for health benefits | 1 | 25 | SMS-HS  SMS-PP |
| Kitchen waste | Improper management of house hold garbage | FLD | House hold kitchen waste management | 1 | 25 | SMS-HS  SMS-SS |
| Jackfruit | No awareness on drying techniques | OFT | Production of jackfruit products using solar drying technique | 1 | 25 | SMS-HS  SMS-Agron |
| Fruit & Vegetable | Nutrition insecurity among school children | FLD | Importance of fruits & vegetable for good health among school children | 1 | 25 | SMS-HS  SMS-PP |
| Roof gardening | Shortage of land for vegetable production in peri-urban areas | FLD | Scientific cultivation methods of fruits & vegetables in terrace gardening | 1 | 25 | SMS-HS  SMS-AS |
| Daily dump | Improper management of household garbage | FLD | Use of daily dump for composting | 1 | 25 | SMS-HS  SMS-SS |
| **10.5** | Plant Protection | Agriculture | Lack of awareness about use of pesticides and IPM practices | Training | IPM in agriculture and safe use of pesticides | 1 | 25 | SMS-Ag.Extn  SMS-PP |
| Potato | Frequent out break of late blight disease | OFT | Monitoring pest & disease surveillance in Potato | 1 | 25 | SMS-PP  PC-Hort. |
| Cabbage | Pest & disease menace, poor quality | FLD | Integrated Disease Management in Cabbage | 1 | 25 | SMS-PP  PC-Hort |
| FLD | Integrated Pest Management in Cabbage | 1 | 25 | SMS-PP  PC-Hort |
| Tomato | Severe incidence of late blight, resulting in yield loss | FLD | Monitoring pests & disease surveillance in Tomato | 1 | 25 | SMS-PP  SMS-SS |
| OFT | Management of late blight in Tomato | 1 | 25 | SMS-PP  PC-Hort |
| Rose | Indiscriminate use of pesticides | OFT | Integrated pest management in Rose | 1 | 25 | SMS-PP  PC-Hort |
| OFT | Integrated disease management in Rose | 1 | 25 | SMS-PP  PC-Hort |
| **10.6** | Production of Inputs at Site | - | - | - | - | - | - | - |
| **10.7** | Soil Health and Fertility | Vegetables | Improper management of nutrient application | Training | Nutrient management through fertigation | 1 | 25 | SMS-SS  SMS-PP |
| Rose | Excessive use of macro nutrients and Non-application of micro nutrients | OFT | Integrated nutrient management in Rose | 1 | 25 | SMS-SS  SMS-PP |
| OFT | Importance of foliar nutrition in Rose | 1 | 25 | SMS-SS  SMS-PP |
| Potato | Non-awareness of soil health management | FLD | Role of bio fertilizers in soil health management | 1 | 25 | SMS-SS  SMS-PP |
| **10.8** | PHT and value addition | - | - | - | - | - | - | - |
| **10.9** | Capacity Building Group Dynamics | Roof gardening | Shortage of land in peri-urban areas, vegetable cultivation through roof gardening | FLD | Terrace gardening – Scientific cultivation and management | 1 | 25 | SMS-HS  SMS-SS |
| Fruits & Vegetables | Spoilage of fruits & vegetables and high cost of refrigerator | FLD | Improved storage techniques for grains, fruits and vegetables | 1 | 25 | SMS-HS  SMS-Agron |
| **10.10** | Farm Mechanization | **-** | **-** | **-** | - | **-** | **-** | **-** |
| **10.11** | Fisheries Production Technologies | **-** | **-** | **-** | - | **-** | **-** | **-** |
| **10.12** | Mushroom production | **-** | **-** | **-** | - | **-** | **-** | **-** |
| **10.13** | Agro forestry | **-** | **-** | **-** | - | **-** | **-** | **-** |
| **10.14** | Bee Keeping | **-** | **-** | **-** | - | **-** | **-** | **-** |
| **10.15** | Sericulture | **-** | **-** | **-** | - | **-** | **-** | **-** |
| **10.16** | Water Conservation | - |  | Others | Moisture conservation techniques | 1 | 25 |  |

