**ICAR-ATARI, ZONE – XI, HEBBAL, BENGALURU**

###### ACTION PLAN OF KVK-SHIVAMOGGA FOR 2019-20

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

|  |  |  |  |
| --- | --- | --- | --- |
| 1.1 | Name and address of KVK with  phone, fax and e-mail ID | : | ICAR-Krishi Vigyan Kendra,  Savalanga Road, Navile,  SHIVAMOGGA-577 204. Karnataka  Tel. : 08182-267017  E-mail : [kvk.shivamogga@icar.gov.in](mailto:kvk.shivamogga@icar.gov.in), shimogakvk@gmail.com |
| 1.2 | Name and address of host organization | : | University of Agricultural and Horticultural Sciences,  Savalanga Road, Shivamogga-577 204. Karnataka  Phone : 08182-267001  Fax : 08182-298008  E-mail : [vcuahss2014@gmail.com](mailto:vcuahss2014@gmail.com)  Website : www.uahs.in |
| 1.3 | Year of sanction | : | 1999 |
| 1.4 | Website address of KVK and date of last update | : | Website is under progress |

**2. Details of staff as on date : 31-03-2019**

| **Sl.**  **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 | Senior Scientist & Head | Dr. B.C. Hanumanthaswamy | Agril. Entomology | 37400-67000 | 9000 | 22-12-2011 | Permanent |
| 2.2 | Scientist | Mr. M. Basavaraja | Agronomy | 15600-39100 | 8000 | 01-04-2018 | Permanent |
| 2.3 | Scientist | Dr. Jyoti M. Rathod | Home Science | 15600-39100 | 8000 | 12-03-2007 | Permanent |
| 2.4 | Scientist | Dr. M. Ashok | Animal Science | 15600-39100 | 8000 | 18-05-2007 | Permanent |
| 2.5 | Scientist | Dr. Sahana. S | Agril. Extension | 15600-39100 | 8000 | 31-03-2018 | Permanent |
| 2.6 | Scientist | Dr. Sarvajna B. Salimath | Soil Science | 15600-39100 | 7000 | 31-03-2018 | Permanent |
| 2.7 | Scientist | Dr. Nagarajappa Adivappar | Horticulture | 15600-39100 | 7000 | 31-03-2018 | Permanent |
| 2.8 | Programme Assistant (Lab) | Dr. Nagaraja, R. | Programme Assistant (Lab) | 9300-34800 | 4600 | 23-10-2010 | Permanent |
| 2.9 | Programme Assistant (Computer) | Mrs. B. S. Geetha | Programme Assistant (Computer) | 9300-34800 | 4600 | 22-01-2011 | Permanent |
| 2.10 | Farm Manager | **VACANT** | | | | | |
| 2.11 | Accountant | Mrs. Jyothi H. | Assistant | 30350-58250 | - | 11-02-2018 | Permanent |
| 2.12 | Stenographer | **VACANT** | | | | | |
| 2.13 | Driver (Jeep) | Mr. N. Gopala | Driver (Jeep) | 21400-42000 | - | 16-08-2012 | Permanent |
| 2.14 | Driver (Tractor) | Mr. K. H. Mohan | Driver (Tractor) | 27650-52650 | - | 20-10-2008 | Permanent |
| 2.15 | Supporting staff 1 | **VACANT** | | | | | |
| 2.16 | Supporting staff 2 | Mr. T. Chikkaiah | Cook cum caretaker | 18600-32600 | - | 22-11-2008 | Permanent |

