

ICAR-ATARI, ZONE–XI, HEBBAL, BENGALURU

ACTION PLAN 2019-20

ICAR-TARALABALU KRISHI VIGYAN KENDRA, DAVANAGERE

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 ID | : | ICAR-Taralabalu Krishi Vigyan Kendra Kadalivana, LIC Colony Layout, BIET College Road, DAVANAGERE-577004, Karnataka Phone : 08192-263462, 297142 E-Mail : dvgtkvk@yahoo.com , kvk.Davanagere@icar.gov.in |
| 1.2 | Name and address of host organization | : | Taralabalu Rural Development Foundation SIRIGRE-577541, Chitradurga District |
| 1.3 | Year of sanction | : | 2004-05 |
| 1.4 | Website address of KVK and date of last update | | www.taralabalukvk.com |

2. Details of staff as on date

| 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. Devaraja T.N. | Fishery | 37400-67000 PB-4 | 10000 | 17-05-2005 | Permanent |
| 2.2 | Subject Matter Specialist | Mr. Basavanagowda M.G. | Horticulture | 15600-39100 PB-3 | 6600 | 21-11-2006 | Permanent |
| 2.3 | Subject Matter Specialist | Mr. Mallikarjuna B.O. | Agronomy | 15600-39100 PB-3 | 6600 | 09-01-2008 | Permanent |
| 2.4 | Subject Matter Specialist | Dr. Jayadevappa G.K. | Animal Science | 15600-39100 PB-3 | 6600 | 29-01-2008 | Permanent |
| 2.5 | Subject Matter Specialist | Mr. Raghuraja J. | Agri. Extension | 15600-39100 PB-3 | 6600 | 23-06-2008 | Permanent |
| 2.6 | Subject Matter Specialist | Vacant | Plant Protection | 15600-39100 PB-3 | 5400 | -- | Vacant |
| 2.7 | Subject Matter Specialist | Mr. H.M. Sannagoudra | Soil Science | 15600-39100 PB-3 | 5400 | 01-07-2013 | Permanent |
| 2.8 | Programme Assistant (Lab Assistant) | Mr. Revanasiddappa G.B.P. | Lab. Technician | 9300-34800 PB-2 | 4200 | 11-04-2012 | Permanent |

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|------|--|------------------------------------|------------------|-----------------|------|------------|-----------|
| 2.9 | Programme Assistant (Computer Programmer) | Mr. Santhosh B. | Computer | 9300-34800 PB-2 | 4600 | 05-09-2008 | Permanent |
| 2.10 | Programme Assistant (Farm Manager) | Mr. Vijayakumar S.B. | Farm Manager | 9300-34800 PB-2 | 4200 | 23-06-2008 | Permanent |
| 2.11 | Assistant | Mr. Mallikarjuna S. Gudihindala | Administration | 9300-34800 PB-2 | 4600 | 01-06-2005 | Permanent |
| 2.12 | Stenographer | Smt. Mamatha H. Melmalagi | Administration | 5200-20200 PB-1 | 2800 | 27-06-2005 | Permanent |
| 2.13 | Driver 1 | Mr. Marulasiddaiah N.M. | Jeep | 5200-20200 PB-1 | 2400 | 01-06-2005 | Permanent |
| 2.14 | Driver 2 | Mr. Shivakumar S. | Tractor | 5200-20200 PB-1 | 2400 | 01-06-2005 | Permanent |
| 2.15 | Supporting staff 1 | Mr. Shivakumar B. | Office Attendant | 5200-20200 PB-1 | 1900 | 01-06-2005 | Permanent |
| 2.16 | Supporting staff 2 | Mr. Shivakumar S.E. | Farm Attendant | 5200-20200 PB-1 | 1900 | 01-06-2005 | Permanent |

3. Details of SAC meeting conducted during 2018-19

Recommendations of 16th SAC meeting held on 18-12-2018

Group-I : To be addressed at KVK level

1. To go for rapid multiplication method for production of quality planting material in Pepper.
2. To involve farmers in vegetable seed production and to study Krishi Vigyan Kendra Thrissur Women Groups in this regard.
3. To collect the demand and supply statistics for Onion before season.
4. To promote dry fodder enrichment before feeding to animals.
5. To use least cost seed formulation while preparing compounded feeds at house hold level.
6. To use media properly to give wide publicity for successful technologies.
7. To promote Arka Microbial Consortium (IIHR, Bengaluru) for wilt problems.

Group-II : To be addressed through action plan of KVK in the year 2018-19

1. Develop District Crop Plan and Strategy documents and appraise District Commissioner.
2. Need to minimize use of weedicides in Arecanut.
3. To promote fish seeds production through farmers entrepreneurship which helps to scale up fisheries activities in the district.
4. To promote small ruminants rearing among small and marginal farmers and use crop residue efficiently.

Group-III : To be addressed through convergence with Development Departments

1. Direct Dry Seeded Rice (DSR) method of Paddy cultivation should be promoted in the entire district.
2. Alternate crops in place of Maize should be promoted through farmers awareness programmes and Media should be used effectively for this purpose.
3. Establishment of small minor millet processing and packing units and Groundnut Oil extraction units in Jagalur tq.
4. To start model nursery for production and supply of Pepper Seedlings.
5. Onion seeds (Good Quality) should be made available to farmers.
6. To identify lacunae in PMFBY and inform the problems faced by farmers to authorities.
7. To promote ripening chambers in Mango through Horticulture Department.
8. To facilitate one or two stalls in APMC for FPOs.
9. To include fisheries components in IFS model by earmarking 15 % area in the farmers.
10. To organize training for bank AEO's on latest Agricultural Technologies. Important tips on Agricultural Technologies to be broadcasted through AIR.

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.) |
|--------------------------------------|---|---|--|---|
| 1 | 2 | 3 | 4 | 5 |
| Agasanakatte Davanagere taluk | Maize + Redgram | <ul style="list-style-type: none"> • Low yield • No intercrop • Cob worm incidence • Army worm and fall army worm • Use of old varieties like Hy 3c, TTB-7 and long duration | 175 ha | <p>FLD - Intercropping of pulses with (Redgram BRG-5) in Maize</p> <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Importance of seed treatment for higher yield in intercropping system - Integrated pest management in Maize + Redgram • Method demonstrations <ul style="list-style-type: none"> - Seed treatment with biofertilizers - Installation of pheromone traps • Extension activities |

| | | | |
|----------------|--|---------|---|
| Tomato | <ul style="list-style-type: none"> • Low yield • Poor water management • No IPDM practices • Improved hybrids are not cultivated | 25 ha | <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Production technology - IPDM practices • Method demonstrations <ul style="list-style-type: none"> - Seed treatment with biofertilizers - Installation of pheromone traps • Extension activities • Marketing & value addition |
| Areca nut | <ul style="list-style-type: none"> • Low yield • Inflorescence die back • No intercropping in Areca nut | 40.5 ha | <p>FLD - Integrated Pest and Disease Management in Areca nut</p> <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Production technology of Areca nut • Method demonstrations <ul style="list-style-type: none"> - Method of placing fertilizers - Foliar spray of micronutrients • Extension activities |
| Dairying | <ul style="list-style-type: none"> • Low milk yield • Scarcity of good quality fodder • Delayed puberty | 138 No. | <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Use of Non-protein nitrogenous (NPN) substances in reducing the feeding cost in dairy animals - Importance of colostrums and milk feeding to crossbred female calves • Method demonstrations <ul style="list-style-type: none"> - Dry fodder enrichment & feeding along with grain mixture - Silage making methods - Azolla production • Extension activities |
| Sheep and goat | <ul style="list-style-type: none"> • Lower body weight gain • Under nutrition • Worm infestation | 45 No. | <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Effect of total deworming and balanced nutrition in small ruminants • Method demonstrations <ul style="list-style-type: none"> - Preparation of compounded feeds for sheep • Extension activities |
| IFS | <ul style="list-style-type: none"> • Mono cropping systems | -- | Dryland IFS system – 10,000/- |

| 1 | 2 | 3 | 4 | 5 |
|-----------------------------------|-----------|---|---------|---|
| Ramathirtha Harihara taluk | Rice | <ul style="list-style-type: none"> • Low yield • BPH, Sheath blight and blast • Tail enders | 30 ha | <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - IPM for the stem borer and BPH • Method demonstrations <ul style="list-style-type: none"> - Seed treatment with biofertilizers - Installation of pheromone traps • Extension activities |
| | Maize | <ul style="list-style-type: none"> • Low yield • No intercrop with redgram • Stem borer and downey mildew • Incidence of fall army worm | 130 ha | <p>FLD - Intercropping of pulses with (Redgram BRG-5) in Maize</p> <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Importance of seed treatment for higher yield in intercropping system - Integrated pest management in Maize + Redgram • Method demonstrations <ul style="list-style-type: none"> - Seed treatment with biofertilizers - Installation of pheromone traps • Extension activities |
| | Arecanut | <ul style="list-style-type: none"> • Red mites in small plants • Incidence of Hidimundige • Incidence of nut splitting | 15 ha | <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Production technology of Arecanut • Method demonstrations <ul style="list-style-type: none"> - Method of placing fertilizers - Foliar spray of micronutrients • Extension activities |
| | Betelvine | <ul style="list-style-type: none"> • Foot rot • Downey mildew • Scales, root grub and leaf curl • Powdery mildew | 30 ha | <p>FLD – Wilt management in Betelvine</p> <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Recent trends in production technology of betelvine • Method demonstrations <ul style="list-style-type: none"> - Drenching of AMC - Lowering of vines • Extension activities |
| | Dairying | <ul style="list-style-type: none"> • Low yield • Infertility & repeat breeding • Mastitis | 197 No. | <p>FLD – Feeding dairy animals based on Indian standards for better performance</p> <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Use of Non-protein nitrogenous (NPN) substances in reducing the feeding cost in dairy animals |