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

**11. Training for Rural Youth during 2015-16**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.No.** | **Thematic area** | **Crop / Enterprise** | **Major problem** | **Linked field intervention (Assessment/ Refinement/FLD)\*** | **Training Course Title\*\*** | **No. of Courses** | **Expected No. of participants** | **Names of the team members involved** |
| **11.1** | Crop Production | - | - | **-** | - | - | - | - |
| **11.2** | Horticulture Production | - | - | **-** | - | - | - | - |
| **11.3** | Livestock Production | Poultry | Lack of awareness about scientific poultry management | Training | Entrepreneur development programme (EDP) on ‘Poultry farming’ | 1 | 25 | SMS-Ag.Extn  SMS-Animal Sc |
| **11.4** | Home Science | Bakery | Lack of knowledge on value addition and baking technology | Training | Bakery and confectionery technology | 1 | 25 | SMS-Ag.Extn  SMS-Home Sc |
| **11.5** | Plant Protection | - | - | **-** | - | - | - | - |
| **11.6** | Production of Inputs at Site | - | - | **-** | - | - | - | - |
| **11.7** | Soil Health and Fertility | - | - | **-** | - | - | - | - |
| **11.8** | PHT and value addition | - | - | **-** | - | - | - | - |
| **11.9** | Capacity Building Group Dynamics | - | - | **-** | - | - | - | - |
| **11.10** | Farm Mechanization | Coconut | Lack of knowledge on usage of farm mechanization | Training | Friends of Coconut Tree (FOCT) | 1 | 25 | SMS-Ag.Extn  SMS-Agronomy |
| **11.11** | Fisheries Production Technologies | - | - | **-** | - | - | - | - |
| **11.12** | Mushroom production | Mushroom | Lack of awareness on mushroom cultivation techniques | Training | Entrepreneur Development Programme (EDP) on Mushroom cultivation | 1 | 25 | SMS-Ag.Extn  SMS-Home Sc |
| **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 2015-16

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl.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 |
| **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 2015-16

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

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

## 14. Sponsored trainings during 2015-16

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.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 | Friends on Coconut Tree | 02(6 days) | Youth | 25 | GOK | SMS-Agril. Extension  PC-Horticulture  All SMSs |
| 14.5 | Livestock Production & Management | - | **-** | **-** | **-** | **-** | **-** |
| 14.6 | Plant Protection | - | **-** | **-** | **-** | **-** | **-** |
| 14.7 | Soil Science | - | **-** | **-** | **-** | **-** | **-** |
| 14.8 | Farm Mechanization | - | **-** | **-** | **-** | **-** | **-** |
| 14.9 | PHT and value addition | - | **-** | **-** | **-** | **-** | **-** |
| 14.10 | Production of Inputs at Site | Usefulness of Biofuel plants, nursery techniques, cultivation, harvesting, oil extraction, value addition to bi-products | 10 (1 day) | Students  Farmers/ farmwomen, etc | 300 | Karnataka State Biofuel Development Board (KSBDB) | PC  All SMSs  I&DC Staff |
| 14.11 | Sericulture | - | **-** | **-** | **-** | **-** | **-** |
| 14.12 | Fisheries | - | **-** | **-** | **-** | **-** | **-** |
| 14.13 | Natural Resource Management | - | **-** | **-** | **-** | **-** | **-** |

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

## 15. Extension programmes during 2015-16

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.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 | Kisan Ghosthi | 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 | Kisan Mela | 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 |
|  | Others, pl. specify |  |  |  |

*\* Organize the programmes if funds are provided*

## 16. Activities proposed as Knowledge and Resource Centre during 2015-16

**16.1 Technological knowledge**

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

**16.2 Technological Products**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.No.** | **Category** | **Name of the product** | **Quantity (Qtl.)/ 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**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.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 | 245 | Programme Asst. (Computer) & All SMSs |
| 16.3.6 | Information on centre/state sector schemes and service providers in the district. | 01 | PC & All SMSs |

## 7. Additional Activities Planned during 2015-16

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl.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 | RKVY, GOK | Sustainable seed production and supply system through Farmer’s Association | Provide seed of appropriate varieties to be used by different categories of farmers, multiply and distribute these seeds on a timely basis and at a affordable price to farmers and maintain quality control through training and regulatory systems | 55,92,000/-\* | PC and All SMSs |
| 17.3 | ICAR | Attracting and Retaining Youth in Agriculture (ARYA) | Attracting and Retaining Rural Youth in Agriculture Through Entrepreneurship Development in Bangalore Rural district | 250,00,000/-\* | PC and All SMSs |

\*Project proposals have been submitted for further approval.

**18. Revolving Fund**

**18.1 Financial status**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Opening balance as on 01.04.2014**  **(Rs.in Lakh)** | **Expenditure incurred during 2014-15**  **(Rs.in Lakh)** | **Receipts during**  **2014-15**  **(Rs.in Lakh)** | **Closing balance as on 31.01.2015**  **(Rs.in Lakh)** | **Expected closing balance by 31.12.2015 (Including value of material in stock/likely to be produced)** |
| 6.73 | 7.61 | 5.55 | 4.67 | 7.41 |

**18.2 Plan of activities under Revolving Fund**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.No.** | **Proposed activities** | **Expected output** | **Anticipated income (Rs.)** | **Names of the team members involved** |
| 18.2.1 | Seed Production | 95 qtl. | 2,75,000/- | Farm Manager, SMS(Agronomy) |
| 18.2.2 | Production of planting material | 20000 Nos. | 3,90,000/- | PC(Horticulture), Farm Manager |
| 18.2.3 | Heifer production | 4 Nos. | 80,000/- | 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 | 1000 kg | 1,50,000/- | SMS(Soil Science), Training Assistant |