**3. Details of SAC meeting conducted during 2018-19 : 12th SAC Conducted on 12-12-2017**

| **Date** | **Major recommendations** | **Status of action taken in brief** | | | | | | | | | | | | | | | | | | | | | | | | | | | **Reasons for no actions, if any** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1. Suggested to produce large quantity of quality seedlings of areca, mango and papaya. | Produced and sold the quality seedlings of papaya 2300, drumstick 3800 and curry leaves 800 to the farmers. Raised the nursery of 1000 Nos. of Areca seedlings and 1000 nos. of coconut seedlings. | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
| 1. Suggested to take programmes on acid soil management. | Conducted training programmes on Acid Soil management | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Sl. No.** | | **Date** | | | **Title** | | | | | | | | | | | **Place** | | | | | | | **NoP.** | | | |
| 1. | | 02-01-2018 | | | Soil testing and acid soil management | | | | | | | | | | | KVK, Shivamogga | | | | | | | 32 | | | |
| 2. | | 03-01-2018 | | | Problematic soils and its management | | | | | | | | | | | KVK, Shivamogga | | | | | | | 38 | | | |
| 3. | | 04-01-2018 | | | Integrated nutrient management in areca | | | | | | | | | | | KVK, Shivamogga | | | | | | | 11 | | | |
| 4. | | 03-02-2018 | | | Soil sampling and testing | | | | | | | | | | | KVK, Shivamogga | | | | | | | 44 | | | |
| 5. | | 08-01-2019 | | | Importance and management of micro-nutrient in soil | | | | | | | | | | | KVK, Shivamogga | | | | | | | 46 | | | |
| 6. | | 22-02-2019 | | | Role and importance in soil health in agriculture | | | | | | | | | | | KVK, Shivamogga | | | | | | | 22 | | | |
| Advisories on acid soil management were given to 552 no. of farmers who were visited to KVK and also advisories were given over phone and during field visits. | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | 1. Suggested to conduct more number of trainings on Bee keeping, Mushroom cultivation and protected cultivation. | The following on and off campus training programmes were conducted during the period. | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
| **Sl. No.** | | **Date** | | | **Title** | | | | | | | | | | | | **Place** | | | | | | **NoP.** | | | |
| 1. | | 08-01-2018 | | | Protected cultivation | | | | | | | | | | | | KVK, Shivamogga | | | | | | 65 | | | |
| 2. | | 09-01-2018 | | | Mushroom cultivation and value addition | | | | | | | | | | | | Shikaripura | | | | | | 68 | | | |
| 3. | | 23-07-2018 to  25-07-2018 | | | Bee keeping | | | | | | | | | | | | KVK, Shivamogga | | | | | | 30 | | | |
| 4. | | 22-01-2018 to  31-01-2018 | | | Bee keeping | | | | | | | | | | | | KVK, Shivamogga | | | | | | 30 | | | |
| 5. | | 17-09-2018 | | | Flower cultivation | | | | | | | | | | | | KVK, Shivamogga | | | | | | 29 | | | |
| 6. | | 28-01-2019 to  06-02-2019 | | | Bee Keeping | | | | | | | | | | | | KVK, Shivamogga | | | | | | 30 | | | |
| 7. | | 21-11-2018 | | | Subsidiary enterprises for enhancing farmers' income - Mushroom Cultivation, Bee Keeping - Vermi Compost | | | | | | | | | | | | KVK, Shivamogga | | | | | | 119 | | | |
| 8. | | 20-03-2018 | | | Protected cultivation | | | | | | | | | | | | KVK, Shivamogga | | | | | | 28 | | | |
| 9. | | 26-03-2018 | | | Protected cultivation | | | | | | | | | | | | KVK, Shivamogga | | | | | | 31 | | | |
| The following are the details delivered as lecture on protected cultivation of flowers, vegetables and raising of nursery seedlings during the programmes organized by line Departments, NGOs and other institutions. | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
| **Sl. No.** | | | **Date** | | | **Title** | | | | | | | | | | | | | **Place** | | | | | | | **NoP** |
| 1. | | | 18-12-2017 | | | Flower cultivation | | | | | | | | | | | | | Bio-centre, Shivamogga | | | | | | | 25 |
| 2. | | | 19-12-2017 | | | Protected cultivation | | | | | | | | | | | | | Ripponpet | | | | | | | 124 |
| 3. | | | 20-12-2018 | | | Nursery techniques in horticulture crops | | | | | | | | | | | | | Hosanagara | | | | | | | 185 |
| 4. | | | 27-12-2018 | | | Protected cultivation in flower crops | | | | | | | | | | | | | Kommanal | | | | | | | 123 |
| 5. | | | 29-12-2017 | | | Production technology of coconut | | | | | | | | | | | | | Puradalu | | | | | | | 118 |
| 6. | | | 08-01-2018 | | | Protected cultivation | | | | | | | | | | | | | KVK, Shivamogga | | | | | | | 9 |
|  | 1. Suggested to conduct training programmes on processing and value addition in maize. | Conducted training programme on 14-11-2018 at KVK, Shivamogga on ‘Value addition to millets and cereals to increase economical status to 62 participants. | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
| 1. Suggested to take training programmes on weed control | In all training programmes under Integrated Crop Management given information on Intercultural operations along with weed control. On 26-06-2018 conducted training programme on ‘Weed management in maize and paddy’ at Sunnadakoppa, Shikaripura Taluk to the 85 farmers. | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
| **Sl. No.** | **Date** | | | | **Title** | | | | | | | | | | | | | | **Place** | | | | | **NoP** | | |
| 1. | 15-11-2018 | | | | Integrated crop management in paddy | | | | | | | | | | | | | | KVK, Shivamogga | | | | | 50 | | |
| 2. | 11-12-2018 | | | | Weed management in Paddy | | | | | | | | | | | | | | KVK, Shivamogga | | | | | 51 | | |
| 3. | 15-01-2019 | | | | Integrated crop management in green gram | | | | | | | | | | | | | | KVK, Shivamogga | | | | | 42 | | |
| 4. | 16-01-2019 | | | | Integrated crop management in arecanut of maidan areas | | | | | | | | | | | | | | KVK, Shivamogga | | | | | 11 | | |
| 5. | 18-01-2019 | | | | Integrated crop management in green gram | | | | | | | | | | | | | | Harohittalu,  Hosanagara | | | | | 32 | | |
| 6. | 19-01-2019 | | | | Integrated crop management in arecanut | | | | | | | | | | | | | | Nedaravalli,  Sagara | | | | | 23 | | |
|  | 1. Suggested to creat awareness among farmers regarding management of Hidimundige / Band disorder of arecanut. | Created awareness about management of Hidimundige / Band disorder of arecanut in the following training programmes, Krishi Abhiyana, Seminars conducted by KVK and Line departments | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
| **Sl. No.** | **Date** | | | | **Title** | | | | | | **Place** | | | | | | | | | | | | | **NoP** | | |
| 1. | 23-06-2018 | | | | Integrated Pest Management in areca | | | | | | Shikaripura | | | | | | | | | | | | | 338 | | |
| 2. | 15-06-2018 | | | | Integrated Crop Management in areca - Krishi Abhiyan | | | | | | Hiriyur, Bhadravathi Tq | | | | | | | | | | | | | 220 | | |
| 3. | 25-06-2018 | | | | Integrated Nutrient Management in arecanut | | | | | | Hosuru, Shikaripura | | | | | | | | | | | | | 76 | | |
| 4. | 02-07-2018 to  04-07-2018 | | | | Intercropping in arecanut | | | | | | KVK, Shivamogga | | | | | | | | | | | | | 30 | | |
| 5. | 02-07-2018 | | | | Integrated Nutrient Management in areca | | | | | | Shiralakoppa | | | | | | | | | | | | | 79 | | |
| 6. | 11-09-2018 | | | | Integrated Crop Management in areca | | | | | | KVK, Shivamogga | | | | | | | | | | | | | 28 | | |
| 7. | 10-12-2018 | | | | Integrated Crop Management in areca | | | | | | Nimbegondi | | | | | | | | | | | | | 63 | | |
| 8. | 16-01-2019 | | | | Integrated Crop Management in areca | | | | | | KVK, Shivamogga | | | | | | | | | | | | | 20 | | |
| 9. | 19-01-2019 | | | | Integrated Crop Management in areca | | | | | | KVK, Shivamogga | | | | | | | | | | | | | 23 | | |
| 10. | 15-02-2019 | | | | Integrated Crop Management in areca | | | | | | KVK, Shivamogga | | | | | | | | | | | | | 17 | | |
|  | 1. Suggested to takeup studies for comparision of qualities of areca husk compost with other compost. | OFT on ‘Effect of areca husk compost with other compost’ has been taken on French bean in an area of 0.25 ha during the year 2018-19. | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
|  | 1. Suggested to analyze plant samples along with soil and water samples. | Received the digestion chamber recently, after installation the plant, manure and compost samples will be analyzed. | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
|  | 1. Suggested to provide information to farmers on use of organic pesticides for the control of insect pests and diseases | KVK has organized Progressive farmers to farmers training programmes funded by GoK on Use of Bio-pesticides for pest and disease management in crops and participated farmers were taken to exposure visits. Other training programmes were also conducted on the following topics; | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
| **Sl. No.** | **Date** | | | | | | | | **Title** | | | | **Place** | | | | | | | | | | | | **NoP** | |
| 1. | 10-01-2018 | | | | | | | | Use of Bio-pesticides for pest and disease management in crops | | | | KVK, Shivamogga | | | | | | | | | | | | 52 | |
| 2. | 05-02-2018 to  07-02-2018 | | | | | | | | Use of Bio-pesticides and Bio-fertilizers in vegetable crops | | | | KVK, Shivamogga | | | | | | | | | | | | 30 | |
| 3. | 27-06-2018 to  29-06-2018 | | | | | | | | Use of Bio-pesticides and Bio- fertilizers in vegetable crops | | | | KVK, Shivamogga | | | | | | | | | | | | 30 | |
| 4. | 14-02-2019 | | | | | | | | Use of bio-pesticides in vegetable crops | | | | KVK, Shivamogga | | | | | | | | | | | | 26 | |
| 5. | 28-06-2018 to  29-06-2018 | | | | | | | | ‘Use of Bio-pesticides and Bio- Fertilizers in vegetable crops’ participants were taken to exposure visit to Nimbegondi of Shikaripura Taluk, and Shettihalli of Shivamogga Taluk | | | | KVK, Shivamogga | | | | | | | | | | | | 30 | |
|  | 1. Suggested to provide information to farmers using information communication technologies | Provided information to farmers using AV AIDs, KIOSK in all training programmes conducted at KVK. Given short messages through Mobile Advisory Services to registered 2408 farmers. Given information on ICT in the following trainings and workshops. | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
| **Sl. No.** | | | **Date** | | | | | **Title** | | | | | | **Place** | | | | | | | | | **NoP** | | | |  |
| 1. | | | 12-01-2018 | | | | | Role of KVKs in extension activities | | | | | | KVK, Shivamogga | | | | | | | | | 132 | | | |
| 2. | | | 04-12-2018 | | | | | Marketing strategies for agriculture produce | | | | | | KVK, Shivamogga | | | | | | | | | 79 | | | |
| 3. | | | 24-11-2018 | | | | | ICT and marketing strategies in agriculture produce | | | | | | KVK, Shivamogga | | | | | | | | | 137 | | | |
| 4. | | | 10-12-2018 | | | | | Information and communication technology | | | | | | KVK, Shivamogga | | | | | | | | | 82 | | | |
|  | 1. Suggested to undertake impact studies after conduct of Vocational trainings. | Impact study on training programme on Mushroom cultivation was published in International Journal of Current Microbiology and Applied Sciences, 2017. | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
|  | 1. Suggested to create awareness among farmers on fodder crops viz., legumes and fodder trees. | Created the awareness among farmers in the following training programmes and method demonstrations. | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
| **Sl. No.** | | | | **Date** | | | **Title** | | | | | | | | **Place** | | | | | | | | **NoP** | | | |  |
| 1. | | | | 21-06-2018 | | | Agronomic practices of fodders | | | | | | | | Maluru | | | | | | | | 28 | | | |
| 2. | | | | 22-06-2018 | | | Fodder crop production | | | | | | | | KVK, Shivamogga | | | | | | | | 39 | | | |
| 3. | | | | 02-07-2018 | | | Green manure production and uses | | | | | | | | Maluru, Shikaripura | | | | | | | | 20 | | | |
| 4. | | | | 15-01-2019 | | | Fodder production technology | | | | | | | | Harogoppa | | | | | | | | 24 | | | |
| 5. | | | | 26-01-2019 | | | Cattle feed preparation | | | | | | | | Puradalu, Beluru | | | | | | | | 15 | | | |
| 6. | | | | 30-01-2019 | | | Cattle feed preparation | | | | | | | | Gudamaghatta | | | | | | | | 16 | | | |
| 7. | | | | 05-02-2019 | | | Cattle feed preparation | | | | | | | | Togarsi | | | | | | | | 14 | | | |
| 8. | | | | 05-02-2019 | | | Cattle feed preparation | | | | | | | | Sampagodu | | | | | | | | 15 | | | |
| 9. | | | | 21-02-2019 | | | Silage preparation in plastic drums | | | | | | | | KVK, Shivamogga | | | | | | | | 5 | | | |
| 10. | | | | 24-02-2018 | | | Dairy farming and fodder crops | | | | | | | | DATC, Bhadravathi | | | | | | | | 50 | | | |
| * Taken 20 units of Frontline Demonstration on ‘Establishment of Fodder Cafeteria’ at Shiralakoppa. * Sold 180 kgs. of CoFS-31 fodder seeds to 216 farmers at KVK, Shivamogga | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | 1. Suggested to conduct training programmes in collaboration with line departments. | Conducted the following programmes in collaboration with line departments. | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
| **Sl. No.** | | | | **Date** | | | **Title** | | | | | **Name of the Department** | | | | | | | | | | | | | | |
| 1. | | | | 27-01-2018 | | | Avian influenza – Technical seminar | | | | | Veterinary Department, Veterinary college, Shivamogga | | | | | | | | | | | | | | |
| 2. | | | | 27-07-2018 | | | Technical Seminar on Nutritional perspective for augmenting livestock production - An approach to double the farmers' income | | | | | Veterinary Department, Veterinary college, Shivamogga | | | | | | | | | | | | | | |
| 3. | | | | 17-12-2018 | | | Seminar on Quality control of cattle and poultry feeds and vetico legal sample collection procedure | | | | | Veterinary Department, Veterinary college, Karnataka | | | | | | | | | | | | | | |
| 4. | | | | 27-08-2018 | | | Information Network for Animal productivity and Health (INAPH)  Awareness Campaign | | | | | Veterinary Department, Veterinary college, Shivamogga | | | | | | | | | | | | | | |
| 5. | | | | 20-11-2018 to 24-11-2018 | | | Technology week-2018 | | | | | Department of Agriculture, Department of Horticulture, NGOs, Veterinary College, Veterinary Department, Bio-Centre, Shivamogga, APMC, Department of Small scale industries and commerce | | | | | | | | | | | | | | |
| 6. | | | | Projects funded by GoK viz., Intercrops in areca, Horticulture Nursery, Hi-technology horticulture, Hydroponic, Protection technology of ginger, ICM in arecanut, use of bio-pesticides in vegetable crops were implemented with collaboration with line Departments. | | | | | | | | | | | | | | | | | | | | | | |
| 7. | | | | Participated as resource persons and delivered lecture on different topics in Krishi Abhiyana (7 Nos.) and in Bi-monthly workshops conducted by Line Departments, SKDRDP and NGOs. | | | | | | | | | | | | | | | | | | | | | | |
| 1. Suggested to upload short films / success stories about two minutes on Integrated Farming System to the KVK portal. | Short films related to training programmes, special events viz., Swacch Bharath Abhiyan-2 Nos., Vigilance Awareness Week, farmers’ opinion and feed back about IFS were uploaded to KVK portal. | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
