

PROPOSED ACTION PLAN (2013-14)
Taralabalu KVK, Davanagere, Karnataka, Zone 8
Submitted to: Zonal Project Directorate, ICAR, Zone 8, MRS, Bangalore
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ACTION PLAN OF TARALABALU KRISHI VIGYAN KENDRA FOR 2013-14**1. General information about the Krishi Vigyan Kendra**

| | | | |
|------|---|---|---|
| 1.1 | Name and address of KVK with Phone, Fax and e-mail, Website | : | Taralabalu Krishi Vigyan Kendra Kadalivana, LIC Colony Layout, B.I.E.T. College Road DAVANAGERE-577004 Karnataka Telephone : 08192-263462 Fax : 08192-260969 E-mail : dvgtkvk@yahoo.com . Website: taralabalukvk.com |
| 1.2 | Name and address of host organization | : | Taralabalu Rural Development Foundation SIRIGERE-577541 Dist.: Chitradurga Phone: 08194 – 268829, 268842 Fax: 08194 – 268847 E – mail: trdf@taralabalu.org |
| 1.3 | Year of sanction | : | 2004 |
| 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 | Existing Pay band | Grade Pay | Date of joining | Permanent / Temporary |
|---------|---------------------------|------------------------|------------------------|-------------------|-----------|-----------------|-----------------------|
| 1. | Programme Coordinator | Dr. Devaraja T.N. | Fisheries | 37400-67000 | 9000 | 17-05-05 | Per. |
| 2. | Subject Matter Specialist | Mr. Basavanagowda M.G. | Horticulture | 15600-39100 | 5400 | 21-11-06 | Per. |
| 3. | Subject Matter Specialist | Mr. Mallikarjuna B.O. | Agronomy | 15600-39100 | 5400 | 09-01-08 | Per. |
| 4. | Subject Matter Specialist | Dr. Jayadevappa G.K. | Animal Science | 15600-39100 | 5400 | 29-01-08 | Per. |
| 5 | Subject Matter Specialist | Mr. Raghuraja J. | Agricultural Extension | 15600-39100 | 5400 | 23-06-08 | Per. |
| 6 | Subject Matter Specialist | Mr. Prasanna Kumara N. | Plant Protection | 15600-39100 | 5400 | 24-06-08 | Per. |
| 7 | Subject Matter Specialist | Vacant | Soil Science | - | - | - | - |

| | | | | | | | |
|----|---------------------------|-----------------------------------|---------------------------|------------|------|----------|------|
| 8. | Programme Assistant | Mr. Revanasiddappa G.B.P | Lab. Technician | 9300-34800 | 4200 | 11-04-12 | Per. |
| 9 | Computer Programmer | Mr. Santhosh B. | Computer | 9300-34800 | 4200 | 05-09-08 | Per. |
| 10 | Farm Manager | Mr. Vijaya Kumar S.B. | Farm Manager | 9300-34800 | 4200 | 23-06-08 | Per. |
| 11 | Accountant/Superintendent | Mr.Mallikarjuna S. Gudihindala | Assistant | 9300-34800 | 4200 | 01-06-05 | Per. |
| 12 | Stenographer | Mrs.Mamatha H.Melmalagi | Stenographer Grade-III | 5200-20200 | 2400 | 26-06-05 | Per. |
| 13 | Driver 1 | Mr.N.M.Marulasiddaiah | Driver | 5200-20200 | 2000 | 01-06-05 | Per. |
| 14 | Driver 2 | Mr.S. Shivakumar | Driver | 5200-20200 | 2000 | 01-06-05 | Per. |
| 15 | Supporting staff 1 | Mr.B. Shivakumar | Grade-I | 5200-20200 | 1800 | 01-06-05 | Per. |
| 16 | Supporting staff 2 | Mr.S.E. Shivakumar | Grade-I | 5200-20200 | 1800 | 01-06-05 | Per. |

3. Details of SAC meeting conducted during 2012-13

| Sl. No | Date | Major recommendations | Status of action taken in brief | Tentative date of SAC meeting proposed during 2013-14 |
|--------|------------|--|--|---|
| 3.1 | 04-05-2012 | Suggested to select flagship programme on banana and to conduct programmes from planting to marketing. | In this season, KVK has produced and distributed 1388 kg of banana special to 206 banana growers. KVK specialist given technical support to Comprehensive Horticulture Development Programme implemented by Horticulture Department. Established G-9 & Yallakki varieties Banana demonstration units in instructional farm incorporating scientific practices. | 11-10-2013 |
| | | Suggested to conduct programmes to retain and attract youth towards agriculture. | To attract rural youth towards agriculture, KVK has conducted 12 trainings to rural youth. Special among them were 5 trainings to Bharath Nirman Youths (146 youths) in collaboration with Taluk Panchayath, Harihara. | |