## 19. Activities of soil, water and plant testing laboratory during 2015-16

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.No.** | **Type** | **No. of samples to be analyzed** | **Names of the team members involved** |
| 19.1 | Soil | 1200 | SMS(Soil Science), Training Assistant |
| 19.2 | Water | 800 | SMS(Soil Science), Training Assistant |

## 20. E-linkage during 2015-16

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. 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 | - | - |
| 20.3 | Any other (Please specify) | - | - |

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

|  |  |  |
| --- | --- | --- |
| **Sl. No** | **Activities planned** | **Remarks if any** |
| 21.1 | Proposal has been submitted to the Zonal Project Director, Zone-VIII, ICAR, Hebbal, Bangalore for Rainwater Harvesting with Micro Irrigation System to be established at KVK, Bengaluru Rural District | |

**22. Innovative Farmer’s Meet**

|  |  |  |
| --- | --- | --- |
| **Sl.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**

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

**24. Budget - Details of budget utilization (2014-15) up to 31 January 2015**

**(Figures in Rs.)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Particulars** | **Sanctioned** | **Released** | **Expenditure** |
| **25.1** | **Recurring Contingencies** |  |  |  |
| 25.1.1 | **Pay & Allowances** | 6850000 | 6850000 | 6304889 |
| 25.1.2 | **Traveling allowances** | 105000 | 105000 | 116498 |
| 25.1.3 | **Contingencies** |  |  |  |
| *A* | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance | 50000 | 50000 | 272775 |
| *B* | POL, repair of vehicles, tractor and equipments | 50000 | 50000 | 206192 |
| *C* | Meals/refreshment for trainees | 30000 | 30000 | 77440 |
| *D* | Training material | 30000 | 30000 | 95789 |
| *E* | Frontline demonstration except oilseeds and pulses | 310000 | 310000 | 281722 |
| *F* | On farm testing | 50000 | 50000 | 107061 |
| *G* | Training of extension functionaries | 10000 | 10000 | 24965 |
| *H* | Maintenance of buildings | 15000 | 15000 | 39212 |
| *I* | Farmers’ Field School | 15000 | 15000 | 22388 |
| *j* | Extension Activities | 10000 | 10000 | 49693 |
| *K* | Integrated Farming System (IFS) | 10000 | 10000 | 41775 |
| *L* | NIFTD | 20000 | 20000 | 49987 |
| *M* | Library | 0 | 0 | 5000 |
| **25.1** | **Total Recurring (A)** |  |  |  |
| **25.2** | **Non-Recurring Contingencies** | 0 | 0 | 0 |
| 25.2.1 | **Works** | 0 | 0 | 0 |
| 25.2.2 | **Equipments including SWTL & Furniture** | 0 | 0 | 0 |
| 25.2.3 | **Vehicle** (Four wheeler/Two wheeler, please specify) | 0 | 0 | 0 |
| 25.2.4 | **Library** | 0 | 0 | 0 |
| **25.2** | **Total Non Recurring (B)** | **0** | **0** | **0** |
| **25.3** | **REVOLVING FUND (C)** | 0 | 0 | 0 |
| **25.4** | **GRAND TOTAL (A+B+C)** | **7555000** | **7555000** | **7695386** |

**26. Details of Budget Estimate (2015-16) based on proposed action plan**

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Particulars** | **BE 2015-16 proposed (Rs.)** |
| **26.1** | **Recurring Contingencies** |  |
| 26.1.1 | **Pay & Allowances** | 9050000 |
| 26.1.2 | **Traveling allowances** | 200000 |
| 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) | 350000 |
| *B* | POL, repair of vehicles, tractor and equipments | 350000 |
| *C* | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained) | 150000 |
| *D* | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | 150000 |
| *E* | Frontline demonstration | 319500 |
| *F* | On farm testing | 60000 |
| *G* | Training of extension functionaries | 50000 |
| *H* | Integrated Farming System (IFS) | 50000 |
| *I* | Extension activities | 75000 |
| *J* | Farmers Field School | 30000 |
| *K* | Maintenance of building | 200000 |
| *L* | Library (Purchase of Journal, Periodicals, News Paper & Magazines) | 15000 |
| *M* | National Incentive on Fodder technology Demonstration (NIFTD) | 50000 |
| *26.1* | **TOTAL Recurring Contingencies** | **11099500** |
| **26.2** | **Non-Recurring Contingencies** |  |
| 26.2.1 | **Works**   1. Road Formation 2. Micro Irrigation systems | 1000000  200000 |
| 26.2.2 | **Equipments including SWTL & Furniture**   1. Farm Implements 2. Computers with Accessories 3. Generator | 500000  200000  500000 |
| 26.2.3 | **Vehicle** (Four wheeler) - **Jeep** | 1000000 |
| 26.2.4 | **Library** (Purchase of assets like books & journals) | 25000 |
| **26.2** | **TOTAL Non-Recurring Contingencies** | **3425000** |
| **26.3** | **REVOLVING FUND** | **-** |
| **26.4** | **GRAND TOTAL** | **14524500** |