| 1. Suggested to undertake impact studies after completion of OFT and FLD programme. | Impact studies on FLDs on Root Grub in arecanut, Groundnut variety GPBD-4, French Bean variety Arka Sharath, ICM in paddy, Paddy mechanization were conducted. | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | 1. Suggested to take seed production in ‘Arka Sharath’ variety of French bean. | Conducted FLDs and training programmes on vegetable and seed production of ‘Arka Sharath’ Variety of French Bean and linked the farmers to IIHR, Bengaluru for seed procurement. | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
|  | 1. Suggested to conduct more and more number of trainings for women on value addition through method demonstrations. | Conducted the following on campus and off campus training programmes on value addition through method demonstrations | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Sl. No.** | | | | **Date** | | | **Title** | | | | | | | | | | | | | | **Place** | | | | **NoP.** | |
|  | | | | 14-12-2017 | | | Processing and value addition in millets | | | | | | | | | | | | | | Gonibeedu | | | | 33 | |
|  | | | | 14-12-2017 | | | Processing and value addition in millets and importance of nutritional garden | | | | | | | | | | | | | | Timlapura | | | | 21 | |
|  | | | | 15-12-2017 | | | Processing and value addition in millets and importance of nutritional garden | | | | | | | | | | | | | | Agasanahalli | | | | 24 | |
|  | | | | 28-12-2017 | | | Value addition in maize | | | | | | | | | | | | | | KVK, Shivamogga | | | | 46 | |
|  | | | | 31-07-2018 to  01-08-2018 | | | Value addition in mango to women SHGs for entrepreneurs development | | | | | | | | | | | | | | KVK, Shivamogga | | | | 48 | |
|  | | | | 14-11-2018 | | | Value addition to millets and cereals to increase economical status | | | | | | | | | | | | | | KVK, Shivamogga | | | | 62 | |
|  | | | | 16-11-2018 | | | Value addition in milk | | | | | | | | | | | | | | Barandur, Bhadravathi Tq | | | | 29 | |
|  | | | | 23-11-2018 | | | Nutritional importance and value addition in millets | | | | | | | | | | | | | | KVK, Shivamogga | | | | 131 | |
|  | | | | 08-01-2018 | | | Mushroom cultivation and value addition | | | | | | | | | | | | | | Shikaripura | | | | 65 | |
|  | | | | 09-01-2018 | | | Mushroom cultivation and value addition | | | | | | | | | | | | | | | Shikaripura | | | 68 | |
|  | | | | 17-01-2018 | | | Importance of nutrition garden and KVK activities | | | | | | | | | | | | | | | KVK, Shivamogga | | | 29 | |
|  | 1. Conduct the training programmes on nutrition garden through self help groups and suggested to conduct programmes for women on agriculture and allied activities in collaboration with the departments. | Conducted the following training programmes on nutrition garden in collaboration with Departments, NGOs to the extension functionaries, SHG members. | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
| **Sl. No.** | | | | **Date** | | | **Title** | | | | | | | | | | | | | **Place** | | | | | **NoP.** | |
|  | | | | 14-12-2017 | | | Processing and value addition in millets and importance of nutritional garden | | | | | | | | | | | | | Timlapura | | | | | 21 | |
|  | | | | 15-12-2017 | | | Processing and value addition in millets and importance of nutritional garden | | | | | | | | | | | | | Agasanahalli | | | | | 24 | |
|  | | | | 20-06-2018 | | | Model Kitchen Garden | | | | | | | | | | | | | KVK, Shivamogga | | | | | 117 | |
|  | | | | 19-02-2019 | | | Establishment and maintenance of Terrace Garden and Kitchen garden for extension functionaries | | | | | | | | | | | | | KVK, Shivamogga | | | | | 32 | |
|  | | | | 06-03-2019 | | | Establishment and maintenance of Terrace Garden and Kitchen garden for extension functionaries | | | | | | | | | | | | | KVK, Shivamogga | | | | | 31 | |
|  | | | | 17-01-2018 | | | Importance of nutrition garden and KVK activities | | | | | | | | | | | | | KVK, Shivamogga | | | | | 29 | |
|  | 1. Suggested to conduct more number of off campus training programmes | Totally 22 off campus training programmes were conducted by involving 1172 farmers, farm women, Youths and SHG members in different villages of Shivamogga district. | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
| 1. Suggested to conduct integrated farming system demonstrations in small farmers’ fields. | Selected 14 small farmers from each taluk of Shivamogga district to implement IFS demonstrations. Given 8 No. of training programmes to them and beneficiaries were taken to exposure visit (4 Nos.) to acquaint with different IFS models followed by other progressive farmers at different places of Karnataka state. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Suggested to conduct more number of trainings on animal husbandry. | Conducted the following on and off campus training programmes, method demonstrations on animal husbandry and Participated as resource persons in different programmes and delivered lecture on live stock and related topics to farmers, farm women, youths and extension functionaries. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Sl. No.** | | | | **Date** | | | | | | **Title** | | | | | | | | **Place** | | | | | | | **NoP.** | |
|  | | | | 12-01-2018 | | | | | | Backyard poultry farming | | | | | | | | Shivamogga | | | | | | | 10 | |
|  | | | | 02-07-2018 | | | | | | Green fodder production technology and uses | | | | | | | | Maluru | | | | | | | 20 | |
|  | | | | 11-07-2018 to 13-07-2018 | | | | | | Improved animal husbandry practices to increase farmers' income | | | | | | | | KVK, Shivamogga | | | | | | | 56 | |
|  | | | | 04-10-2018 | | | | | | Scientific sheep rearing | | | | | | | | KVK, Shivamogga | | | | | | | 14 | |
|  | | | | 03-12-2018 to 05-12-2018 | | | | | | Scientific sheep and Poultry farming | | | | | | | | KVK, Shivamogga | | | | | | | 14 | |
|  | | | | 04-12-2018 | | | | | | Estrous synchronization methods and their advantages | | | | | | | | Sagar | | | | | | | 26 | |
|  | | | | 15-01-2019 | | | | | | Cattle feed preparation | | | | | | | | Harogoppa | | | | | | | 24 | |
|  | | | | 26-01-2019 | | | | | | Cattle feed preparation | | | | | | | | Puradalu | | | | | | | 15 | |
|  | | | | 21-02-2019 | | | | | | Silage preparation in plastic drum | | | | | | | | KVK, Shivamogga | | | | | | | 5 | |
|  | | | | 11-01-2018 | | | | | | Bi-monthly Workshop – Fodder production | | | | | | | | KVK, Shivamogga | | | | | | | 60 | |
|  | | | | 14-01-2018 | | | | | | Livestock management | | | | | | | | KVK, Shivamogga | | | | | | | 40 | |
|  | | | | 21-01-2018 | | | | | | Livestock management and entrepreneurship | | | | | | | | KVK, Shivamogga | | | | | | | 40 | |
|  | | | | 22-06-2018 | | | | | | Fodder production | | | | | | | | KVK, Shivamogga | | | | | | | 57 | |
|  | | | | 30-01-2019 | | | | | | Cattle feed preparation | | | | | | | | Gudamaghatta | | | | | | | 16 | |
|  | | | | 05-02-2019 | | | | | | Cattle feed preparation | | | | | | | | Togarsi | | | | | | | 14 | |
|  | | | | 05-02-2019 | | | | | | Cattle feed preparation | | | | | | | | Sampagodu | | | | | | | 15 | |
|  | 1. Suggested to provide preventive measures for the management of Army worm | 1. Diagnostic visit (5 Nos.) made with Department of Agriculture at different villages of Shivamogga, Shikaripura and Soraba Taluks and given control and preventive measures and given the report. 2. Information on management of Fall Army Worm was given through media viz., Radio and News paper 3. Information on management of Fall Army Worm was given during the training programmes conducted by KVK. Following are the details. | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
| **Sl. No.** | | **Date** | | | | **Title** | | | | | | | | | | | **Place** | | | | | | | | **NoP.** | |
|  | | 15-06-2018 | | | | Krishi Abhiyana | | | | | | | | | | | Hiriyur, Bhadravathi | | | | | | | | 220 | |
|  | | 28-06-2018 | | | | SRI Method of paddy cultivation | | | | | | | | | | | KVK, Shivamogga | | | | | | | | 59 | |
|  | | 29-06-2018 | | | | Krishi Abhiyana | | | | | | | | | | | Sunnadakoppa, Sagar Taluk | | | | | | | | 125 | |
|  | | 19-09-2018 | | | | Integrated farming in paddy | | | | | | | | | | | KVK, Shivamogga | | | | | | | | 21 | |
|  | | 14-11-2018 | | | | Organic cultivation practices for sustainable yield in paddy | | | | | | | | | | | KVK, Shivamogga | | | | | | | | 41 | |
|  | | 15-11-2018 | | | | Integrated crop management in paddy | | | | | | | | | | | KVK, Shivamogga | | | | | | | | 50 | |
|  | | 07-12-2018 | | | | Direct Seeded rice cultivation | | | | | | | | | | | KVK, Shivamogga | | | | | | | | 16 | |
|  | | 11-12-2018 | | | | Weed management in Paddy | | | | | | | | | | | KVK, Shivamogga | | | | | | | | 51 | |
| 1. Enquired about green gram seed availability at University since there is greater demand. | Green gram seeds available at Seed unit at Kathalagere Research Station of University of Agricultural and Horticultural Sciences, Shivamogga. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Suggested to make an arrangement for water testing laboratory to undertake fishery science activitie and suggested to conduct training programmes on fisheries in collaboration with department of fisheries. | (a) Implemented the FLD on **Demonstration of ‘Amur Carp’ in poly-culture of fish during the year 2018-19.** Proposed **FLD on** Demonstration of *Tilapia*  fish in composite fish culture for the year 2019-20  (b) During technology week on 22-11-2018 information on Livestock entrepreneurship for rural livelihood security was given to 166 farmers, farm women, Youths and SHG members of Shivamogga district. | | | | | | | | | | | | | | | | | | | | | | | | | | | 1. With the existing SWTL facility at KVK, analysis of water for fishery activity is not possible |
|  | 1. Suggested to conduct training programmes and create awareness among farmers on sericulture in collaboration with department. |  | | | | | | | | | | | | | | | | | | | | | | | | | | | In Shivamogga district Sericulture area is very less. Hence, no programmes were conducted |
|  | 1. Suggested to takeup precautionary measures against fungal infection of Areca leaf sheath bio-products during sorage**.** | In Zonal Research and Extension Programme (ZREP) workshop given feedback to research system regarding precautionary measures against fungal infection of Areca leaf sheath bio-products during sorage. | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
|  | 1. Suggested to create awareness among farmers regarding the assistance / benefits available from department of small scale industries through training programmes. | Information was given on the benefits available from different departments during various training programmes conducted at KVK. | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
|  | 1. Suggested to conduct more number of training programmes by visiting progressive farmers plot and Suggested to conduct training programmes on IFS so that farmers can double their income by adopting IFS | Conducted Progressive farmers to farmers trainings funded by GoK on different topics and on 2nd and 3rd day participant farmers were taken to exposure visit to Progressive farmers' fields. And conducted training programmes on Integrated Farming System and IFS beneficiary farmers were taken exposure visit to different places of Karnataka state. The details are as follows; | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
| **Sl. No.** | | | | **Date** | | | | | | **Title** | | | | | | | | | | | | | | | | **NoP** |
| 1. | | | | 05-02-2018 to 07-02-2018 | | | | | | Progressive farmers to farmers training programme on use of Bio-fertilizers and Bio-pesticides in vegetable crops | | | | | | | | | | | | | | | | 30 |
| 2. | | | | 27-06-2018 to 29-06-2018 | | | | | | Progressive farmers to farmers training programme on use of bio-fertilizers and Bio- pesticides in vegetables | | | | | | | | | | | | | | | | 30 |
| 3. | | | | 02-07-2018 to 04-07-2018 | | | | | | Progressive farmers to farmers training programme on Intercrops in arecanut garden | | | | | | | | | | | | | | | | 30 |
| 4. | | | | 23-07-2018 to 25-07-2018 | | | | | | Progressive farmers to farmers training programme on Bee keeping | | | | | | | | | | | | | | | | 30 |
| 5. | | | | 20-06-2018 | | | | | | Group meeting on IFS | | | | | | | | | | | | | | | | 11 |
| 6. | | | | 11-09-2018 | | | | | | Integrated Farming System | | | | | | | | | | | | | | | | 28 |
| 7. | | | | 16-07-2018 to 19-07-2018 | | | | | | Exposure visit under IFS programme – to Mugutihalli, Mudigere Horticulture college and KVK of Chikkamagaluru district, Ponnampet college, Piggery unit, Bee keeping unit, Fishery, Agro Forestry, Biofuel unit at Ponnampet, Coffee estate at Chandanahalli KVK at Sutturu, Lingadapura and Devagahalli at Mysore, Chikkode at Pandavapura, Nursery plot at S.R.Patna | | | | | | | | | | | | | | | | 17 |
| 8. | | | | 30-07-2018 to 01-08-2018 | | | | | | Farmers exposure visit under IFS programme - Banavasi, KVK and Forestry college Sirsi and Hemavadi, Dharwad Arabhavi and Gokak | | | | | | | | | | | | | | | | 15 |
| 9. | | | | 17-11-2018 to 19-11-2018 | | | | | | Farmers exposure visit under IFS programme (State government) - Bengaluru - Krishimela-2018, Chintamani and Kolar, Tipaturu and Ararikere | | | | | | | | | | | | | | | | 18 |
| 10. | | | | 10-02-2019 to 12-02-2019 | | | | | | Farmers exposure visit under IFS programme (State government) – Mangalore, Udupi, Brahmavara | | | | | | | | | | | | | | | | 18 |
|  | 1. Suggested to increase the duration of training programmes and Suggested to provide information on weather based agricultural activities. | Conducted 2 days (1 No.), three days (4 Nos.) and 10 days (1 No.) training programmes and planned to conduct 30 days Poultry Farming Training programme during the year 2018-19 and during Bi-monthly workshop extension workers of Agriculture Department and KVK scientists were advised to disseminate information on weather based agricultural activities to the farmers during their extension activities and at RSKs. | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
|  | 1. Suggested to conduct more training programmes for improvement of social and financial status of women organisations. | Popularization of value added mango products to women SHGs and Demonstration and popularization of finger millet Jaggery Cookies were taken as Entrepreneurship Development programmes during 2018-19 and conducted trainings on value added product preparations to enhance the economical status of women SHGs.  During Technology Week-2018 under the theme ‘Doubling the farmers’ incomeorganized workshop on (1) Soil and water conservation in agriculture and horticultural crops (2) Subsidiary enterprises for enhancing farmers' income - Mushroom Cultivation, Bee Keeping - Vermi Compost (3) Livestock entrepreneurship for rural livelihood security - Poultry - Sheep - goat farming (4) Nutritional importance and value addition in millets (5)  ICT and marketing strategies in agriculture produce to enhance the financial status of the farming community.  In all the training programmes conducted by KVK, given information to farmers and farm women to adopt IFS, value addition, bee keeping, dairy farming, backyard poultry farming, sheep and goat rearing activities to get regular income to enhance their economical status. | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
|  | 1. Suggested to conduct off-campus training programme on value addition of milk. | On 16-01-2018 at Baranduru, Bhadravathi Taluk conducted Value addition in milk training programme to 29 farm women. | | | | | | | | | | | | | | | | | | | | | | | | | | |  |