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|----------------------|--|--------|---|---|
| | | | | <ul style="list-style-type: none"> - Importance of colostrums and milk feeding to crossbred female calves • Method demonstrations <ul style="list-style-type: none"> - Dry fodder enrichment & feeding along with grain mixture - Silage making methods - Azolla production • Extension activities |
| Sheep & goat rearing | <ul style="list-style-type: none"> • Lower body weight gain • Worm infestation | 89 No. | <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Effect of total deworming and balanced nutrition in small ruminants • Method demonstrations <ul style="list-style-type: none"> - Preparation of compounded feeds for sheep • Extension activities | |
| Fodder | <ul style="list-style-type: none"> • Low yield • Palatability problems | 2 ha | <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Hydroponic fodder production technology • Method demonstrations <ul style="list-style-type: none"> - Preparation of fodder using hydroponic • Extension activities | |
| Fisheries | <ul style="list-style-type: none"> • No fish culture | -- | <p>FLD - Integrated management of fish culture in ponds</p> <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Principles of fish farming • Method demonstrations <ul style="list-style-type: none"> - Feed formulation • Extension activities | |
| IFS | <ul style="list-style-type: none"> • Mono cropping systems | -- | Irrigated IFS system – 10,000/- | |

| 1 | 2 | 3 | 4 | 5 |
|---|--|--|---------|--|
| Kadaranahalli Channagiri taluk | Rice | <ul style="list-style-type: none"> • Water scarcity (Tail end village) • BPH, Sheath blight and blast • Improper nutrient management (Excess of nitrogen application) • Increased cost of production | 85 ha | FLD – Demonstration on Direct Seeded Rice <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - IPM for the stem borer and BPH • Method demonstrations <ul style="list-style-type: none"> - Seed treatment with biofertilizers - Installation of pheromone traps • Extension activities |
| | Arecanut | <ul style="list-style-type: none"> • No intercrop • Water scarcity • Nut splitting, premature dropping of nuts • Yellowing of leaves • Disposal of Arecanut husk on road sides | 60 ha | <ul style="list-style-type: none"> • OFT - Evaluation of performance of different compost cultures to decompose arecanut husk • Training <ul style="list-style-type: none"> - Production technology of Arecanut • Method demonstrations <ul style="list-style-type: none"> - Method of placing fertilizers - Foliar spray of micronutrients • Extension activities |
| | Dairy | <ul style="list-style-type: none"> • Scarcity of good quality of fodder • Under /malnutrition • Mastitis | 150 No. | FLD – Feeding colostrums and milk to female calves during early stage <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Use of Non-protein nitrogenous (NPN) substances in reducing the feeding cost in dairy animals - Importance of colostrums and milk feeding to crossbred female calves • Method demonstrations <ul style="list-style-type: none"> - Dry fodder enrichment & feeding along with grain mixture - Silage making methods - Azolla production • Extension activities |
| | Fisheries | <ul style="list-style-type: none"> • No fish culture | -- | <ul style="list-style-type: none"> • Introduction of fish culture |
| | Natural resource management Borewell recharge | <ul style="list-style-type: none"> • Depleted ground water level | -- | <ul style="list-style-type: none"> • Rain water harvest to recharge borewells (10 No.) in convergence mode – Rs. 3,00,000/- |
| | Farm ponds | <ul style="list-style-type: none"> • No protective irrigation during critical stages of crop growth | -- | <ul style="list-style-type: none"> • Construction of farm pond (10 No.) in convergence mode – Rs. 2,00,000/- |
| | IFS | <ul style="list-style-type: none"> • Mono cropping systems | -- | <ul style="list-style-type: none"> • Irrigated IFS system – Rs. 10,000/- |

| 1 | 2 | 3 | 4 | 5 |
|-------------------------------------|------------|--|---------|---|
| Rameshwara Honnali taluk | Maize | <ul style="list-style-type: none"> • Low yield • Sole crop • Army worm and fall army worm • Improper nutrient management (No potash application) | 320 ha | <p>FLD - Intercropping of pulses with (Redgram BRG-5) in Maize</p> <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Importance of seed treatment for higher yield in intercropping system - Integrated pest management in Maize + Redgram • Method demonstrations <ul style="list-style-type: none"> - Seed treatment with biofertilizers - Installation of pheromone traps • Extension activities |
| | Onion | <ul style="list-style-type: none"> • Lower yield • Incidence of sucking pests • Splitting of bulbs at bulbing stage | 90 ha | <p>FLD – Micronutrient management in Onion</p> <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Integrated Crop Management in Onion • Method demonstrations <ul style="list-style-type: none"> - Seed treatment with biofertilizers • Extension activities |
| | Bengalgram | <ul style="list-style-type: none"> • Low yield • Low yielding varieties • No IPM measures • Poor nutrient management • Weed management • Broadcasting method of sowing | 70 ha | <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Integrated Crop Management in Bengalgram - IPDM practices in Bengalgram • Method demonstrations <ul style="list-style-type: none"> - Seed treatment with biofertilizers - Installation of pheromone traps • Extension activities |
| | Tomato | <ul style="list-style-type: none"> • Blossom end rot • Improper nutrient management • Pod borer • Blight incidence | 40 ha | <p>FFS– IPM in Tomato</p> <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Production technology - IPDM practices • Method demonstrations <ul style="list-style-type: none"> - Seed treatment with biofertilizers - Installation of pheromone traps • Extension activities |
| | Dairying | <ul style="list-style-type: none"> • Low milk yield • Scarcity of good quality fodder • Delayed puberty | 200 No. | <p>FLD– Feeding dairy animals based on Indian standards for better performance</p> <ul style="list-style-type: none"> • Training |

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|--|-------|--|---------|--|
| | | | | <ul style="list-style-type: none"> - Use of Non-protein nitrogenous (NPN) substances in reducing the feeding cost in dairy animals - Importance of colostrums and milk feeding to crossbred female calves • Method demonstrations <ul style="list-style-type: none"> - Dry fodder enrichment & feeding along with grain mixture - Silage making methods - Azolla production • Extension activities |
| | Sheep | <ul style="list-style-type: none"> • Lower body weight gain • Worm infestation | 150 NO. | <p>FLD – Controlling parasitic infestations and feeding small ruminants based on Indian standards for better performance</p> <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Effect of total deworming and balanced nutrition in small ruminants • Method demonstrations <ul style="list-style-type: none"> - Preparation of compounded feeds for sheep • Extension activities |
| | IFS | <ul style="list-style-type: none"> • Mono cropping systems | -- | Dryland IFS system – 10,000/- |

| 1 | 2 | 3 | 4 | 5 |
|-------------------------------------|--|---|----|---|
| Rameshwara Honnali taluk | Enterprise Onion storage structure | <ul style="list-style-type: none"> Lack of storage structure | -- | <ul style="list-style-type: none"> 30 x 12 feet, centre roofing height 9 feet (2 No.) Convergence mode with Dept. of Horticulture Total Cost Rs. 1,75,000/- (Subsidy Rs. 87,500/-) Implemented through FPO |
| | Vermicompost unit | <ul style="list-style-type: none"> Deteriorated soil fertility Burning of agriculture residues | -- | <ul style="list-style-type: none"> Construction 10 No. of units Training and method demonstration Convergence mode with Dept. of Horticulture Total cost Rs. 60,000/- (Subsidy Rs. 30,000/-) |
| | Natural resource management – cleaning of water ways | <ul style="list-style-type: none"> Water stagnation in farmers field Low yield of field crops | -- | <ul style="list-style-type: none"> Clearing of water way leading to village tank (widening and deepening) in convergence mode - Rs. 2,00,000/- |
| | Village tank | <ul style="list-style-type: none"> Silt accumulation Reduction in Storage capacity Weed menace | -- | <ul style="list-style-type: none"> De-silting and deepening of village tank (26 acre) in convergence mode - Rs. 5,00,000/- Application of tank silt to farm field |
| | Farm ponds | <ul style="list-style-type: none"> No protective irrigation during critical stages of crop growth | -- | <ul style="list-style-type: none"> Construction of farm pond (10 No.) in convergence mode - Rs. 2,00,000/- |
| | Capacity building | <ul style="list-style-type: none"> Unorganised approach in production and marketing | -- | <ul style="list-style-type: none"> FPO strengthening |

| 1 | 2 | 3 | 4 | 5 |
|--------------------------------|-----------|--|--------|---|
| Marikunte Jagalur taluk | Maize | <ul style="list-style-type: none"> • No intercrop • Fall army worm • Imbalanced nutrient management • Moisture stress at critical stage of crop growth | 310 ha | <p>FLD – Intercropping of pulses with (Redgram BRG-5) in Maize</p> <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Importance of seed treatment for higher yield in intercropping system - Integrated pest management in Maize + Redgram • Method demonstrations <ul style="list-style-type: none"> - Seed treatment with biofertilizers - Installation of pheromone traps • Extension activities <ul style="list-style-type: none"> - Farm pond construction with convergence mode |
| | Cotton | <ul style="list-style-type: none"> • Improper nutrient management • Sucking pest and pink boll worm • Square dropping and leaf reddening | 27 ha | <p>FLD – Integrated Crop Management in Cotton</p> <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Advanced production technologies in Cotton • Method demonstrations <ul style="list-style-type: none"> - Installation of yellow sticky traps - Preparation of spraying solutions • Extension activities |
| | Groundnut | <ul style="list-style-type: none"> • Imbalanced nutrient management • Collar rot • Use of TMV-2 variety | 20 ha | <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Improved production technology for higher yield - Integrated Nutrient Management - Integrated Disease Management • Method demonstrations <ul style="list-style-type: none"> - Seed treatment with biofertilizers - Use of stripper • Extension activities |
| | Arecanut | <ul style="list-style-type: none"> • Imbalanced nutrient management • Inflorescence die back • No intercropping | 30 ha | <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Production technology of Arecanut • Method demonstrations <ul style="list-style-type: none"> - Method of placing fertilizers - Foliar spray of micronutrients • Extension activities |