**4. Details of operational areas proposed during 2019-20**

| **Clusters** | **Major crops & enterprises being practiced in cluster villages** | **Prioritized problems in these crops/ enterprise that limit yield and income** | **Extent of area (ha/No.) affected by the problem in the village** | **Proposed intervention (OFT, FLD, Training, extension activity etc.)\*** |
| --- | --- | --- | --- | --- |
| Sominakoppa  Shivamogga Tq. | Arecanut, Banana, Maize, Red gram, vegetable crops; Ridge gourd, Loose flowers, Fodder crops, Fisheries, Poultry, Dairy farming | * Lack of Knowledge on high yielding and disease resistant hybrids or varieties in vegetable and field crops * Nutrient deficiency, Nut splitting, inflorescence die-back, inflorescence caterpillar and Hidimundige in Arecanut * Infestation of Stem borer and Army worm in Maize * Less awareness of value addition in Maize * Slow degradation of areca husk, farmers are throwing and burning in public places. * Less awareness on areca husk composting method (1.25 t/ha Areca husk compost available) and unaware of Nutrients composition in areca husk compost * Non availability of required quantity and quality of FYM * High cost for FYM * Pseudostem Weevil, Sigatoka Leafspot and Panama Wilt in banana * Lack of new flower crops for garland making * Lack of awareness on new varieties which affects the growth and productivity in composite fish culture * Low milk production and quality problems in dairy farming due to imbalanced energy and protein * Lack of awareness on new varieties in fisheries affects the growth and productivity | 70  48  36  41  74  74  7  7  11 unit  51 unit  11 unit | OFT, FLD, Trainings. Field visits, Method demonstrations, Field days, Group discussions, Advisory services |
| Nimbegundi | Paddy, Arecanut, Ginger , Sunflower, Ground nut, Green gram, Black gram, vegetable crops; Tomato, Chilli, ,Leafy vegetables, ,Fodder crops, Poultry, Dairy farming | * Low yield in paddy due to improper nutrient management and pest and disease incidence (Stem borer, leaf roller, blast, sheath blight) * Nutrient deficiency, Nut splitting, inflorescence die-back, inflorescence caterpillar, Hidimundige in Arecanut * Indiscriminate use of fertilizers and improper pest and disease management in ginger * Lack of leaf rust resistant and multicut variety in Amaranthus * Low yield and Less adoption of suitable hybrids in Chilli * Sucking pests incidence, Indiscriminate use of pesticides, Low yield in tomato * Low yield in ground nut due to higher pest and disease incidence * Boron and zinc deficiency, leaf spot, bud necrosis, powdery mildew and low yield in sunflower * In Cattles, Infertility due to non availability of timely artificial insemination in remote areas. Decreased fertility and less number of calves per animal in the life span. * Non adoption of short duration pulse varieties for paddy fallows | 45  44  57  3  8  10  5  7  84 units  5 | OFT, FLD, Trainings. Field visits, Method demonstrations, Field days, Group discussions, Advisory services |
| Thirththalli  Tanikal | Arecanut, pepper, ginger, paddy, rubber, banana, Elephant foot yam, Poultry, Dairy farming | * Low yield, Susceptible to diseases in paddy * Quick wilt, leaf rot, micro-nutrient deficiencies, Improper filling of spikes, irregular growth of berries, lower yield in pepper * Infertility due to non availability of timely artificial insemination in remote areas. Decreased fertility and less number of calves per animal in the life span in cross bred cows. * Mal Nutrition and lack of Cognitive development in Preschool Children * Need of new breed in backyard poultry to increase the rural farmers’ income | 11  39  19 unit  -  16 units | OFT, FLD, Trainings. Field visits, Method demonstrations, Field days, Group discussions, Advisory services |
| Hosanagara  Nanjuvalli | Paddy, arecanut, pepper, ginger, banana, green gram, black gram | * Low yield due to Improper nutrient management in paddy * Non adoption of short duration pulse varieties for paddy fallows * Foot rot incidence and Low yield in pepper | 10  5  19 | OFT, FLD, Trainings. Field visits, Method demonstrations, Field days, Group discussions, Advisory services |

**5.** **Technology assessment during 2019-20**

| **Sl.**  **No.** | **Crop/ enterprise** | **Prioritized problem** | **Title of intervention** | **Technology options** | **Source of technology** | **Name of critical input** | **Qty per trial (q)** | **Cost per trial (Rs.)** | **No. of trials** | **Total cost**  **(Rs.)** | **Parameters to be studied** | **Team members** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5.1 | Paddy | Low yield, Susceptible to pest and diseases, non availability of improved red rice varieties | Assessment of Red Rice Varieties | Tech.Option-1: Kempu Sanna | Farmer’s practice | Kempu Sanna paddy seeds | 7 kg. | 500 | **4** |  | 1. Yield (q/ha)  2. Productive Tillers/m2  3. Panicle length (cm)  4. Pest and Disease incidence (%)  5. B:C | Scientist (Agronomy), Scientist (Soil Science) |
| **TOTAL** | | **500** | 2000 |
| Tech.Option-2: Shreyas | KAU, Thrissur | Shreyas paddy seeds | 7 kg. | 1000 |  |
| **TOTAL** | | **1000** | 4000 |
| Tech.Option-3: Sahyadri Megha | UAHS, Shivamogga | Sahyadri Megha paddy seeds | 7 kg. | 500 |  |
| **TOTAL** | | **500** | 2000 |
| **GRAND TOTAL** | | **2000** | **8000** |
| 5.2 | Chilli | Low yield and Less adoption of suitable hybrids of Chilli | Assessment of Chilli hybrids for suitability | Tech.Option-1: Mallika | Farmers' Practice |  | | | **5** |  | 1. Yield (t/ha)  2. Pest and disease incidence (%)  3. B:C | Scientist (Horticulture), Senior Scientist and Head, Scientist (Soil Science) |
| Tech.Option-2: Arka Kyathi | IIHR, Bengaluru | Arka kyathi | 50 gm | 1250 |  |
| **TOTAL** | | **1250** | 6250 |
| Tech.Option-3: Kashi Surka | IIVR, Varanasi | Kashi Surka | 50 gm | 1500 |  |
| **TOTAL** | | **1500** | 7500 |
| KBCH-1 | 50 gm | 1250 |  |
| **TOTAL** | | **1250** | 6250 |
| **GRAND TOTAL** | | **4000** | **20000** |
| 5.3 | Ridge gourd | Low yield | Assessing the performance of Ridge gourd hybrids | Tech.Option-1: Rama | Farmers' Practice |  | | | **5** |  | 1. Yield (q/ha) 2. Pest and disease incidence (%)  3. B:C | Scientist (Horticulture), Senior Scientist and Head, Scientist (Soil Science) |
| Tech.Option-2: Arka Vikram | IIHR, Bengaluru (2016) | Arka Vikram | 800 gm | 2800 |  |
| **TOTAL** | | **2800** | 14000 |
| Tech.Option-3: CO H 1 | TNAU, Coimbatore (2018) | COH1 | 800 gm | 2500 |  |
| **TOTAL** | | **2500** | 12500 |
| **GRAND TOTAL** | | **5300** | **26500** |

**6. Frontline demonstrations during 2019-20**

| **Sl. No.** | **Category** | **Crop/ enterprise** | **Prioritized problem** | **Technology to be demonstrated** | **Name of variety** | **Name of hybrid** | **Source of technology** | **Name of critical input** | | **Qty per demo (q)** | **Cost per demo (Rs.)** | **No. of demos** | **Total cost for the**  **demo (Rs.)** | **Parameters to be studied** | **Team members** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6.1 | Cereals | Paddy | Low yield, higher pest and disease incidence | Demonstration of Paddy variety-KKP-5 | KKP-5 | - | UAHS, Shivamogga | Paddy seeds | | 25 kg | 1500 | **10** | 15000 | 1. Grain yield (q/ha)  2. Productive Tillers / m2  3. Pest and disease incidence (%)  4. B:C | Scientist (Agronomy),Scientist (Soil Science), Senior Scientist and Head |
| **GRAND TOTAL** | | | **1500** | **15000** |
|  | | |  |  |
|  |  | Paddy | * Soil test based fertilizer application (RDF-100:50:50 kg NPK/ha, ZnSO4-20 kg) * 1% 19:19:19 spray @ maximum tillering stage * 1% 13:0:45 @ grain filling stage * Bioinoculation of Effective Microbial Consortium | Integrated Nutrient Management in Rice | JGL-1798 | - | UAHS, Shivamogga | 19:19:19 | | 2 kg | 400 | **5** | 2000 | 1. Yield (q/ha)  2. Productive Tillers / m2  3. Panicle length (cm  4. Pest and Disease incidence (%)  5. B:C | Scientist (Soil Science), Scientist (Agronomy),Senior Scientist and Head |
| 13:0:45 | | 2 kg | 400 | 2000 |
| EMC (*Azospirillum + Bacillus megatorium + Frateuria aruantia*) | | 1200gm | 500 | 2500 |
| Soil Analysis Charge | | 1 + 2 samples | 450 | 1500 |
| **GRAND TOTAL** | | | **1750** | **8750** |
|  | | |  |  |
|  |  | Paddy | Stem borer, leaf roller, blast, sheath blight | * IPM-Cultural and mechanical methods * Spraying of Azadirachtin @ 2.5 ml/*l* * Application of Fipronil 0.3 G @ 10 kg/ac * Seed treatment with Carbendazim 50 WP @ 4 g/kg of seeds * Poison bait (20 kg rice bran, 2 kg jaggery,  100 ml Chlorfenopyr 10 SC) * Spraying of Propiconazole 25 EC @ 1 ml/*l* | JGL-1798 | - | UAHS, Shivamogga | Azadirachtin | | 2 *l* | 800 | **10** | 8000 | 1. Yield (q/ha) 2. Pest & disease incidence (%) 3. B:C | Senior Scientist and Head, Scientist (Soil Science), Scientist (Agronomy) |
| Carbendazim | | 500 g | 300 | 3000 |
| Fipronil | | 10 kg | 1000 | 10000 |
| Poison bait (Rice Bran + Jaggery + Chlorfenopyr) | | 20 kg + 2 kg + 100 ml | 750 | 7500 |
| Propiconazole | | 500 ml | 750 | 7500 |
| **Grand Total** | | | **3600** | **36000** |
|  | | |  |  |
| 6.2 | Millets |  |  |  |  |  |  |  | | |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | | |  |  |  |  |  |
| 6.3 | Oilseeds | Groundnut | Low yield, susceptible to wilt, higher pest and disease incidence | Introduction of Ground nut variety – GKVK-5 | GKVK – 5 |  | UAS, Bengaluru | Ground nut GKVK-5 Pods | | 80 kg | 4800 | **5** | 24000 | 1. Yield (q/ha) 2. No of Pods/ plant 3. Pest and disease incidence (%) 4. B:C | Scientist (Agronomy), Scientist (Agril. Extn), Scientist (Soil Science) |
| Bio Fertilizers | | 2 kg. | 300 | 1500 |
| Borax | | 500 gm | 150 | 750 |
| **GRAND TOTAL** | | | **5250** | **26250** |
|  |  | Sunflower | Boron and zinc deficiency,  Powdery mildew,  Leaf spot,  Bud necrosis,  Low yield | Integrated Crop Management in Sunflower |  | KBSH-53 | UAS, Bangalore | Seeds | | 2 kg | 400 | **10** | 4000 | 1. Yield (q/ha) 2. Pest and disease incidence (%) 3. Seed weight / head (g) 4. B:C | Scientist (Agronomy), Scientist (Soil Science), Senior Scientist and Head, Scientist (Agril. Exten) |
| Zinc sulphate | | 4 kg | 500 | 5000 |
| Bio-fertilizers (*Azospirillum and* PSB) and *Trichoderma* | | 2kg | 200 | 2000 |
| Borax | | 1 kg | 150 | 1500 |
| Hexaconazole | | ½ *l* | 450 | 4500 |
| Soil analysis charge | | 1 + 2 samples | 450 | 4500 |
| **GRAND TOTAL** | | | **2150** | **21500** |
| 6.4 | Pulses | Black Gram | Non adoption of short duration pulse varieties for paddy fallows | Demonstration on  BLACK GRAM variety Rashmi (LBG – 625) | LBG – 625 |  | UAHS, Shivamogga | Black gram seeds | | 8 kg | 800 | **10** | 8000 | 1. Yield (q/ha)  2. Pods / plant (No.)  3. Pest & disease incidence (%)  4. Nutrient status (kg/ha)  5. B:C | Scientist (Agril. Extn), Scientist (Agronomy), Scientist (Soil Science), Senior Scientist and Head |
| Biofertilizers (PSB + *Rhizobium*) | | 2 Kg. | 200 | 2000 |
| **GRAND TOTAL** | | | **1000** | **10000** |
|  | | |  |  |
|  |  | Red gram | Low yield, susceptible to wilt, higher pest and disease incidence | Demonstration of Red gram variety BRG-5 | BRG-5 |  | UAS, Bengaluru | Red gram BRG-5 seeds | | 3 kg | 240 | **10** | 2400 | 1. Yield (q/ha)  2. Pest & disease incidence (%)  3. B:C | Scientist (Agronomy), Scientist (Soil Science), Senior Scientist and Head |
| Bio fertilizers | | 1 kg. | 250 | 2500 |
| Profenophos 2 ml/ltr | | 1.5 ltr. | 900 | 9000 |
| **GRAND TOTAL** | | | **1390** | **13900** |
| 6.5 | Commercial crops |  |  |  |  |  |  |  | |  |  |  |  |  |  |
| 6.6 | Horticultural crops | Gaillardia | Lack of new flower crops for garland | * Demo of high yielding Gaillardia variety-DGS-1 * RDF (100:50:50 NPK kg/ha)+ FYM 15 t/ha   **Salient features of Gaillardia variety-DGS-1:**  1. Produces very attractive bigger sized, golden yellow coloured flowers with 5 to 7 whorls of petals.  2. Yield:10-12 t/ha | DGS-1 |  | UAS, Dharwad | Gaillardia seeds | | 150 gm | 600 | **10** | 6000 | 1. No. of flowers/plant 2. Yield t/ha   3. Yield/ plant (gm)  4. B:C | Scientist (Hort), Senior Scientist and Head |
| **GRAND TOTAL** | | | **600** | **6000** |
|  | | |  |  |  |
|  |  | Tomato | 1. Sucking pests incidence 2. Indiscriminate use of pesticides 3. Low yield | Installation of sticky trap, Neem soap spray 5 gm/l, *Leccanicillium leccanii* 0.2%, Emamectin Benzoate 5 SG 0.05 % |  | JK-818 | IIVR, Varanasi | Sticky traps | | 10 Nos. | 800 | **8** | 6400 | 1. Yield (q/ha) 2. Sucking Pest incidence (%) 3. B:C Ratio | Senior Scientist and Head, Scientist (Hort) |
| Neem soap | | 2 kg | 600 | 4800 |
| *Leccanicillium leccanii* | | 1 kg | 600 | 4800 |
| Emamectin Benzoate | | 1 kg | 1200 | 9600 |
| **GRAND TOTAL** | | | **3200** | **25600** |
|  |  | Arecanut | Root grub | * Soil application of neem cake @ 2 kg/palm + *Metarhizium anisopliea* @ 20 gm/palm * Drenching of Imidacloprid 3L solution/ palm @ 0.5 ml/L | Sagar Local |  | UAHS, Shivamogga | Neem cake | 200 kg | | 3500 | **5** | 17500 | 1. No.grubs/Plant 2. Yield 3. B:C | Senior Scientist and Head, Scientist (Hort) |
| Imidacloprid | 1 lt. | | 3000 | 15000 |
| Metarhizium | 10 kg | | 1100 | 5500 |
| **GRAND TOTAL** | | | **7600** | **38000** |
|  | | |  |  |
|  |  |  |  |  |  |  |  |  | | |  |  |  |  |  |
|  |  | Black Pepper | Foot rot, Micro-nutrient deficiency, Improper filling of spikes, Irregular growth of berries, Lower yield | * Soil test based fertilizer application * Application of *Trichorderma harzianum* around the base of the vine @ 50 g/vine * Soil drenching with potassium phosphonate (0.3%) @ 5-10 litres / vine. * Drenching of Bordeaux mixtures and Arka microbial consortia 20 gm/(June & September) for leaf rot and quick wilt * Metalaxyl MZ 8% + Mancozeb 64% and Bordeaux mixture (1%) spray * ‘*Pepper special*’ – micro nutrient mixture spray with 5 gm/*l.* (1st spray during spike initiation with onset of monsoon, 2nd spray 2 months after first spray) | Panniyur-1 |  | IISR, Calicut,  IIHR, Bengaluru | Pepper Special | | 3 kg | 1400 | **7** | 9800 | 1. Disease incidence (%) 2. Spikes / vine (Nos.) 3. Spike weight (g) 4. Yield (q/ha) 5. B:C Ratio | Scientist (Soil Science), Scientist (Horticulture), Senior Scientist and Head, |
| *Potassium phosphonate* | | 3 *ltr.* | 2000 | 14000 |
| Metalaxyl MZ + Mancozeb | | 1 kg | 2000 | 14000 |
| Arka Microbial consortia | | 10 kg | 1500 | 10500 |
| Soil analysis charge | | 1+2 samples | 150 | 1050 |
| **GRAND TOTAL** | | | **7050** | **49350** |
|  | | |  |  |
|  |  | Amaranthus | Lack of knowledge on high yielding and short duration variety | * Demonstration of high yielding, multicut Amaranthus variety– ‘Arka Suguna’ * RDF (100:50:50 NPK kg/ha) + FYM 25 t/ha * IIHR vegetable special * Azadiractin 5000 PPM @ 2.5 ml / lt | Arka Sugun |  | IIHR, Bengaluru | Amaranthus seeds | | 500 gm | 350 | **10** | 3500 | 1. Yield (t/ha) 2. B:C | Scientist (Horti, Scientist (Soil Science), Senior Scientist and Head |
| IIHR vegetable special | | 1 kg | 200 | 2000 |
| Azadiractin 5000 PPM | | 500 ml | 300 | 3000 |
| **GRAND TOTAL** | | | **850** | **8500** |
|  | | |  |  |
|  |  |  |  |  |  |  |  |  | | |  |  |  |  |  |
|  |  | Banana | Panama Wilt | * Sucker treatment with Carbendazim solution 1gm/ltr for 4 minutes before planting * Application of *Trichoderma* and *Pseudomonas* @ 50 gm/plant * Drenching with Carbendazim 50 WP @ 2 g/*l* * Stem injection with Carbendazim @ 20gm /ltr, 10ml solution /plant | Putta bale |  | UAHS, Shivamogga | Carbendazim | | 2 kg | 1200 | **8** | 9600 | 1.Yield (t/ha)  2. Disease incidence (%)  3. B:C | Senior Scientist and Head, Scientist (Horticulture) |
| *Trichoderma* and *Pseudomonas* | | 30 kg | 3000 | 24000 |
| Injector | | 1 No. | 500 | 4000 |
| **GRAND TOTAL** | | | **4700** | **37600** |
|  | | |  |  |  |
|  |  |  |  |  |  |  |  |  | | |  |  |  |  |  |
| 6.7 | Livestock | Cross bred cows | Infertility due to non availability of timely artificial insemination in remote areas. Decreased fertility and less number of calves per animal in the life span | Estrous synchronization by hormonal therapy and AI at estrous or heat period. Supplementation of minerals. | Cross bred cows | HG/ Jersy | KVAFSU, Bidar.  NDRI, Bangalore  ICAR- KVK’S  Bangalore rural  and  Namakkal | GnRH | | 2 inj | 550 | **20** | 11000 | 1. Conceive % 2. No. of AI / conceive 3. Fertility % | Scientist (Animal Science), Senior Scientist and Head, Scientist (Agril. Extension) |
| PGF2α | | 1 inj | 200 | 4000 |
| Mineral mixture | | 10 kg | 1250 | 25000 |
| Artificial insemination | | - | - | - |
| **GRAND TOTAL** | | | **2000** | **40000** |
|  | | |  |  |
|  |  | Poultry | Need of new breed in backyard poultry to increase the rural farmers’ income | Introduction of Kadaknath breed in backyard poultry. | Kadaknath | - | Madya Pradesh | Kadaknath chicks @ Rs. 80 per chick | | 50 No. | 4000 | **8** | 32000 | 1. Body weight at 4, 8 and 12 week (Kg.) 2. Survivability (%) 3. B:C | Scientist (Animal Science), Senior Scientist and Head, Scientist (Agril. Extension) |
| Vaccine, medicine @ Rs.10 per chick | | 50 chick | 500 | 4000 |
| **GRAND TOTAL** | | | **4500** | **36000** |
| 6.8 | Fisheries | Fish culture | Lack of awareness on new varieties affects the growth and productivity efficiency | Introduction of tilapia fish in composite culture. | Tilapia | - | CIFA  Bangalore | Tilapia fingerlings (Pond-60x40 ) | | 1200 No. | 4000 | **6** | 16000 | 1. Fish yield (kg) 2. Survivability % | Scientist (Animal Science), Scientist (Agril. Extension), Scientist (Horticulture) |
| Floating feed Rs 60 per kg. | | 50 kg. | 3000 | 24000 |
| **GRAND TOTAL** | | | **7000** | **42000** |
| 6.9 | **Others** |  |  |  |  |  |  |  | |  |  |  |  |  |  |
|  | Food and nutrition |  | Lack of knowledge on preparation of multigrain composite flour | Value addition to Millets for  Enhancing Rural Entrepreneurship | - | - | UAS, Dharwad | Foxtail millet | | 10 kg | 880 | **2** | 1760 | 1. Sensory evaluation 2. Shelf life 3. Economics | Scientist (Home Science) |
| Little millet | | 20 kg | 2400 | 4800 |
| Finger millet | | 10 kg | 500 | 1000 |
| Wheat | | 40 kg | 2000 | 4000 |
| Soya | | 1 kg | 80 | 160 |
| Fenugreek seeds | | 100 gm | 40 | 80 |
| Packing material | | 500 gm | 300 | 600 |
| Labels | | 500 No. | 400 | 800 |
| **GRAND TOTAL** | | | **6600** | **13200** |
|  | Food and nutrition |  | Growth retardation in Infants & Pre-school children | Demonstration of Roasted Multi Grain  Supplementary Food | - | - | RHSc (FSN), UAS, Dharwad | Jowar | | 200 gm | 10 | **2** | 600 | 1. Height (cm) : Before & After 2. Weight (kg): Before & After | Scientist (Home Science) |
| Ragi | | 200 gm | 10 | 600 |
| Rice | | 200 gm | 20 | 1200 |
| Greengram | | 200 gm | 20 | 1200 |
| Soyabean | | 200 gm | 20 | 1200 |
| Ground nut | | 200 gm | 25 | 1500 |
| Amaranth leaves | | 200 gm | 10 | 600 |
| **TOTAL** | | | **115** | **--** |
| **GRAND TOTAL**  (10 demo x 3 months) | | | **3450** | **6900** |