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|--------------|---|---------|--|
| Chilli | <ul style="list-style-type: none"> • Imbalanced nutrient management • No IPDM practices | 13 ha | <p>FLD – Micronutrient management in Chilli</p> <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Integrated Crop Management in Chilli • Method demonstrations <ul style="list-style-type: none"> - Seed treatment with biofertilizers - Installation of pheromone traps • Extension activities |
| Fingermillet | <ul style="list-style-type: none"> • Imbalanced nutrient management • Stem borer | 17 ha | <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Integrated Crop Management in Fingermillet • Method demonstrations <ul style="list-style-type: none"> - Spraying of WSF • Extension activities |
| Drumstick | <ul style="list-style-type: none"> • Monocropping of Maize | -- | <p>OFT – Assessment of crop management strategies in drumstick for higher yield</p> <p>FLD – Demonstration on Drumstick variety KDM-1 (Bhagya)</p> <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Advanced production technologies in Drumstick • Method demonstrations <ul style="list-style-type: none"> - Pinching to 3 feet height • Extension activities |
| Dairying | <ul style="list-style-type: none"> • Low milk yield • Poor feeding due to shortage of fodder • Delayed puberty | 124 No. | <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Use of Non-protein nitrogenous (NPN) substances in reducing the feeding cost in dairy animals - Importance of colostrums and milk feeding to crossbred female calves • Method demonstrations <ul style="list-style-type: none"> - Dry fodder enrichment & feeding along with grain mixture - Silage making methods - Azolla production |

| | | | | |
|--|-------|---|---------|--|
| | Sheep | <ul style="list-style-type: none"> • Low body weight gain • Under nutrition • Worm infestation | 950 No. | FLD – Balanced feeding and Total deworming in small ruminants for better performance <ul style="list-style-type: none"> • Training <ul style="list-style-type: none"> - Effect of total deworming and balanced nutrition in small ruminants • Method demonstrations <ul style="list-style-type: none"> - Preparation of compounded feeds for sheep • Extension activities |
| | IFS | <ul style="list-style-type: none"> • Mono cropping systems | -- | Dryland IFS system – 10,000/- |

| 1 | 2 | 3 | 4 | 5 |
|--------------------------------|---|--|----|--|
| Marikunte Jagalur taluk | Natural resource management borewell recharge | <ul style="list-style-type: none"> • Depleted ground water level | -- | <ul style="list-style-type: none"> • Rain water harvest to recharge borewells (2 No.) in convergence mode - Rs. 60,000/- |
| | Natural resource management | <ul style="list-style-type: none"> • Soil and water erosion | -- | <ul style="list-style-type: none"> • Formation of trench cum bund (20 ha) in convergence mode - Rs. 2,00,000/- |
| | Farm ponds | <ul style="list-style-type: none"> • No protective irrigation during critical stages of crop growth | -- | <ul style="list-style-type: none"> • Construction of farm pond (10 No.) in convergence mode - Rs. 2,00,000/- |
| | Village tank | <ul style="list-style-type: none"> • Insufficient water | -- | <ul style="list-style-type: none"> • Filling of tank with river water (Tungabhadra – Convergence) |
| | Capacity building | <ul style="list-style-type: none"> • Unorganised approach in production and marketing | -- | <ul style="list-style-type: none"> • FPO strengthening |

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 | Black pepper | <ul style="list-style-type: none"> Lack of knowledge on suitable intercrop Less return in existing intercrops Fluctuation in prices | Assessment of different varieties of Black pepper as intercrop in Arecanut gardens | T ₁ | No intercrop | -- | -- | -- | 03 | 30,000/- | <ul style="list-style-type: none"> Plant height (cm) No. of leaves (No.) Incidence of pest and disease (%) | SMS (Horticulture) SMS (Soil Science) SSH |
| | | | | T ₂ - Panniyur-4 | KAU | Seedlings | 200 No | 3000/- | | | | |
| | | | | T ₃ - Coorg Excel | CHES, Chettalli | Seedlings | 200 No | 3000/- | | | | |
| | | | | T ₄ - IISR-Thevam | IISR Calicut | Seedlings | 200 No | 4000/- | | | | |

| 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 |
|---------|------------------|---|--|--|----------------------|------------------------|-------------------|----------------------|---------------|------------------|--|---|
| 5.2 | Drumstick | <ul style="list-style-type: none"> Improper nutrient management Flower and fruit dropping | Assessment of crop management strategies in drumstick for higher yield | T ₁ Soil application of 100 g 15:15:15/plant along with FYM + Remaining ICM practices | -- | -- | -- | -- | 05 | 4000/- | <ul style="list-style-type: none"> Yield (q/ha) No. of pods/plant (No.) Pod length (cm) | SMS (Soil Science) SMS (Horticulture) SSH |
| | | | | T ₂ - Soil test based application of 54:134:32 N:P ₂ O ₅ :K ₂ O / plant along with FYM +Remaining ICM practices | UHS, Bagalkot | -- | -- | -- | | | | |
| | | | | T ₃ - Soil test based fertilizer application of 45:15:30 g of N:P ₂ O ₅ :K ₂ O/plant along with FYM + 0.4% Micronutrient mixture + 20ppm NAA (2 spays at flower initiation and 10 days after first spray) +Remaining ICM practices | TNAU, Coimbatore | Micronutrient mixture | 500 ml | 400/- | | | | |

| 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 |
|---------|------------------|---|--|--|----------------------|------------------------|-------------------|----------------------|---------------|------------------|---|---|
| 5.3 | Compost culture | <ul style="list-style-type: none"> • Improper disposal of arecanut husk • High lignin content • Lack of awareness on composting methods • Non availability of suitable microbial consortium | Evaluation of performance of different compost cultures to decompose arecanut husk | <p>T₁- Dispose of arecanut husk in road sides</p> <p>T₂- Composting the arecanut husk in a proper way by using UAS, Dharwad compost culture @ 2kg/t</p> <p>T₃- Composting the arecanut husk in a proper way by using decomposer compost culture @ 100 ml/t</p> <p>T₄- Composting the arecanut husk in a proper way by using UAHS, Shivamogga compost culture @ 2kg/t</p> | -- | -- | -- | -- | 05 | 5000/- | <ul style="list-style-type: none"> • Numbers of days to compost (No.) • C:N Ratio | SMS (Agronomy) SMS (Horticulture) SMS (Soil Science) SSH |

| 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 |
|---------|------------------|--|---|--|----------------------|------------------------|-------------------|----------------------|---------------|------------------|--|--|
| 5.4 | Dairy | Generally dairy animals are fed with poor quality dry roughages along with a few feed ingredients. These fodders when fed to high yielding dairy animals would not support production and health due to deficiency of Protein, energy & minerals. Poor quality dry roughages when enriched with urea and fed along with Grain mixture (starch) improving the digestibility of dry roughages and supplied the crude protein & Energy(TDN) required by the animal. | Effect of feeding urea-treated dry fodders along with grain mixture for better performance in dairy animals | <p>T1- Feeding dairy with low quality dry roughages and non-leguminous green fodders along with cake and bran items.</p> <p>T2- Feeding dairy animals with urea-treated dry roughages, green fodders and compounded animal feeds as per the NRC Specifications</p> <p>T3- Feeding dairy animals with urea-treated dry roughages, green fodders and compounded animal feeds as per the NRC specifications. PLUS using 1-2 kg grain mixture at the time of feeding urea-treated dry roughages</p> | -- | -- | -- | -- | 05 | 12,200/- | <ul style="list-style-type: none"> • Milk yield (Liters) • Specific gravity of milk (CLR) • Cost of milk production (Rs./l) | SMS (Animal Science) SMS (Agri. Extension) SSH |

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 |
|---------|----------|------------------|--|---|-------------------------|----------------|----------------------|
| 6.1.1 | Cereals | Rice | <ul style="list-style-type: none"> • Non availability of water for timely operation • Tail enders • Higher cost of production (65,000 ha) • Poor soil health • Indiscriminate use of fertilizers (150:80:30 kg N:P₂O₅:K₂/ha) | <p>Demonstration on Direct Seeded Rice</p> <p>Land Preparation and Sowing :</p> <ul style="list-style-type: none"> ✓ Land should be leveled and brought to fine tilth ✓ Seed rate–25 kg/ha ✓ Seed treatment with Bio Fertilizers (<i>Azospirillum</i>, PSB and KSB) ✓ Application of ZnSO₄ @20kg/ha <p>Integrated Weed Management:</p> <p>Pre-Emergent: (2-3 DAS)-Pendimethilin 30EC 1 l/ha -500 to liter of water (grasses***, broad leaf**, Sedges*)</p> <p>Post emergent : (15-20 DAS) Bispyribac Sodium 100 SC – (grasses***, broad leaf**, Sedges*) 250 ml + Metsulfuron 20 WP (Broad leaf) – 20 g/ha.</p> <ul style="list-style-type: none"> ✓ Cycle weeder –power operated and bullock drawn , Hand weeding <p>Plant Protection Measures:</p> <ul style="list-style-type: none"> ✓ Installation of pheromone traps @ 12 no/ha (24 lures)-Army worm (<i>Mythimna seperata</i>) ✓ Use of tricho cards @ 20 /acre ✓ Spraying of Chemicals | RNR-1 (Private variety) | -- | UAS (R) |

| Name of critical input | Qty per demo | Cost per demo (Rs.) | No. of demos | Total cost for the demo (Rs.) | Parameters to be studied | Team members |
|---|--------------|---------------------|--------------|-------------------------------|---|---|
| Bio fertilizer | 1 kg | 100/- | 10 | 38,500/- | <ul style="list-style-type: none"> • Yield (q/ha) • No. of plants/Sqm • Plant height (cm) • No. of productive tillers (No.) • Test weight 1000 seeds (g) | SMS (Agronomy) SMS (Soil Science) SSH |
| Hiring charges of seed cum fertilizer drill | -- | 1500/- | | | | |
| Installation of pheromone traps @ 4 No./acre (8 lures) – Army worm (<i>Mythimna seperata</i>) + Tricho cards (15 No) | -- | 300/- | | | | |
| ZnSO ₄ | 8 kg | 250/- | | | | |
| Pendimethilin 30 EC (Pre-emergent 2-3 DAS) | 0.5 l | 200/- | | | | |
| Power weeder hiring charges | -- | 500/- | | | | |
| Bispyribac Sodium 100 SC (Post Emergent) -Grasses and Sedges -15-20 DAS -100 ml + Metsulfuron 20 WP (Broad leaf) 15 -20 DAS- 8 g or cyhalofop-butyl+penoxulam 1 liter per acre grasses | -- | 500/- | | | | |
| Use of thrasher for cutting of the paddy stubbles | -- | 500/- | | | | |
| Total | | 3,850/- | | | | |

| Sl. No. | Category | Crop/enterprise | Prioritized problem | Technology to be demonstrated | Name of variety | Name of hybrid | Source of technology |
|---------|----------|-----------------|---|---|-----------------|----------------|----------------------|
| 6.1.2 | Cereals | Maize + Redgram | <ul style="list-style-type: none"> • Army worm incidence and fall army worm (60-100%) • No intercropping with pulses (90%) • Yield loss with sole crop upto 80% • Affected area – 500 ha • Soil health deterioration due to monocropping | <p>Intercropping of pulses (Redgram BRG-5) in Maize</p> <ul style="list-style-type: none"> ✓ Sowing of Redgram as an intercrop in maize (8:1) ✓ Spacing of 60X30 cm for maize and 60x60 cm ✓ Management (Spray with Chloropyripous @ 2ml/l (Stem Borer) and Mancozeb-2.5 g/l (Downey mildew) for Maize) ✓ BRG-5 medium duration wilt tolerant variety ✓ Use of biofertilizers <i>Rhizobium</i>, PSB and VAM 1 kg each/ha ✓ Spray Pulse magic (UAS, Raichur) 10 g/l @ 5 kg/ha ✓ Nipping after 70 days after sowing DAS <p>Pod borer management</p> <ul style="list-style-type: none"> ✓ Installation of pheromone traps @ 8no. / ha (16 lures)- pod borer ✓ Installation of pheromone traps @ 12 no/ha (24 lures)-Army worm (<i>Mythimna seperata</i>) <p>Fall army worm management</p> <ul style="list-style-type: none"> ✓ Spray with profenophos @ 2ml/l-Ovicidal- 1 l/ha ✓ Preparation of Poison bait (20 kg rice bran + 2 kg Jaggery+Chloro+Cyper (250 ml)) | BRG-5 | Private hybrid | UAHS (S) |

| Name of critical input | Qty per demo | Cost per demo (Rs.) | No. of demos | Total cost for the demo (Rs.) | Parameters to be studied | Team members |
|--|--------------|---------------------|--------------|-------------------------------|---|---|
| Redgram BRG-5 | 3 kg | 300/- | 25 | 37,500/- | <ul style="list-style-type: none"> Yield (q/ha) [Maize + Redgram] No. of rows/cob (No.) [Maize] No. of pods/plant (No.) [Redgram] Incidence of pod borer & wilt (%) | SMS (Agronomy) SMS (Soil Science) SSH |
| ZnSO ₄ | 4 kg | 200/- | | | | |
| Pulse magic | 2 kg | 500/- | | | | |
| Pheromone traps 4 No. @ lures 6 number (Pod borer) | 4 No. | 200/- | | | | |
| Pheromone traps 3 No. @ lures 6 number (Army worm) | 3 No. | 300/- | | | | |
| | | 1,500/- | | | | |

| Sl. No. | Category | Crop/enterprise | Prioritized problem | Technology to be demonstrated | Name of variety | Name of hybrid | Source of technology |
|---------|------------------|-----------------|--|--|-----------------|----------------|----------------------|
| 6.5.1 | Commercial crops | Cotton | <ul style="list-style-type: none"> Improper spacing (2¹ row spacing) Improper nutrient management (140:100:75 kg N:P₂O₅:K₂/ha) Incidence of sucking pest (10-30% yield bales) Leaf reddening (Mg deficiency) Square drying (25% yield loss) | Integrated Crop Management in Cotton <ul style="list-style-type: none"> ✓ Maintaining proper spacing (4 x 4 feet) ✓ Soil test based fertilizer application ✓ Trap crop Bhendi/Marigold (25:1) ✓ Yellow sticky traps ✓ Spraying Acetamaprid 20 SP @ 0.2 g/l against sucking pest ✓ Spraying of Planofix @ 1ml/4.5 l ✓ Spraying of MgSO₄ 1% @ 75 & 90 DAS ✓ Spraying of KNO₃ @ 1% at 90 & 110 DAS | -- | BG-II | UAHS (Shivamogga) |

| Name of critical input | Qty per demo | Cost per demo (Rs.) | No. of demos | Total cost for the demo (Rs.) | Parameters to be studied | Team members |
|------------------------|--------------|---------------------|--------------|-------------------------------|---|---|
| Yellow sticky trap | 8 No. | 400/- | 20 | 38,000/- | <ul style="list-style-type: none"> Yield (q/ha) Percent square dropping (%) Leaf reddening (%) No. of bolls/plant (No.) | SMS (Soil Science) SMS (Agronomy) SSH |
| Pheromone traps | 5 No. | 250/- | | | | |
| MgSO ₄ | 2 kg | 400/- | | | | |
| KNO ₃ | 2 kg | 400/- | | | | |
| Planofix | 100 ml | 200/- | | | | |
| Safety kit | 1 | 250/- | | | | |
| Total | | 1,900/- | | | | |

| Sl. No. | Category | Crop/enterprise | Prioritized problem | Technology to be demonstrated | Name of variety | Name of hybrid | Source of technology |
|---------|---------------------|-----------------|---|--|------------------|----------------|-----------------------------|
| 6.6.1 | Horticultural crops | Arecanut | <ul style="list-style-type: none"> No drainage (28%) Incidence of Hidimundige (45%) Lower fertility (28%) Indiscriminate use of fertilizers (150:100:100/Plant) | Integrated Pest and Disease Management in Arecanut <ul style="list-style-type: none"> ✓ For every two rows one row of 2.5-3 feet drainage ✓ Loosening of soil around plant ✓ Avoiding flood irrigation ✓ Application of RDF based on soil test ✓ <i>Trichoderma</i> enriched organic manure ✓ Intercrop with velvet beans | Channagiri local | -- | AICRP Arecanut (Shivamogga) |

| Name of critical input | Qty per demo | Cost per demo (Rs.) | No. of demos | Total cost for the demo (Rs.) | Parameters to be studied | Team members |
|------------------------------|--------------|---------------------|--------------|-------------------------------|---|---|
| <i>Trichoderma harzianum</i> | 21 | 600/- | 10 | 15,000/- | <ul style="list-style-type: none"> Yield (q/ha) Percent incidence of Hidimundige Percent of nut splitting and dropping | SMS (Horticulture) SMS (Soil Science) SSH |
| Mucuna | 5 kg | 900/- | | | | |
| Total | | 1,500/- | | | | |

| Sl. No. | Category | Crop/enterprise | Prioritized problem | Technology to be demonstrated | Name of variety | Name of hybrid | Source of technology |
|---------|---------------------|-----------------|---|---|-----------------|----------------|----------------------|
| 6.6.2 | Horticultural crops | Betelvine | <ul style="list-style-type: none"> • Incidence of downey mildew (8%) • Sucking insect damage (15%) • Mealy bug for standard (32%) • Imbalance nutrition (17:17:17 @ 100 g/vine) | Wilt management in Betelvine <ul style="list-style-type: none"> ✓ Recommended RDF (0:50:50 g NPK/Vine) ✓ Controlled irrigation ✓ Drenching Copper oxy chloride @ 3 g/l @ lowering of vine ✓ Drenching AMC @ 5 ml/l- Thrice ✓ Spraying <i>Verticillium lecaniae</i> @ 5 ml /l | Nagaveni | -- | IIHR, Bengaluru |

| Name of critical input | Qty per demo | Cost per demo (Rs.) | No. of demos | Total cost for the demo (Rs.) | Parameters to be studied | Team members |
|---------------------------|--------------|---------------------|--------------|-------------------------------|--|---|
| Arka Microbial Consortium | 2 l | 500/- | 10 | 9,500/- | <ul style="list-style-type: none"> • Yield (q/ha) • Percent of Wilt incidence (%) • Incidence of sucking pest (%) | SMS (Horticulture) SMS (Soil Science) SSH |
| Verticillium lecaniae | 1 l | 450/- | | | | |
| Total | | 950/- | | | | |

| Sl. No. | Category | Crop/enterprise | Prioritized problem | Technology to be demonstrated | Name of variety | Name of hybrid | Source of technology |
|---------|---------------------|-----------------|--|---|-----------------|----------------|---------------------------------------|
| 6.6.3 | Horticultural crops | Onion | <ul style="list-style-type: none"> • Use of Nyamathi local variety • Incidence of purple blotch (20%) • Incidence of thrips (15%) | Micronutrient management in Onion <ul style="list-style-type: none"> ✓ Use of Bhima Super variety (10 kg/ha) ✓ Application of gypsum (as source of sulphur) @ 2.5 q/ha ✓ Seed treatment with <i>Trichoderma harzianum</i> @ 4 g/kg ✓ Use of post emergent herbicide (Oxyfluorfen 23.5% EC @ 300 g/acre) ✓ Foliar nutrition with Arka Vegetable Special & water soluble fertilizers (30 and 60 DAT) @ 5 g/l ✓ 2 rows of maize as barrier crop to manage adult thrips ✓ Spray with Fipronil @ 1 ml/l to control sucking pest ✓ Spray with Hexaconazole @ 1 ml/l to purple blotch | Bhima super | -- | AICRP on Onion and Garlic, RC, Hiriya |

| Name of critical input | Qty per demo | Cost per demo (Rs.) | No. of demos | Total cost for the demo (Rs.) | Parameters to be studied | Team members |
|------------------------------|--------------|---------------------|--------------|-------------------------------|---|---|
| <i>Trichoderma harzianum</i> | 1 l | 300/- | 20 | 14,000/- | <ul style="list-style-type: none"> • Yield (q/ha) • Germination of seed (%) • Weight of bulb (g) | SMS (Horticulture) SMS (Soil Science) SSH |
| Arka vegetable special | 2 kg | 400/- | | | | |
| Total | | 700/- | | | | |