**7. Training for farmers/ farm women during 2019-20**

| **Sl. No.** | **Thematic area and the crop/ enterprise** | **Crop / Enterprise** | **Related field intervention (OFT/FLD)** | **Training title** | **No. of courses** | **Expected No. of participants** | **Names of the team members involved** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 7.1 | Crop production | Paddy | OFT | ICM in paddy | 2 | 60 | Scientist (Agronomy), Senior Scientist and Head, Scientist (Soil Science) |
| Paddy | FLD | Improved paddy cultivation | 2 | 60 | Scientist (Agronomy), Scientist (Soil Science), Scientist (Agril. Extension), |
| Fodder | FLD | Production technology of fodder crops | 2 | 60 | Scientist (Animal Science), Scientist (Agronomy), Scientist (Soil Science), Scientist (Agril. Extension) |
| 7.2 | Horticulture production | Chilli | OFT | ICM in Chilli | 3 | 90 | Scientist (Horticulture), Senior Scientist and Head, Scientist (Agril. Extension) |
| Ridge Gourd | OFT | Production technology of Ridge Gourd | 3 | 90 | Scientist (Horticulture), Senior Scientist and Head, Scientist (Agril. Extension) |
| Tomato | OFT | Pest and disease management in tomato | 3 | 90 | Senior Scientist and Head, Scientist (Horticulture), Scientist (Agril. Extension) |
| Leafy vegetable | FLD | Demonstration on high yielding Multi-cut amaranthus variety Arka Suguna | 2 | 60 | Scientist (Horticulture), Senior Scientist and Head, Scientist (Agril. Extension) |
| Flower | FLD | Demonstration of Gailardia variety DGS-1 | 1 | 30 | Scientist (Horticulture), Senior Scientist and Head, Scientist (Agril. Extension) |
| Vegetable | - | Production technology of vegetables | 1 | 30 | Scientist (Horticulture), Scientist (Soil Science), Scientist (Agril. Extension) |
| Ginger | - | Production technology of ginger | 2 | 60 | Senior Scientist and Head, Scientist (Horticulture), Scientist (Soil Science) |
| 7.3 | Livestock production | Livestock | FLD | Dry fodder enrichment | 2 | 80 | Scientist (Animal Science), Scientist (Agronomy), Scientist (Agril. Extension) |
| Livestock | OFT | Concentrated feed formulation in cross bred cows during peak production | 2 | 60 | Scientist (Animal Science) |
| Livestock | OFT/FLD | Feed management in dairy, sheep, goat and poultry | 2 | 60 | Scientist (Animal Science) |
| Livestock | FLD | Infertility management in crossbred cows | 2 | 60 | Scientist (Animal Science) |
| Livestock | FLD | Mastitis control measures | 2 | 60 | Scientist (Animal Science) |
| Livestock | FLD | Clean milk production | 2 | 60 | Scientist (Animal Science) |
| Livestock | FLD | Role of nutrition in quality milk production | 2 | 60 | Scientist (Animal Science) |
| Livestock | FLD | Disease management in livestock | 2 | 60 | Scientist (Animal Science) |
| Livestock | FLD | Importance of silage in livestock production | 2 | 60 | Scientist (Animal Science) |
| 7.4 | Home Science | Mushroom | - | Value addition in Mushroom | 1 | 30 | Scientist (Home Science), Scientist (Agril. Extension), PA |
| 7.5 | Plant protection | Paddy | FLD | Integrated Pest Management in paddy | 2 | 80 | Senior Scientist and Head, Scientist (Agronomy), Scientist (Soil Science) |
| Paddy | FLD | ICM in paddy | 2 | 80 | Senior Scientist and Head, Scientist (Agronomy), Scientist (Soil Science) |
| Paddy | FLD | IPM in paddy | 2 | 80 | Senior Scientist and Head, Scientist (Agronomy), Scientist (Soil Science) |
| Banana | FLD | IDM in banana | 2 | 60 | Senior Scientist and Head, Scientist (Horticulture), Scientist (Soil Science) |
| 7.6 | Production of inputs at site |  |  |  |  |  |  |
| 7.7 | Soil health and fertility | Bio-fertilizers | - | Importance of bio-fertilizers | 2 | 60 | Scientist (Soil Science), Senior Scientist and Head, PA |
| Bio-agents | - | Use of Bio-agents in control of pest and diseases | 2 | 100 | Senior Scientist and Head, PA, Scientist (Soil Science) |
| Composting | - | Areca husk composting | 2 | 60 | Scientist (Soil Science), Scientist (Agronomy), Scientist (Agril. Extension) |
| 7.8 | PHT and value addition | Ginger | OFT | Value addition in ginger | 2 | 80 | Scientist (Home Science) |
| Ginger | OFT | Post harvest technology in ginger | 2 | 80 | Scientist (Horticulture), Scientist (Home Science) |
| Millets | FLD | Value addition in millets | 2 | 60 | Scientist (Home Science) |
| Cereals | FLD | Value addition in Cereals | 2 | 60 | Scientist (Home Science) |
| 7.9 | Capacity building/  group dynamics |  |  |  |  |  |  |
| 7.10 | Farm mechanization | Paddy | - | Mechanized paddy cultivation | 1 | 30 | Senior Scientist and Head, Scientist (Agril. Extension), PA |
| 7.11 | Fisheries production technologies | Fish | FLD | Composite fish culture | 1 | 30 | Scientist (Animal Science), Senior Scientist and Head, Scientist (Agril. Extension) |
| 7.12 | Mushroom production | Enterprise | - | Mushroom production technology | 2 | 60 | Scientist (Home Science), PA |
| 7.13 | Agro forestry |  |  |  |  |  |  |
| 7.14 | Bee keeping | Bee keeping | - | Bee keeping | 1 | 40 | Senior Scientist and Head, Scientist (Agril. Extension), PA |
| 7.15 | Sericulture |  |  |  |  |  |  |
| 7.16 | Others, pl. specify |  |  |  |  |  |  |

**8. Training for rural youth during 2019-20**

| **Sl.No.** | **Thematic area and the crop/ enterprise** | **Crop / Enterprise** | **Related field intervention (EDP/Skill development etc)** | **Training title** | **No. of courses** | **Expected No. of participants** | **Names of the team members involved** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 8.1 | Crop production | Sunflower | Skill development | ICM in sunflower | 1 | 30 | Scientist (SS & AC), SS & H, Scientist (Agril. Extension) |
| Groundnut | Skill development | ICM in Groundnut | 1 | 30 | Scientist (SS & AC), SS & H, Scientist (Agril. Extension) |
| Paddy | Skill development | ICM in paddy | 1 | 30 | Scientist (SS & AC), SS & H, Scientist (Agril. Extension) |
| Pulses | Skill development | Production technology of pulses | 2 | 60 | Scientist (SS & AC),  SS & H, Scientist (Agril. Extension) |
| 8.2 | Horticulture production | Nursery techniques | Skill development | Nursery techniques in horticulture crops | 2 | 60 | Scientist (Horticulture), Scientist (Agril. Extension), Scientist (SS & AC) |
| Flower | Skill development | Production technologies of major flower crops | 1 | 30 | Scientist (Horticulture), Scientist (Soil Science), Scientist (Agril. Extension) |
| Black Pepper | Skill development | ICM in pepper | 1 | 60 | Scientist (Horticulture), Scientist (Soil Science), Scientist (Agril. Extension) |
| Vegetables | Skill development | ICM in French Bean | 1 | 30 | Scientist (Horticulture), Scientist (Soil Science), Scientist (Agril. Extension) |
| 8.3 | Livestock production | Sheep and goat rearing | EDP | Management of diseases in Sheep | 1 | 30 | Scientist (Animal Science), Scientist (Agril. Extension) |
| Poultry farming | EDP | Scientific management of backyard poultry | 1 | 30 | Scientist (Animal Science), Scientist (Agril. Extension) |
| Poultry farming | EDP | Disease control measures in poultry | 1 | 30 | Scientist (Animal Science) |
| Poultry farming | EDP | Feeding of backyard poultry | 1 | 30 | Scientist (Animal Science) |
| 8.4 | Home Science | Spices and oil seeds | EDP | Instant chutney powder preparation | 1 | 30 | Scientist (Home science) |
| Fruits | EDP | Method demonstration on processing and preservation of fruits | 1 | 30 | Scientist (Home science) |
| Millets | EDP | Value addition in millets | 1 | 30 | Scientist (Home science) |
| Cereals | EDP | Value addition in Cereals | 1 | 30 | Scientist (Home science) |
| 8.5 | Plant protection | Bio-agents | Skill development | Production, multiplication and usage of bio-agents in agriculture | 1 | 30 | SS & H |
| Pepper | Skill development | Production technology of pepper | 1 | 30 | Senior Scientist and Head, Scientist (Agril. Extension), PA |
| 8.6 | Production of inputs at site |  |  |  |  |  |  |
| 8.7 | Soil health and fertility | Composting | Skill development | Improved composting methodologies | 1 | 30 | Scientist (SS & AC), PA |
| All crops | Skill development | Soil sampling method | 1 | 30 | Scientist (SS&AC), SS & H, Scientist (Agril. Extension), |
| All crops | Skill development | Acidic soil management | 1 | 30 | Scientist (SS&AC), SS & H, Scientist (Agril. Extension), |
| 8.8 | PHT and value addition |  |  |  |  |  |  |
| 8.9 | Capacity building/ group dynamics | Farm science club | Skill development | Farm science club for enhance knowledge and increase income | 1 | 30 | Scientist (Agril. Extension), SS & H, FM |
| 8.10 | Farm mechanization | Paddy | Skill development | Mechanization in paddy | 1 | 30 | SS & H |
| 8.11 | Fisheries production technologies | Fisheries | Skill development | Composite fish culture | 1 | 30 | Scientist (Animal Science) |
| 8.12 | Mushroom production | Mushroom | EDP | Spawn production and mushroom cultivation | 2 | 60 | Scientist (Home Science), PA |
| 8.13 | Agro forestry |  |  |  |  |  |  |
| 8.14 | Bee keeping | Apiculture | EDP | Seasonal management of bee colonies | 1 | 30 | SS & H |
| 8.15 | Sericulture |  |  |  |  |  |  |
| 8.16 | Others, pl. specify |  |  |  |  |  |  |

### 9. Training for extension personnel during : 2019-20

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Thematic area and the crop/ enterprise** | **Training title** | **No. of courses** | **Expected No. of participants** | **Names of the team members involved** |
| 9.1 | Crop production | Improved paddy cultivation | 1 | 30 | SS & H, Scientist (Agril. Extension) |
| 9.2 | Home Science | Instant ragi malt preparation | 1 | 30 | Scientist (Home Science) |
| 9.3 | Capacity building and group dynamics | Sustainable agriculture and rural development | 1 | 30 | Scientist (Agril. Extension),  Scientist (Horticulture) |
| 9.4 | Horticulture | Grafting techniques in major horticulture crops | 2 | 60 | Scientist (Horticulture), Scientist (Agrl. Extension), Scientist (SS &AC) |
| Terrace garden and Kitchen garden | 2 | 60 | Scientist (Horticulture), Scientist (Agrl. Extension), Scientist (SS &AC) |
| 9.5 | Livestock production and management | Poultry disease diagnosis and treatment | 1 | 30 | Scientist (Animal Science) |
| Post mortem in large animals | 1 | 30 | Scientist (Animal Science) |
| Research developments in mastitis treatment | 1 | 30 | Scientist (Animal Science) |
| Project preparation in livestock | 1 | 30 | Scientist (Animal Science) |
| Emerging disease of livestock | 1 | 30 | Scientist (Animal Science) |
| Obscure disease diagnosis and management | 1 | 30 | Scientist (Animal Science) |
| 9.6 | Plant protection | Role of bio-agents in Integrated Pest Management | 1 | 30 | SS & H, Scientist (Agril. Extn) |
| 9.7 | Farm mechanization | A to Z mechanization in paddy | 1 | 30 | Scientist (Agronomy), SS & H |
| 9.8 | PHT and value addition |  |  |  |  |
| 9.9 | Production of inputs at site |  |  |  |  |
| 9.10 | Sericulture |  |  |  |  |
| 9.11 | Fisheries |  |  |  |  |
| 9.12 | Other, pl. specify |  |  |  |  |