| Sl. No. | Category | Crop/enterprise | Prioritized problem | Technology to be demonstrated | Name of variety | Name of hybrid | Source of technology |
|---------|---------------------|-----------------|---|--|-----------------|----------------|----------------------|
| 6.6.4 | Horticultural crops | Chilli | <ul style="list-style-type: none"> Improper nutrient management (70:100:40 kg N:P₂O₅:K₂/ha) Calcium, Boron and Zinc deficiency (20% yield loss) Incidence of sucking pest (20-60% yield loss) | Micronutrient management in Chilli <ul style="list-style-type: none"> ✓ Weather based agronomic practices ✓ Soil test based nutrient application ✓ Application of Arka Microbial Consortium (10 ml for seed treatment, 10ml/l – drenching 10 DAT, 3 ml- Main field along with vermicompost) ✓ Spray of vegetable special @ 5g/l ✓ Spray of calcium + boron (Calbor) @ 5ml/l ✓ Use of yellow and blue sticky traps @ 25/ha ✓ Need based plant protection measures | -- | Private | IIHR, Bengaluru |

| Name of critical input | Qty per demo | Cost per demo (Rs.) | No. of demos | Total cost for the demo (Rs.) | Parameters to be studied | Team members |
|-------------------------------------|--------------|---------------------|--------------|-------------------------------|--|---|
| Arka Microbial Consortium | 3 l | 750/- | 10 | 31,000/- | <ul style="list-style-type: none"> Yield (q/ha) No. of fruits/plant (No.) Plant height (cm) Incidence of leaf curl (%) | SMS (Soil Science) SMS (Horticulture) SSH |
| Vegetable special | 4 kg | 800/- | | | | |
| Calcium + Boron | 1 l | 400/- | | | | |
| <i>Verticillium lecanii</i> | 1 l | 400/- | | | | |
| Yellow sticky and blue sticky traps | 10 No. | 500/- | | | | |
| Safety kit | 1 No. | 250/- | | | | |
| Total | | 3,100/- | | | | |

| Sl. No. | Category | Crop/enterprise | Prioritized problem | Technology to be demonstrated | Name of variety | Name of hybrid | Source of technology |
|---------|---------------------|-----------------|---|--|-----------------|----------------|----------------------|
| 6.6.5 | Horticultural crops | Drumstick | <ul style="list-style-type: none"> • Reduced ground water level (800 feet) • Mono cropping of maize | Demonstration on Drumstick variety KDM-1 (Bhagya) <ul style="list-style-type: none"> ✓ Demonstration of KDM-1 (Bhagya) variety ✓ Soil test based fertilizer application ✓ Intercropping with pulses/groundnut ✓ Need based plant protection measures ✓ Market intervention | KDM-1 (Bhagya) | -- | UAHS, Shivamogga |

| Name of critical input | Qty per demo | Cost per demo (Rs.) | No. of demos | Total cost for the demo (Rs.) | Parameters to be studied | Team members |
|-----------------------------|--------------|---------------------|--------------|-------------------------------|--|---|
| Seedlings of KDM-1 (Bhagya) | 600 No. | 6000/- | 3 | 18,000/- | <ul style="list-style-type: none"> • Yield (q/ha) • Number of pods/plant | SMS (Soil Science) SMS (Horticulture) SSH |
| Total | | 6,000/- | | | | |

| Sl. No. | Category | Crop/enterprise | Prioritized problem | Technology to be demonstrated | Name of variety | Name of hybrid | Source of technology |
|---------|---------------------|-----------------|--|---|-----------------|----------------|----------------------|
| 6.6.6 | Horticultural crops | Banana | <ul style="list-style-type: none"> Higher incidence of sigatoka leaf spot | Management of Sigatoka leaf spot disease in Banana <ul style="list-style-type: none"> ✓ Removal of affected leaves and burning ✓ Planting of seedlings in recommended spacing (6 x 6). ✓ Adaptation of drainage system ✓ Spraying of fungicides with p ✓ Repeat the spray depending upon incidence ✓ Soil application of trichoderma | Grandnaine | -- | UAHS, Shivamogga |

| Name of critical input | Qty per demo | Cost per demo (Rs.) | No. of demos | Total cost for the demo (Rs.) | Parameters to be studied | Team members |
|-----------------------------|--------------|---------------------|--------------|-------------------------------|--|---|
| Propiconazole | 500 l | 700/- | 5 | 12500/- | <ul style="list-style-type: none"> Yield (t/ha) % incidence of leaf spot | SMS (Plant Protection) SMS (Horticulture) SMS (Soil Science) SSH |
| Petroleum based mineral oil | 2 l | 1800/- | | | | |
| Total | | 2,500/- | | | | |

| Sl. No. | Category | Crop/enterprise | Prioritized problem | Technology to be demonstrated | Name of variety | Name of hybrid | Source of technology |
|---------|-----------|-----------------|---|--|-----------------|----------------|----------------------|
| 6.7.1 | Livestock | Dairy animals | <ul style="list-style-type: none"> Weakness Infertility problem (50-60% of the breedable population) Low milk yield (4-5 /milk/day/animal) | Feeding dairy animals based on Indian Standards for better performance <ul style="list-style-type: none"> ✓ Timely Deworming and vaccination ✓ Use of compounded feed, minerals and vitamins required for body maintenance & production as per Feeding standards ✓ Dry fodder enrichment ✓ Silage making, ✓ Azolla cultivation & Use | - | HFX | KVAFSU, Bidar |

| Name of critical input | Qty per demo | Cost per demo (Rs.) | No. of demos | Total cost for the demo (Rs.) | Parameters to be studied | Team members |
|------------------------------------|--------------|---------------------|--------------|-------------------------------|---|--|
| Hitek bolus (3 g) | 1No. | 60/- | 20 | 57,800/- | <ul style="list-style-type: none"> • Milk yield (l/lactation) • Milk quality (Specific gravity) • Cost of feeding (Rs/l) • No. of AI/AIs for conceiving | SMS (Animal Science) SSH SMS (Agri. Extension) |
| Chelated Agrimin forte | 5 kg | 600/- | | | | |
| Enzymex powder @ 5 g/kg dry fodder | 1 kg | 180/- | | | | |
| Brolaytine tonic @ 2 ml/kg fodder | 500 ml | 450/- | | | | |
| Plastic Drums (250 l) | 2 No. | 1600/- | | | | |
| Total | | 2,890/- | | | | |

| Sl. No. | Category | Crop/enterprise | Prioritized problem | Technology to be demonstrated | Name of variety | Name of hybrid | Source of technology |
|---------|-----------|-----------------|--|--|-----------------|----------------|----------------------|
| 6.7.2 | Livestock | Small ruminants | <ul style="list-style-type: none"> • Lower body weight gain (18-20 kg at maturity) • Sudden mortality • Delayed puberty (Maturity @ 15-18 months) | <p>Controlling parasitic infestations and feeding small ruminants based on Indian standards for better performance</p> <ul style="list-style-type: none"> ✓ Balanced feeding based on standards ✓ Timely Deworming & Vaccination ✓ Use of special mineral mixtures & liver tonic | - | Bellaryx | KVAFSU, Bidar |

| Name of critical input | Qty per demo | Cost per demo (Rs.) | No. of demos | Total cost for the demo (Rs.) | Parameters to be studied | Team members |
|---|--------------|---------------------|--------------|-------------------------------|---|--|
| Fenbendazole (150 mg) | 20 No. | 100/- | 10 | 13,000/- | <ul style="list-style-type: none"> • Body weight gain (kg) • Mortality rate (%) • Cost of meat production (Rs./kg) | SMS (Animal Science) SSH SMS (Agri. Extension) |
| Mineral mixture for sheep & goat (5 g/day/animal) | 5 kg | 600/- | | | | |
| Liver tonic (K-Live – 5 ml/day/animal) | 5 l | 600/- | | | | |
| Total | | 1,300/- | | | | |

| Sl. No. | Category | Crop/enterprise | Prioritized problem | Technology to be demonstrated | Name of variety | Name of hybrid | Source of technology |
|---------|-----------|--------------------------|--|---|-----------------|----------------|----------------------|
| 6.7.3 | Livestock | Cross bred female calves | <ul style="list-style-type: none"> Weakness Pot belly (120-130 kg @ 1 year) Lower body weight gain & delayed puberty (Takes 3 years to come to puberty) | Feeding colostrums and milk to female calves during early stage <ul style="list-style-type: none"> ✓ Colostrums feeding methods ✓ Deworming and vaccination ✓ Use of Milk Replacer ✓ Calf starter essential minerals and vitamins required for growth. | - | -- | KVAFSU, Bidar |

| Name of critical input | Qty per demo | Cost per demo (Rs.) | No. of demos | Total cost for the demo (Rs.) | Parameters to be studied | Team members |
|--|--------------|---------------------|--------------|-------------------------------|--|--|
| Fentos (600 mg) | 2 No. | 50/- | 10 | 21,500/- | <ul style="list-style-type: none"> Body weight gain (kg) Cost of feeding (Rs/day) Age at puberty (months) | SMS (Animal Science) SSH SMS (Agri. Extension) |
| Agrimim forte (@ 25-30 g/day) | 5 kg | 600/- | | | | |
| Milk replacer | 2 kg | 300/- | | | | |
| Calf starter (Compounded feed @ 300-500 g/day) | 40 kg | 1200/- | | | | |
| Total | | 2,150/- | | | | |

| Sl. No. | Category | Crop/ enterprise | Prioritized problem | Technology to be demonstrated | Name of variety | Name of hybrid | Source of technology |
|---------|-----------|------------------|---|--|--|----------------|----------------------|
| 6.8.1 | Fisheries | Fish | <ul style="list-style-type: none"> • Low yield (8-10 q/ha) | <p>Integrated management of fish culture in ponds</p> <ul style="list-style-type: none"> ✓ Pond preparation and management ✓ Seed selection and stocking ✓ Feed and feeding management ✓ Health and water quality monitoring and harvesting | <i>Catla, Rohu, Common carp, Silver carp, Pangassius</i> | -- | KVAFSU, Bidar |

| Name of critical input | Qty per demo | Cost per demo (Rs.) | No. of demos | Total cost for the demo (Rs.) | Parameters to be studied | Team members |
|-------------------------------|--------------|---------------------|--------------|-------------------------------|---|------------------------------|
| Fish seeds | 5000 No. | 5000/- | 5 | 27,500/- | <ul style="list-style-type: none"> • Yield (t/ha) • Average body weight (g) | SSH SMS (Agri. Extension) |
| Area Specific Mineral Mixture | 5 kg | 500/- | | | | |
| Total | | 5,500/- | | | | |