## 10. Vocational trainings during 2019-20

| **Sl.No.** | **Thematic area and the crop/ enterprise** | **Training title** | **No. of programmes** | **Duration (days)** | **Expected**  **No. of participants** | **Sponsoring agency, if any** | **Names of the team members involved** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 10.1 | Crop production | Production technology of vegetables | 1 | 3 | 30 | - | Scientist (Horticulture), Senior Scientist and Head |
| 10.2 | Home Science | Mushroom cultivation | 1 | 3 | 30 | - | Scientist (Home Science), PA |
| 10.3 | Capacity building and group Dynamics | Co-operative marketing and human resource development | 1 | 3 | 30 |  | Scientist (Agril. Extension),SS & H |
| 10.4 | Horticulture | Preparation of eco-friendly value added products from areca leaf sheath | 1 | 3 | 30 | - | Scientist (Horticulture), Scientist (Home Science), Scientist (Agril. Extension), PA |
| Establishment and maintenance of terrace garden | 1 | 3 | 30 | - | Scientist (Horticulture), Scientist (SS & AC), Scientist (Agril. Extension) |
| Nursery techniques in horticultural crops | 1 | 3 | 30 | - | Scientist (Horticulture), Scientist (Agril. Extension), Scientist (SS & AC), PA |
| 10.5 | Livestock production and management | Poultry farming and sheep | 1 | 3 | 30 | -- | Scientist (Animal Science), Scientist (Agril. Extension) |
| 10.6 | Plant protection | Bee keeping | 1 | 3 | 40 | -- | SS & H, PA |
| 10.7 | Farm mechanization |  |  |  |  |  |  |
| 10.8 | PHT and value addition | Value addition to milk | 2 | 1 | 40 | - | Scientist (Home Science), Scientist (Animal Science) |
| Value addition to maize | 2 | 1 | 40 | - | Scientist (Home Science), Scientist (Soil Science) |
| Value addition to fruits | 2 | 1 | 40 | - | Scientist (Home Science), Scientist (Horticulture) |
| Value addition to agriculture produce | 2 | 1 | 40 | - | Scientist (Home Science), Scientist (Agril. Extension), PA |
| 10.9 | Production of inputs at site |  |  |  |  |  |  |
| 10.10 | Sericulture |  |  |  |  |  |  |
| 10.11 | Fisheries | Composite fish culture | 1 | 3 | 30 | - | Scientist (Animal Science), Scientist (Agril. Extension), PA |
| 10.12 | Other, pl. specify |  |  |  |  |  |  |

## 11. Sponsored trainings during 2019-20

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Thematic area and the crop/ enterprise** | **Training title** | **No. of programmes** | **Duration (days)** | **Expected number of participants** | **Sponsoring agency** | **Names of the team members involved** |
| 11.1 | Crop production | Improved paddy cultivation | 1 | 3 | 30 | ATMA | SS & H, Scientist (Agronomy), Scientist (SS & AC) |
| 11.2 | Home Science |  |  |  |  |  |  |
| 11.3 | Capacity building and group Dynamics | Sustainable development for farmers | 1 | 3 | 30 | State Government | Scientist (Agril. Extension), SS & H, FM |
| 11.4 | Horticulture | Nursery techniques in horticulture crops | 1 | 3 | 30 | State Government | Scientist (Horticulture), Scientist (Agril. Extension), Scientist (SS&AC) |
| 11.5 | Livestock production and management | Small poultry farming | 1 | 3 | 20 | ASCI | Scientist (Animal Science), Scientist (Agril. Extension) |
| 11.6 | Plant protection | Bio-agents – their production and utilization | 1 | 2 | 30 | State Government | SS & H, Scientist (Agril. Extension), PA |
| 11.7 | Farm mechanization | Coconut palm climbing | 1 | 5 | 30 | Coconut board | Scientist (Agril. Extension), SS & H, Scientist (Horticulture) |
| 11.8 | PHT and value addition |  |  |  |  |  |  |
| 11.9 | Production of inputs at site |  |  |  |  |  |  |
| 11.10 | Sericulture |  |  |  |  |  |  |
| 11.11 | Fisheries |  |  |  |  |  |  |

## 12. Extension activities during 2019-20

| **Sl. No.** | **Extension activity** | **No. of activities** | **Targeted number of participants** | **Names of the team members involved** |
| --- | --- | --- | --- | --- |
| 12.1 | Advisory services | 300 | 5500 | SS&H, Scientists, PAs and FM |
| 12.2 | Diagnostic visits | 08 | 50 | SS&H, Scientists and Line Dept. officials |
| 12.3 | Field days | 12 | 750 | SS&H, Scientists, PAs and FM |
| 12.4 | Group discussions | 20 | 450 | SS&H, Scientists, PAs and FM |
| 12.5 | Kisan gosthies | 2 | 250 | SS&H and All Scientists, PAs and FM |
| 12.6 | Film shows | 120 | 1800 | SS&H and All Scientists |
| 12.7 | Self -Help Groups (SHGs) meetings | 8 | 300 | SS&H and All Scientists |
| 12.8 | Kisan Melas | 05 | 1500 | SS&H, Scientists, PAs and FM |
| 12.9 | Exhibitions | 05 | 3000 | SS&H, Scientists, PAs and FM |
| 12.10 | Scientists' visit to farmers fields | 50 | 800 | SS&H and All Scientists |
| 12.11 | Plant/soil health/animal health camps | 02 | 150 | SS&H, Scientists, PA and FM |
| 12.12 | Farm science club meetings | - | - |  |
| 12.13 | Ex-trainees sammelans (Meetings) | 2 | 125 | SS&H and All Scientists |
| 12.14 | Farmers' seminars/workshops | 6 | 280 | SS&H, Scientists, PA and FM |
| 12.15 | Method demonstrations | 25 | 900 | SS&H, Scientists, PA and FM |
| 12.16 | Celebration of important days | 4 | 400 | SS&H, Scientists, PA and FM |
| 12.17 | Special day celebrations | 4 | 350 | SS&H and All Scientists |
| 12.18 | Exposure visits | 10 | 400 | SS&H, Scientists, PA |
| 12.19 | Technology week celebration | 1 | 500 | SS&H and All Scientists |
| 12.20 | Farmers Field School (FFS) | 1 | 30 | SS&H and All Scientists |
| 12.21 | Farm innovators meet | 2 | 150 | SS&H, Scientists and PA |
| 12.22 | Awareness programmes | 2 | 220 | SS&H and All Scientists |
| 12.23 | Pre-kharif campaign | 1 | 150 | SS&H and All Scientists |
| 12.24 | Pre-rabi/summer campaign | 1 | 150 | SS&H and All Scientists |
| 12.25 | Others, pl. specify | 4 | 200 | Scientist (Animal Science) |
|  | Animal Health Camp | 4 | 200 | Scientist (Animal Science) |

## 13. Activities proposed as knowledge and resource centre during 2019-20

**13.1 Technological knowledge**

| **Sl. No.** | **Category** | **Details of technologies** | **Area (ha)** | **Number** | **Names of the team members involved** |
| --- | --- | --- | --- | --- | --- |
| 13.1.1 | Technology park/ crop cafeteria | * Groundnut seed production * Demonstration on improved ragi varieties * Demonstration on improved varieties of oil seeds and pulses * Demonstration on high yielding, disease resistant vegetable crops (Beans, Brinjal, Chilli, tomato) * Demonstration on drumstick, ginger, turmeric. * Demonstration on intercropping system * Demonstration on fodder bank * Demonstration on model Kitchen Garden * Demonstration of Tube rose & rose * Demonstration on roof top garden | 3.0 | 10 | SS&H, Scientists, FM |
| 13.1.2 | Demonstration units | * Protected structure | 0.3 | 3 | SS&H, Scientist (Horticulture), FM |
| * University released crop varieties viz., Cereals, pulses, oilseeds, etc. | 0.50 | 8 | SS&H, Scientists, FM |
| 13.1.3 | Lab analytical services | * Testing of soil, water and manure samples | - | 4000 Nos. | SS&H, PA,  Scientist (Soil Science) |
| 13.1.4 | Technology week | * Farmers-Scientists interaction meet * Integrated production technologies in field crops * Protected cultivation of vegetables and flowers * Value addition * Marketing of agricultural produce and formation of farmers group * Role of animal husbandry in improving the farmers’ income | - | 1 | All KVK staff |
| 13.1.5 | Others, Pl. specify |  |  |  |  |
|  | Livestock | Instructional livestock unit | 1.0 (Cows, sheep, goat, poultry) | 1 | Scientist (Animal Science), Senior Scientist and Head, FM |

**13.2 Technological products**

| **Sl. No.** | **Category** | **Name of the production**  **partner agency, if any** | **Name of the product** | **Quantity planned to be produced during 2019-20 (q)** | **Number planned to be produced during**  **2019-20** | **Names of the team members involved** |
| --- | --- | --- | --- | --- | --- | --- |
| 13.2.1 | Seeds | UAHS, Shivamogga | Groundnut breeder seed | 10 q |  | SS&H, Farm Manager, Scientist (Agronomy) , Scientist (Horticulture), PA |
| Ragi | 8 q |  | SS&H, Farm Manager, Scientist (Agronomy) , PA |
| (Pulses) Red gram, black gram, green gram, cowpea, horse gram | 3 q |  | SS&H, Farm Manager,  Scientist (Agronomy) ,PA |
| Cashew | 3 q |  | SS&H, Farm Manager, Scientist (Horticulture), |
| Diancha / Sunhemp | 0.25 q |  |  |
| 13.2.2 | Planting material | UAHS, Shivamogga | Papaya – Taiwan-786\* |  | 10000 Nos. | SS&H, Farm Manager, Scientist (Agronomy) , Scientist (Horticulture), PA |
| Drumstick – Bhagya/PKM-1\* |  | 12000 Nos. |
| Curry leaf-Suvasini\* |  | 1500 Nos. |
| Sapota – Cricket Ball / Kalipatti\* |  | 500 Nos. |
| Mango – Alphonso\* |  | 500 Nos. |
| Vegetable seedlings\* |  | 25000 Nos. |
| Coconut |  | 1500 Nos. |
| Peppers |  | 2000 Nos. |
| Arecanut |  | 2000 Nos. |
| 13.2.3 | Bio-products | UAHS, Shivamogga | Vermicompost | 2 t |  | SS&H, Farm Manager, PA |
| *Trichoderma*-Bio-control agent | 2 q |  | SS&H, PA (Lab), Farm Manager |
| *Pleurotous* – decomposing organism and as a spawn | 1 q |  | SS&H, PA (Lab), Farm Manager |
| 13.2.4 | Livestock strains | UAHS, Shivamogga | Milk  Sheep  Chicken / Birds  Egg | 5000 ltr.  20 No.  1000 Kg.  10-15000 |  | Scientist (Animal Science), Senior Scientist and Head, FM |
| 13.2.5 | Fish fingerlings |  |  |  |  |  |
| 13.2.6 | Any other, pl specify |  |  |  |  |  |