8. 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 | Groundnut | OFT | Improved production technology for higher yield | 01 | 30 | SMS (Ag & SS) |
| | | Groundnut | OFT | Integrated Nutrient management | 01 | 40 | SMS (Ag & SS) |
| | | Rice | FLD | Land preparation and selection of varieties, Seed treatment for DSR | 01 | 25 | SMS (Ag & SS) |
| | | Maize + Redgram | FLD | Importance of seed treatment for higher yield in intercropping system | 01 | 25 | SMS (Ag & SS) |
| | | Cotton | FLD | Advanced production technologies of cotton | 1 | 25 | SMS (SS, Ag & AE) |
| 7.2 | Horticulture production | Arecanut | FLD | Production technology of Arecanut | 02 | 50 | SMS (Hort. & SS) |
| | | Banana | FLD | Integrated Pest & Disease Management Banana | 02 | 50 | SMS (PP & Hort.) |
| | | Betel vine | FLD | Recent trends in Production technology of Betelvine | 01 | 30 | SMS (Hort. & SS) |
| | | Onion | FLD | Integrated crop Management in Onion | 01 | 30 | SMS (Hort. & SS) |
| | | Black Pepper | OFT | Production technology of Pepper | 01 | 30 | SMS (Hort. & SS) |
| | | Drumstick | OFT & FLD | Advanced production technologies of Drumstick | 1 | 25 | SMS (SS, Hort. & AE) |
| | | Chilli | FLD | Integrated crop management in Chilli | 1 | 25 | SMS (SS, Hort. & AE) |
| 7.3 | Livestock production | Dairy | FLD | Use of Non-protein nitrogenous (NPN) substances in reducing the feeding cost in dairy animals | 2 | 60 | SMS (ASc., AE & SSH) |
| | | Dairy | FLD | Importance of colostrums and milk feeding to crossbred female calves | 2 | 60 | SMS (ASc., AE & SSH) |
| | | Sheep & Goat | FLD | Effect of total deworming and balanced nutrition in small ruminants | 2 | 50 | SMS (ASc., AE & SSH) |
| | | Dairy | FLD | Balancing the nutrition in cattle based on feeding standards | 2 | 60 | SMS (ASc., AE & SSH) |

| 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 |
|--------------|--|--|--------------------------------------|---|----------------|------------------------------|------------------------------------|
| 7.4 | Home Science | -- | -- | -- | -- | -- | -- |
| 7.5 | Plant protection | Maize + Redgram | FLD | Integrated pest management in Maize +Redgram | 01 | 25 | SMS (Ag & SS) |
| | | Rice | FLD | IPM for the Stem borer and BPH | 01 | 25 | SMS (Ag & SS) |
| 7.6 | Production of inputs at site | -- | -- | -- | -- | -- | -- |
| 7.7 | Soil health and fertility | -- | -- | Soil health management based on soil analysis report | 05 | 125 | SMS (SS & AE) |
| | | Arecanut | OFT | Rapid composting of arecanut husk by using compost cultures | 01 | 25 | SMS (SS, Hort. & AE) |
| 7.8 | PHT and value addition | Groundnut | OFT | Grading and oil extraction | 01 | 35 | SMS (Ag & SS) |
| 7.9 | Capacity building/ group dynamics | -- | -- | -- | -- | -- | -- |
| 7.10 | Farm mechanization | Groundnut | OFT | Mechanized harvesting using stripper | 01 | 30 | SMS (Ag & SS) |
| | | Rice | FLD | Weed management through Mechanized cycle weeder | 01 | 25 | SMS (Ag & SS) |
| | | Maize + Redgram | FLD | Integrated pest management in Maize +Redgram | 01 | 25 | SMS (Ag & SS) |
| 7.11 | Fisheries production technologies | Fish | FLD | Principles of fish farming | 01 | 10 | Senior Scientist & Head |
| 7.12 | Mushroom production | Mushroom | -- | Production and marketing of Mushroom | 01 | 50 | SMS (AE) |
| 7.13 | Agro forestry | Sandalwood & Other forestry technologies | -- | Production technology of sandalwood | 01 | 50 | SMS (AE) |
| 7.14 | Bee keeping | Honey bee | -- | Production technology of Honey | 01 | 25 | SMS (AE) |
| 7.15 | Sericulture | -- | -- | -- | -- | -- | -- |
| Total | | | | | 36 | 1015 | -- |

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 | Vermicompost | EDP | Improved Production of technology of vermicompost | 01 | 25 | SMS (Ag, SS & ASc.) |
| 8.2 | Horticulture production | Coconut | Skill Development | Friends of Coconut Tree | 01 | 20 | SMS (Hort. & SS) |
| 8.3 | Livestock production | Sheep & Goat | EDP | Profitable sheep farming (Stall feeding) | 01 | 20 | SMS (ASc., AE & SSH) |
| | | Dairy | Skilled | Dairy entrepreneur | 01 | 20 | SMS (ASc., AE & SSH) |
| 8.4 | Home Science | -- | -- | -- | -- | -- | -- |
| 8.5 | Plant protection | -- | -- | -- | -- | -- | -- |
| 8.6 | Production of inputs at site | -- | -- | -- | -- | -- | -- |
| 8.7 | Soil health and fertility | -- | -- | Methods of soil testing and maintenance of soil and water testing laboratory | 01 | 20 | SMS (SS, Ag & AE) |
| 8.8 | PHT and value addition | -- | -- | -- | -- | -- | -- |
| 8.9 | Capacity building/ group dynamics | -- | -- | -- | -- | -- | -- |
| 8.10 | Farm mechanization | -- | -- | -- | -- | -- | -- |
| 8.11 | Fisheries production technologies | Fish | Skilled | Fish seeding in farm ponds | 01 | 10 | Senior Scientist & Head |
| 8.12 | Mushroom production | -- | -- | -- | -- | -- | -- |
| 8.13 | Agro forestry | -- | -- | -- | -- | -- | -- |
| 8.14 | Bee keeping | -- | -- | -- | -- | -- | -- |
| 8.15 | Sericulture | -- | -- | -- | -- | -- | -- |
| Total | | | | | 06 | 115 | -- |

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 production technology in Direct Seeded Rice | 01 | 20 | SMS (Ag & SS) |
| 9.2 | Home Science | -- | -- | -- | -- |
| 9.3 | Capacity building and group dynamics | -- | -- | -- | -- |
| 9.4 | Horticulture | New technologies in Horticulture crop production | 01 | 50 | SMS (Hort. & SS) |
| 9.5 | Livestock production and management | New feed resources for animal feeding | 01 | 25 | SMS (ASc., AE) & SSH) |
| 9.6 | Plant protection | -- | -- | -- | -- |
| 9.7 | Farm mechanization | Complete mechanization in transplanted paddy for higher yield | 01 | 20 | SMS (Ag & SS) |
| 9.8 | PHT and value addition | -- | -- | -- | -- |
| 9.9 | Production of inputs at site | -- | -- | -- | -- |
| 9.10 | Sericulture | Nutrient management in mulberry cultivation | 1 | 25 | SMS (SS & AE) |
| 9.11 | Fisheries | Integrated Fish farming | 01 | 40 | Senior Scientist & Head |
| | | Total | 06 | 180 | -- |

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 | -- | -- | -- | -- | -- | -- |
| 10.2 | Home Science | -- | -- | -- | -- | -- | -- |
| 10.3 | Capacity building and group Dynamics | -- | -- | -- | -- | -- | -- |
| 10.4 | Horticulture | Horticulture nursery Management | 01 | 05 | 20 | Department of Horticulture | SMS (Hort. & SS) |
| 10.5 | Livestock production and management | Rearing local poultry birds in backyard | 01 | 05 | 20 | -- | SMS (ASc., AE & SSH) |
| 10.6 | Plant protection | -- | -- | -- | -- | -- | -- |
| 10.7 | Farm mechanization | -- | -- | -- | -- | -- | -- |
| 10.8 | PHT and value addition | -- | -- | -- | -- | -- | -- |
| 10.9 | Production of inputs at site | -- | -- | -- | -- | -- | -- |
| 10.10 | Sericulture | -- | -- | -- | -- | -- | -- |
| 10.11 | Fisheries | -- | -- | -- | -- | -- | -- |
| | | Total | 02 | -- | 40 | -- | -- |

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 | LRI- based soil and water conservation technologies | 20 | 01 | 1000 | ATARI and SUJALA III, Bangalore | SMS (Ag & SS) |
| 11.2 | Home Science | -- | -- | -- | -- | -- | -- |
| 11.3 | Capacity building and group Dynamics | -- | -- | -- | -- | -- | -- |
| 11.4 | Horticulture | Terrace and Kitchen gardening | 02 | 01 | 300 | Department of Horticulture | SMS (Hort.) |
| 11.5 | Livestock production and management | Scientific dairy farming | 02 | 06 | 50 | Zilla Panchayath, Davanagere | SMS (ASc., AE) & SSH) |
| 11.6 | Plant protection | -- | -- | -- | -- | -- | -- |
| 11.7 | Farm mechanization | -- | -- | -- | -- | -- | -- |
| 11.8 | PHT and value addition | -- | -- | -- | -- | -- | -- |
| 11.9 | Production of inputs at site | -- | -- | -- | -- | -- | -- |
| 11.10 | Sericulture | -- | -- | -- | -- | -- | -- |
| 11.11 | Fisheries | Advances in fish culture | 01 | 01 | 20 | Department of Fisheries | Senior Scientist & Head |
| | | Total | 25 | -- | 1370 | -- | -- |

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 | 2000 | 2200 | All Scientists involved |
| 12.2 | Diagnostic visits | 10 | 120 | |
| 12.3 | Field days | 20 | 2500 | |
| 12.4 | Group discussions | 05 | 250 | |
| 12.5 | Kisan gosthies | 05 | 500 | |
| 12.6 | Film shows | 10 | 500 | |
| 12.7 | Self -Help Groups (SHGs) meetings | -- | -- | |
| 12.8 | Kisan Melas | 03 | | |
| 12.9 | Exhibitions | 02 | | |
| 12.10 | Scientists' visit to farmers fields | 200 | 1500 | |
| 12.11 | Plant/soil health/animal health camps | 5 + 5 | 600 samples + 500 animals | |
| 12.12 | Farm science club meetings | 01 | -- | |
| 12.13 | Ex-trainees sammelans (Meetings) | 01 | 40 | |
| 12.14 | Farmers' seminars/workshops | 06 | 300 | |
| 12.15 | Method demonstrations | 20 | 300 | |
| 12.16 | Celebration of important days | 04 | 300 | |
| 12.17 | Special day celebrations | 10 | 2000 | |
| 12.18 | Exposure visits | 04 | 200 | |
| 12.19 | Technology week celebration | 01 | 1000 | |
| 12.20 | Farmers Field School (FFS) | 01 | 25 | |
| 12.21 | Farm innovators meet | -- | -- | |
| 12.22 | Awareness programmes | 04 | 250 | |
| 12.23 | Pre-kharif campaign | 01 | 1000 | |
| 12.24 | Pre-rabi/summer campaign | 01 | 1000 | |
| 12.25 | Bimonthly Meetings | 06 | 450 | |
| 12.26 | Tri-monthly meetings | 04 | 300 | |
| 12.27 | Guest lecture | 50 | 2000 | |
| 12.28 | Popular article | 10 | -- | |
| 12.29 | News paper coverage | 60 | -- | |
| 12.30 | Swachha Bharath Campaigns | 10 | -- | |
| 12.31 | Kisan Mobile Advisory Services | 50 | 11505 | |
| 12.32 | Radio Talk | 10 | -- | |
| 12.33 | TV Talk | 08 | -- | |
| 12.34 | Newspaper Coverage | 60 | -- | |

| | | | | |
|-------|---------------------------------|----|----|--|
| 12.35 | Best cyclist | 05 | -- | |
| 12.36 | Best Farm Family | 05 | -- | |
| 12.37 | Best Village Road | 05 | -- | |
| 12.38 | Best Animal Care Taker | 05 | -- | |
| 12.39 | Best Nutritional Kitchen Garden | 05 | -- | |
| 12.40 | Best Entrepreneur | 05 | -- | |
| 12.41 | Best Women SHG | 05 | -- | |
| 12.42 | Best Men SHG | 05 | -- | |

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 | High density planting in Guava, Jack, Mango and Arecanut | 02 | -- | Farm Manager & SMS (Horticulture) |
| 13.1.2 | Demonstration units | Gold fish production | 1 unit | 10,000 | Senior Scientist and Head |
| 13.1.3 | Lab analytical services | Soil test campaigns | 5 villages | 1000 | SMS (Soil Science), Programme Assistant (Lab. Technician) |
| 13.1.4 | Technology week | Frontline demonstrations Seminars Exhibition | -- | 1000 | All team members |
| 13.1.5 | PUC students orientation | -- | -- | 300 | SMS (Horticulture) |
| 12.1.6 | FPO Capacity Building | -- | -- | 05 | SMS (Agri. Extension) |
| 12.1.7 | Science project for school children | -- | -- | 05 | All Scientific staff |
| 12.1.8 | Soil & water analysis training to degree students | -- | -- | 10 | SMS (Soil Science) & Programme Assistant (Lab. Technician) |
| 12.1.9 | DAESI diploma course | -- | -- | 40 | All Scientific staff |
| 12.1.10 | Kasa Rasa Training | -- | -- | 100 People | SMS (Animal Science) |
| 12.1.11 | Kitchen garden training | -- | -- | 100 People | SMS (Horticulture) |

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 | | | | | |
| | | -- | Sunhemp | 06 | -- | Farm Manager Programme Assistant (Lab. Technician) |
| | | -- | Dhaiancha | 08 | -- | Farm Manager Programme Assistant (Lab. Technician) |
| | | -- | Velvetbeans | 03 | -- | Farm Manager SMS (Horticulture) |
| 13.2.2 | Planting material | | | | | |
| | | -- | Arecanut | -- | 20000 | SMS (Horticulture) |
| | | -- | Coconut | -- | 5000 | SMS (Horticulture) |
| | | -- | Drumstick | -- | 15000 | SMS (Horticulture) |
| 13.2.3 | Bio-products | | | | | |
| | | -- | Banana Special | 30 | -- | SMS (Horticulture) |
| | | -- | Vermicompost | 150 | -- | SMS (Animal Science) |
| | | -- | Earthworms | 0.4 | -- | SMS (Animal Science) |
| | | -- | Compost culture | 06 | -- | SMS (Soil Science) |
| | | -- | <i>Trichoderma Harzianum</i> | 200 l | -- | SMS (Agronomy) & SMS (Soil Science) |
| | | -- | PSB | 200 l | -- | SMS (Agronomy) & SMS (Soil Science) |
| | | -- | Metarizium | 100 l | -- | SMS (Agronomy) & SMS (Soil Science) |
| 13.2.4 | Livestock strains | | | | | |
| | | -- | Male calves | -- | 5-6 No. | SMS (Animal Science) |
| 13.2.5 | Fish fingerlings | | | | | |
| | | -- | Fish fingerlings | -- | 15000 No. | Senior Scientist and Head |
| 13.2.6 | Any other | -- | -- | -- | -- | -- |

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 | | |
| | a. Agriculture | 01 (Training to agriculture officers and ATMA personnel) | SMS (Agronomy) |
| | b. Horticulture | 01 (Training to AHOs & Horticulture Assistants) | SMS (Horticulture) |
| | c. Animal Husbandry | 01 (New feed resources for animal feeding) | SMS (Animal Science) |
| | d. Fisheries | 01 (Advances in freshwater fish growing) | Senior Scientist and Head |
| | e. Agricultural Engineering | -- | -- |
| | f. Sericulture | -- | -- |
| | g. Others, pl. specify | -- | -- |
| 13.3.2 | Literature/publication | 08 | All scientific staff |
| 13.3.3 | Electronic media | 02 | All staff |
| 13.3.4 | Kisan mobile advisory services | 70 | All scientific staff |
| 13.3.5 | Information on centre/state sector schemes and service providers in the district (Data may be collected from different agencies). | 01 | SMS (Agri. Extension) |
| 12.3.6 | Whatsapp groups <ul style="list-style-type: none"> • ICAR-Taralabalu KVK • Horticulture Solution Davanagere • Horti Solutions • Davanagere FPOs | 04 | All scientific staff |

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 | National Innovations on Climate Resilient Agriculture (NICRA) | Technology Demonstration Component (TDC) | Climate Resilient Technology Demonstration | 15,00,000-00 | SMS (Agronomy) SMS (Animal Science) SSH |
| 2 | Bio-Energy Information and Demonstration Centre | Training and awareness programmes on biofuel production. Bio Seed procurement and production | Production of biodiesel – 500 l | 6,00,000-00 | Programme Assistant (Lab. Technician) |
| 3 | Technical Handholding of FPOs | Exposure visit training and Demonstrations | Demonstrations – 09 Training – 09 Exposure visit - 03 | 9,29,250 | All Scientific staff |

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 31.03.2019 (Rs. in Lakh) | Expected closing balance by 31.03.2019 (Including value of material in stock/ likely to be produced) |
|---|--|--|---|---|
| 2.66 | 54.64 | 67.72 | 15.74 | 5.00 |

15.2 Plan of activities under revolving fund

| Sl. No. | Proposed activities | Expected output | Anticipated income (Rs.) | Names of the team members involved |
|---------|-----------------------|-----------------|--------------------------|---|
| 1 | Sunhemp | 600 kg | 18,000/- | Farm Manager Programme Assistant (Lab. Technician) |
| 2 | Dhaiancha | 800 kg | 18,000/- | |
| 3 | Velvetbeans | 300 kg | 15,000/- | Farm Manager & SMS (Horticulture) |
| 4 | Areca nut Seedlings | 20000 No. | 5,00,000/- | SMS (Horticulture) |
| 5 | Coconut Seedlings | 5000 No. | 3,00,000/- | |
| 6 | Drumstick Seedlings | 15000 No. | 2,00,000/- | |
| 7 | Banana Special | 30 q | 5,00,000/- | |
| 8 | Vermicompost | 150 q | 1,50,000/- | SMS (Animal Science) |
| 9 | Earthworms | 0.4 q | 12,000/- | |
| 10 | Milk | 8500 l | 2,89,000/- | |
| 11 | Compost culture | 06 q | 24,000/- | SMS (Soil Science) |
| 12 | Trichoderma Harzianum | 200 l | 60,000/- | SMS (Agronomy) & SMS (Soil Science) |
| 13 | PSB | 200 l | 70,000/- | |
| 14 | Metarizium | 100 l | 40,000/- | |
| 15 | Fish fingerlings | 5000 No. | 20,000/- | Senior Scientist and Head |
| 16 | Farmers hostel | 120 days | 1,00,000/- | SMS (Agri. Extension) |
| 17 | Areca nut | 16 q | 2,00,000/- | SMS (Horticulture) & Farm Manager |
| 18 | Mango fruits | 5 t | 1,00,000/- | |
| 19 | Sapota fruits | 1.5 t | 30,000/- | |
| 20 | Coconut nuts | 500 No. | 5,000/- | |
| 21 | Jamoon | 100 kg | 8,000/- | |
| 22 | Tendor Coconut | 500 No. | 10,000/- | |
| 23 | Drumstick pods | 550 kg | 11,000/- | |
| 24 | Tamarind | 375 kg | 15,000/- | |
| 25 | Guava fruits | 200 kg | 10,000/- | |