**13.3 Technological information**

| **Sl. No** | **Category** | **Technological capsules/lectures/number** | **Names of the team members involved** |
| --- | --- | --- | --- |
| 13.3.1 | Technology backstopping to line departments |  |  |
| 1. Agriculture | 1. Technical input to bi-monthly workshop 2. Resource persons during training programme organized by KSDA 3. Diagnostic visit to problematic fields 4. Technical backstopping to Bhoo-chethana/ NFSM/ATMA | SS&H,  All Scientists, Programme Assistant  & Farm Manager |
| 1. Horticulture | * + 1. Resource persons during training programme organized by KSDH     2. Technical backstopping to FPO     3. Diagnostic visit to problematic fields | SS&H  & All Scientists |
| 1. Animal Husbandry | * 1. Resource person during programme organized by the department of Animal Husbandry   2. Technical back stopping to officials / veterinary doctors/para technical staff of department of Animal husbandry | Scientist (Animal Science) |
| 1. Fisheries |  |  |
| 1. Agricultural Engineering | Training on use of coconut climber and palm cleaning  Paddy mechanization | Scientist (Agril. Extension)  Scientist (Hort), PA |
| 1. Sericulture |  |  |
| 1. Others, pl. specify |  |  |
| 13.3.2 | Literature/publication | Extension bulletin on IPM in chilli, banana and aecanut, vermicompost production technology, Protected cultivation, Improved production technology of oil seed crops | SS&H, All Scientists, Programme Assistant (Lab Technician) & Farm Manager |
| Formation of Commodity Groups, | SS&H & Scientist (Agril. Extension) |
| Publication of success stories,  Information on schemes of the line departments | SS&H and All Scientists |
| Forage crops | SS&H and All Scientists |
| 13.3.3 | Electronic media | Radio programme, TV programme, forecasting, Short messages, Mobile advisories, CD/DVDs | SS&H, All Scientists, Programme Assistant (Computer) & Farm Manager |
| 13.3.4 | Kisan mobile advisory services | Information on outbreak of pest and disease and advisory services | SS&H, All Scientists, Programme Assistant (Lab Technician) & Farm Manager |
| 13.3.5 | Information on centre/state sector schemes and service providers in the district (Data may be collected from different agencies). | Information on schemes of line departments will be collected and documented | SS&H, All Scientists, Programme Assistant (Computer), Programme Assistant (Lab Technician) & Farm Manager |

## 14. Additional activities planned during 2019-20

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Name of the agency / scheme** | **Name of activity** | **Technical programme with quantification** | **Financial outlay (Rs.)** | **Names of the team members involved** |
| 1. | Government of Karnataka | Integrated farming system | 1 programme | 14.00 | SS&H, All Scientists, PAs |
| 2. | Government of Karnataka | Farmers’ Producers Organisation | 1 Programme | 3.9 | SS&H, All Scientists, PAs |
| 3. | Government of Karnataka | Areca palm climbing skill development training | 4 programme | 2.0 | SS&H, All Scientists, PAs |
| 4. | Government of Karnataka | Demonstration on Fertigation | 2 programme | 1.0 | SS&H, All Scientists, PAs |
| 5. | Government of Karnataka | Demonstration on Irrigation System | 4 programme | 2.0 | SS&H, All Scientists, PAs |

**15. Revolving fund**

**15.1 Financial status of revolving fund**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Opening balance as on 01.04.2018 (Rs.in Lakh)** | **Expenditure incurred during**  **2018-19 (Rs.in Lakh)** | **Receipts during**  **2018-19 (Rs. in Lakh)** | **Closing balance as on**  **31.01.2019 (Rs. in Lakh)** | **Expected closing balance by 31.03.2019 (Including value of material in stock/ likely to be produced)** |
| 10,25,800.00 | 3,65,106.00 | 5,69,165.00 | 11,96,494.00 | 12,29,859.00 |

**15.2 Plan of activities under revolving fund**

| **Sl.**  **No.** | **Proposed activities** | **Expected output** | **Anticipated income (Rs.)** | **Names of the team members involved** |
| --- | --- | --- | --- | --- |
| 1. | Horticulture Nursery production | 500000 seedlings | 300000 | SS & H, FM & Scientist (Horticulture) |
| 2. | Pulses seed production | 3 q | 15000 | SS & H, FM |
| 3. | Ragi seed production | 8 q | 10000 | SS & H, FM |
| 4. | Groundnut seed production | 10 q | 50000 | SS & H, FM |
| 5. | Fish production | 5 q | 25000 | SS & H, FM |
| 6. | Fodder seed production | 8 q | 40000 | SS & H, FM |
| 7. | Soil and water testing | 3000 samples | 250000 | SS & H, Scientist (Soil Science), Programme Assistant |
| 8. | Poultry farming | 2000 No. | 20000 | Scientist (Animal Science), Senior Scientist and Head, FM |

## 16. Activities of soil, water and plant testing laboratory during 2019-20

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.No.** | **Type of samples** | **No. of samples to be analyzed** | **Names of the team members involved** |
| 16.1 | Soil test using analytical lab | 2000 | Scientist (Soil Science), Senior Scientist and Head, PA |
| 16.2 | Soil test using mobile analysis kit | - |  |
| 16.3 | Water | 1000 | Scientist (Soil Science), Senior Scientist and Head, PA |
| 16.4 | Plant |  |  |
| 16.5 | Others, pl. specify | 100 | Scientist (Soil Science), Senior Scientist and Head, PA |

## 17. E-linkage during 2019-20

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No** | **Nature of activities** | **Likely period of completion**  **(please set the time frame)** | **Remarks if any** |
| 17.1 | Title of the technology module to be prepared |  |  |
| 17.2 | Creation and maintenance of relevant database system for KVK | In progress | Maintaining in Software developed by ATARI, Bengaluru. |
| 17.3 | Any other (Please specify) |  |  |

**18. Activities planned under rainwater harvesting scheme (Only to those KVKs which are already having scheme under rain water harvesting) : NIL**

|  |  |  |
| --- | --- | --- |
| **Sl. No** | **Activities planned** | **Remarks if any** |
|  |  |  |

**19. Farmers Field School (FFS) planned**

|  |  |  |
| --- | --- | --- |
| **Thematic area** | **Title of the FFS** | **Budget proposed in Rs.** |
| Integrated Crop management | Integrated Crop Management in French Bean | 30,000-00 |

**20. Integrated Farming System (IFS) planned**

|  |  |  |
| --- | --- | --- |
| **Description of model(s)** | **No. of models/units** | **Budget proposed in Rs.** |
| 1. Demonstration of improved varieties in Agricultural and horticultural crops | 4 | 80000 |
| 1. Demonstrations related to Animal husbandry |
| 1. Establishment of Apiary |
| 1. Agro-forestry and fodder cafeteria |

**21. Details of budget utilization (2018-19) upto 31 March 2019**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No.** | **Particulars** | **Sanctioned** | **Released** | **Expenditure** |
| **21.1** | **(A). REVENUE (Recurring Contingencies)** |  |  |  |
| 21.1.1 | **Pay & Allowances** | 12458000 |  | 11306719 |
| 21.1.2 | **Traveling allowances** | 55000 |  | 29457 |
| 21.1.3 | **Contingencies** |  |  |  |
| 21.1.3.*a* | *Stationery, telephone, postage and other expenditure on office running, publication of Newsletter* | 210000 |  | 210000 |
| 21.1.3.*b* | *POL, repair of vehicles, tractor and equipments* | 160000 |  | 159000 |
| 21.1.3.*c* | *Food/refreshment for farmers/extension personnel @ Rs.150/person/day* | 85000 |  | 84900 |
| 21.1.3.*d* | *Training material (need based materials and equipments for conducting the training)* | 40000 |  | 49600 |
| 21.1.3.*e* | *Frontline demonstrations* | 346000 |  | 345985 |
| 21.1.3.*f* | *On farm testing (OFTs)/Technology Assessment* | 79000 |  | 78985 |
| 21.1.3.*g* | *Integrated Farming System (IFS) (Min. 5 Units)* | -- |  | -- |
| 21.1.3.*h* | *Training of extension functionaries* | 25000 |  | 25000 |
| 21.1.3.*i* | *Extension activities/services* | 50000 |  | 49600 |
| 21.1.3.*j* | *Farmers' Field School* | -- |  | -- |
| 21.1.3.*k* | *EDP (2 Nos.) / Innovative activities* | 30000 |  | 29682 |
| 21.1.3.*l* | *Soil & water testing & issue of soil health cards* | 20000 |  | 24800 |
| 21.1.3.*m* | *Maintenance of building* | 50000 |  | 49900 |
| 21.1.3.*n* | *Farmers Conclave, KVK Conference* | -- |  |  |
| 21.1.3.*o* | *Video production* | -- |  |  |
| 21.1.3.*p* | *Library (Purchase of Journals, Periodicals, News Papers & Magazines)* | 5000 |  | 2878 |
|  | **Total Recurring** | **13613000** |  | **12446506** |
| **21.2** | **(B). CAPITAL (Non-Recurring Contingencies)** |  |  |  |
| 21.2.1 | **Equipments & Furniture** |  |  |  |
| 21.2.2 | **Works** |  |  |  |
| 21.2.3 | **Vehicle** |  |  |  |
| 21.2.3 a | Four wheeler (replacement) |  |  |  |
| 21.2.4 | **Library** |  |  |  |
|  | **Total Non Recurring** |  |  |  |
| **21.3** | **(C). REVOLVING FUND** |  |  |  |
|  | **GRAND TOTAL (A + B + C)** | **13613000** |  | **12446506** |

**22. Details of Budget Estimate based on proposed action plan (2019-20)**

| **Sl. No.** | **Particulars** | **BE 2019-20 proposed (Rs.)** |
| --- | --- | --- |
| **22.1** | **(A). REVENUE (Recurring Contingencies)** |  |
| 21.1.1 | **Pay & Allowances** | 17500000 |
| 22.1.2 | **Traveling allowances** | 100000 |
| 22.1.3 | **Contingencies** |  |
| 22.1.3.*a* | *Stationery, telephone, postage and other expenditure on office running, publication of Newsletter* | 300000 |
| 22.1.3.*b* | *POL, repair of vehicles, tractor and equipments* | 250000 |
| 22.1.3.*c* | *Food/refreshment for farmers / extension personnel @ Rs.150/person/day* | 100000 |
| 22.1.3.*d* | *Training material (need based materials and equipments for conducting the training)* | 50000 |
| 22.1.3.*e* | *Frontline demonstrations* | 434550 |
| 22.1.3.*f* | *On farm testing (OFTs)/Technology Assessment* | 54500 |
| 22.1.3.*g* | *Integrated Farming System (IFS) (Min. 5 Units)* | 80000 |
| 22.1.3.*h* | *Training of extension functionaries* | 25000 |
| 22.1.3.*i* | *Extension activities/services* | 50000 |
| 22.1.3.*j* | *Farmers' Field School* | 30000 |
| 22.1.3.*k* | *EDP (2 Nos.) / innovative activities* | 30000 |
| 22.1.3.*l* | *Soil & water testing & issue of soil health cards* | 50000 |
| 22.1.3.*m* | *Maintenance of building* | 50000 |
| 22.1.3.*n* | *Library (Purchase of Journals, Periodicals, News Papers& Magazines)* | 5000 |
| 22.1.3.o | *Others, pl. specify* |  |
|  | **Total Recurring (A)** | **1,91,09,050** |
| **22.2** | **(B). CAPITAL (Non-Recurring Contingencies)** |  |
| 22.2.1 | **Equipments & Furniture (Office Automation)** | 300000 |
| 22.2.2 | **Works** | 300000 |
| 22.2.3 | **Vehicle** |  |
| 22.2.3.a | Four wheeler (replacement) |  |
| 22.2.4 | **Library** | 5000 |
|  | **Total Non Recurring (B)** | **6,05,000** |
|  | **Grand Total (A + B)** | **1,97,57,000** |

**- : O : -**