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 | SMS (Soil Science) & Programme Assistant (Lab. Technician) |
| 16.2 | Soil test using mobile analysis kit | -- | |
| 16.3 | Water | 1000 | |

| | | | |
|------|---------------------|----|----|
| 16.4 | Plant | -- | -- |
| 16.5 | Others, pl. specify | -- | -- |

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 | Farmer advisory service | -- |
| 17.3 | Other extension activities | Month wise database maintained | |

18. Activities planned under rainwater harvesting scheme (only to those KVKs which are already having scheme under rain water harvesting) - Nil

19. Farmers Field School (FFS) planned

| Thematic area | Title of the FFS | Budget proposed in Rs. | Staff |
|----------------------------|---|------------------------|---|
| Integrated Pest Management | Integrated Pest Management in hybrid Tomato | 30,000/- | SMS (Agronomy, Horticulture, Soil Science & Agricultural Extension) |

| Thematic area | Budget proposed in Rs. | Budget (Rs.) |
|---|---|------------------|
| IPM in Tomato | A. Critical inputs | |
| | ▪ Soil test and water test | 150-00 |
| | ▪ Application of Arka Microbial Consortium (20 g for seed treatment, 20g/l – drenching 10 DAT, 7kg- Main field along with vermicompost) | 1,750-00 |
| | • Spray of vegetable special @ 5g/l (4kg) | 1,000-00 |
| | • Spray of calcium nitrate @5g/l (2kg) | 400-00 |
| | IPM measures : | |
| • Use of yellow and blue sticky traps @ 25/ha | 1,000-00 | |
| • Use of Marigold as a trap crop (16:1) | 500-00 | |
| • Use of pheromone traps @ 10/ha | 400-00 | |
| ▪ Plant protection chemicals need based | 2,500-00 | |
| B. Meals and Refreshment | | 5,000-00 |
| C. FFS training kit | | 8,300-00 |
| D. Field Day and report preparation | | 4,000-00 |
| E. Folder | | 5,000-00 |
| | | 30,000-00 |

Number of Session - 06

1. Selection of the collaborator and participants, site selection and importance of FFS and Ballot test
2. Land preparation and rain water harvesting technologies
3. Seed treatment and transplanting, Spacing and traps crops
4. Integrated Nutrient management and Weed management in Tomato
5. Integrated Pest and Disease Management
6. Grading and Marketing of products
7. Preparation of bi products from the tomato

20. Entrepreneurship Development Programme**Honey production as subsidiary income for farm families**

Honey production as subsidiary income generation activity helps in realizing additional income to rural family. In this regard 2 entrepreneurs in honey production and promoted to market honey bee colonies and honey. In addition the entrepreneurs will be provided with brood chamber, honey extractor and packing materials.

Budget requirement

| Particulars | Quantity | Cost (Rs.) | Total cost (Rs.) | No. of entrepreneurs | Total Budget (Rs.) |
|-----------------|----------|-----------------|------------------|----------------------|--------------------|
| Brood chamber | 4 | 4,500/- | 18,000/- | 2 | 50,000/- |
| Honey extractor | 1 | 5,000/- | 5,000/- | | |
| Packing | -- | 2,000/- | 2,000/- | | |
| Total | | 10,000/- | | | |

21. Details of budget utilization (2018-19) up to 31st March 2019

| (Rs.) | | | | |
|-------------|--|----------------------------|--------------------|--------------------|
| Sl.No. | Particulars | Sanctioned (RE 2018-19) | Released | Expenditure |
| 21.1 | (A). REVENUE (Recurring Contingencies) | | | |
| 21.1.1 | Pay & Allowances | 1,28,00,000 | 1,27,88,922 | 1,25,78,643 |
| 21.1.2 | Traveling allowances | 75,000 | 49,500 | 39,152 |
| 21.1.3 | Contingencies | 10,75,000 | 10,47,926 | 10,47,398 |
| 21.1.3.a | <i>Stationery, telephone, postage and other expenditure on office running, publication of Newsletter</i> | 2,31,000 | 2,31,000 | 2,30,974 |
| 21.1.3.b | <i>POL, repair of vehicles, tractor and equipments</i> | 1,80,000 | 1,80,000 | 1,79,999 |
| 21.1.3.c | <i>Food/refreshment for farmers/extension personnel @ Rs.150/person/day</i> | 1,00,000 | 1,00,000 | 1,00,000 |
| 21.1.3.d | <i>Training material (need based materials and equipments for conducting the training)</i> | 25,000 | 25,000 | 25,000 |
| 21.1.3.e | <i>Frontline demonstrations</i> | 3,20,000 | 3,10,500 | 3,10,353 |
| 21.1.3.f | <i>On farm testing (OFTs)/Technology Assessment</i> | 40,000 | 30,000 | 29,731 |
| 21.1.3.g | <i>Integrated Farming System (IFS) (Min. 5 Units)</i> | | | |
| 21.1.3.h | <i>Training of extension functionaries</i> | 14,000 | 14,000 | 14,000 |
| 21.1.3.i | <i>Extension activities/services</i> | 50,000 | 50,000 | 50,000 |
| 21.1.3.j | <i>Farmers' Field School</i> | 30,000 | 28,000 | 28,000 |
| 21.1.3.k | <i>EDP (2 Nos.) / Innovative activities</i> | | | |
| 21.1.3.l | <i>Soil & water testing & issue of soil health cards</i> | 30,000 | 24,426 | 24,415 |
| 21.1.3.m | <i>Maintenance of building</i> | 50,000 | 50,000 | 49,926 |
| 21.1.3.n | <i>Farmers Conclave, KVK Conference</i> | | | |
| 21.1.3.o | <i>Video production</i> | | | |
| 21.1.3.p | <i>Library (Purchase of Journals, Periodicals, News Papers & Magazines)</i> | 5,000 | 5,000 | 5,000 |
| | Total Recurring | 1,39,50,000 | 1,38,86,348 | 1,36,65,193 |
| 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 | 0 | 0 | 0 |
| 21.3 | (C). REVOLVING FUND | 0 | 0 | 0 |
| | GRAND TOTAL (A+B+C) | 1,39,50,000 | 1,38,86,348 | 1,36,65,193 |

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 | 1,39,00,000 |
| 22.1.2 | Traveling allowances | 2,00,000 |
| 22.1.3 | Contingencies | |
| 22.1.3.a | <i>Stationery, telephone, postage and other expenditure on office running, publication of Newsletter</i> | 3,00,000 |
| 22.1.3.b | <i>POL, repair of vehicles, tractor and equipments</i> | 3,00,000 |
| 22.1.3.c | <i>Food/refreshment for farmers / extension personnel @ Rs.150/person/day</i> | 2,00,000 |
| 22.1.3.d | <i>Training material (need based materials and equipments for conducting the training)</i> | 1,00,000 |
| 22.1.3.e | <i>Frontline demonstrations</i> | 3,33,800 |
| 22.1.3.f | <i>On farm testing (OFTs)/Technology Assessment</i> | 51,200 |
| 22.1.3.g | <i>Integrated Farming System (IFS) (Min. 5 Units)</i> | -- |
| 22.1.3.h | <i>Training of extension functionaries</i> | 50,000 |
| 22.1.3.i | <i>Extension activities/services</i> | 1,00,000 |
| 22.1.3.j | <i>Farmers' Field School</i> | 30,000 |
| 22.1.3.k | <i>EDP (5 Nos.) / innovative activities</i> | 50,000 |
| 22.1.3.l | <i>Soil & water testing & issue of soil health cards</i> | 1,00,000 |
| 22.1.3.m | <i>Maintenance of building</i> | 3,00,000 |
| 22.1.3.n | <i>Library (Purchase of Journals, Periodicals, News Papers & Magazines)</i> | 10,000 |
| 22.1.3.o | <i>Others, pl. specify</i> | |
| | Total Recurring (A) | 1,60,25,000 |
| 22.2 | (B). CAPITAL (Non-Recurring Contingencies) | |
| 22.2.1 | Equipments & Furniture | 1,04,00,000 |
| 22.2.2 | Works | 4,00,00,000 |
| 22.2.3 | Vehicle | |
| 22.2.3.a | Four wheeler (replacement) | |
| 22.2.4 | Library | 1,00,000 |
| | Total Non Recurring (B) | 5,05,00,000 |
| | Grand Total (A + B) | 6,65,25,000 |

Abstract of interventions for 2019-20

| Interventions | Number of activities | Number of farmers | Amount (Rs.) |
|---------------------------------|-----------------------------|--------------------------|---------------------|
| OFT | 04 | 18 trials | 51,200/- |
| Frontline demonstrations | 12 | 158 | 3,33,800/- |
| Trainings | | | |
| Farmers/Farm women | 36 | 1015 | -- |
| Rural Youth | 06 | 115 | -- |
| Extension personnel | 06 | 180 | -- |
| Vocational | 02 | 40 | -- |
| Sponsored | 25 | 1370 | -- |
| FFS | 01 | 25 | 30,000/- |
| EDP | 01 | 02 | 50,000/- |
| NRM | | | |
| Bore well recharge | 12 | 12 | 3,60,000/- |
| Farm ponds | 30 | 30 | 6,00,000/- |
| Trench cum bunds | 20 ha | -- | 2,00,000/- |
| Onion storage structure | 02 | -- | 1,75,000/- |
| Vermicompost unit | 10 | 10 | 6,00,000/- |
| Canal cleaning | 01 | -- | 2,00,000/- |
| De-silting | 01 | -- | 5,00,000/- |
| | | | 26,63,985/- |