| | | | |
|--|--|---|--|
| | Frontline demonstration on mechanization in paddy transplanting to be conducted in collaboration with Agriculture Department and to collect scientific data. | Accordingly, the frontline demonstration on mechanization in paddy transplanting was conducted in collaboration with Agriculture Department (10 ha, 25 farmers) and collected scientific data. | |
| | To conduct soil test in FLD farmers fields and to give recommendations based on soil test report. | Soil samples from 136 farmers coming under FLDs were analysed and recommendations were given based on soil test report. | |
| | For large scale adaption of technologies, suggested KVK to write letter to development departments along with results. | Letter written to Department of Horticulture, Davanagere regarding results of FLD's on banana special and Arka Suvidha (French bean) for large scale adoption. | |
| | Suggested to collect scientific information on benefits of azolla. | Scientific information on the benefits of Azolla were collected, analyzed. Based on the scientific information, advisory services given to 80 farmers. | |
| | Suggested to grow seedlings in horticulture nursery in scientific method and distribute to farmers. | Horticulture seedlings were grown in shade home and maintained has demonstration unit for visiting farmers. This season Arecanut seedlings-555 No., Mango-375 No., Lemon-928 No., Sapota-220 No., Jack-23 No. and Drumstick-4090 No. were distributed to farmers. | |
| | Suggested to popularize rainfed varieties of fodder along the bunds in Siddanuru villages. | Rainfed fodder variety styloxanthus (80 kg) along the bunds were distributed to farmers in Siddanuru village. | |
| | Suggested to involve in District Comprehensive Horticulture Development programme | KVK specialists actively participated in the programme viz., field visits, selection of suckers of banana. Organized 3 workshops on 'Improved production technology in banana' for Davanagere and Harihara taluk banana growers coming under this programme. | |

| | | | | |
|---|------------|---|--|--|
| 3.2 | 16-01-2013 | Suggested to mention thrust areas by the KVK | Thrust areas are given accordingly. | |
| | | To arrange visit to NICRA village for all SAC members. | Visit to NICRA village was arranged on 5 th February 2013. 8 Members attended the same. | |
| | | Suggested to carryout demand driven works | Need based works have been included in the action plan 2013-14. | |
| | | Suggested to cultivate different varieties of banana in KVK farm scientifically. | Planned accordingly. | |
| | | Suggested to prepare list of development department schemes for the benefit of the farmers. | On going. | |
| | | Suggested to work in collaboration with ATMA | On going. | |
| | | Suggested to obtain soil resource map from NBSS and LUP for Davanagere district. | Requisition has been sent to NBSS. | |
| | | Suggested to give importance for all taluks in KVK activities. | All six taluks have been given in the action plan 2013-14. | |
| | | Suggested to analyse impact of demonstrations for continued adoption. | On going. | |
| | | Suggested to introduce coloured broilers. | On going. | |
| | | To popularize poultry manure. | On going. | |
| | | Suggested use AIR effectively to popularize KVK activities. | On going. | |
| | | Popularize silage making technology | On going. | |
| | | To encourage farmers for annual fodder crops. | On going. | |
| | | Suggested to popularize use of bio pesticide. | On going. | |
| Suggested to conduct few impact studies on the trainings conducted. | On going. | | | |
| To work on market linkages. | On going. | | | |

4. Capacity Building of KVK Staff

4.1. Plan of Human Resource Development of KVK personnel during 2013-14

| S. No | New Areas of Training | Institution proposed to attend | Justification |
|--------|---|--------------------------------|--|
| 4.1.1 | Soil, Water and Plant Testing | UAS, Bengaluru | To get experience for newly appointed Programme Assistant (Lab Technician) |
| 4.1.2 | IPM in oil seeds and pulses | DOR, Hyderabad | Reduction in yield due to non adoption of IPM practices |
| 4.1.3 | National Consultation on promotion of Agri Entrepreneurship under Extension Reforms | MANAGE, Hyderabad | To study the different modes of developing rural youths in taking up entrepreneurship activities in the field of Agriculture |
| 4.1.4 | Participatory Impact Monitoring Analysis | ZPD, Bengaluru | To conduct impact studies of KVK activities |
| 4.1.5 | Improved production technology and new agronomic practices in oilseeds | DOR, Hyderabad | To introduce high yielding varieties and drought tolerant varieties. |
| 4.1.6. | Dry land techniques under rainfed areas to improve the yield | CRIDA and ICRISAT, Hyderabad | To mitigate climatic aberrations in agriculture. |
| 4.1.7 | Effect of climate on production and productivity of field crops | CRIDA | It will be useful in the preparation of the contingent crop planning and weather / climate based recommendation. |

4.2. Cross-learning across KVKs during 2013-14

| S. No | Name of the KVK proposed | Specific learning areas |
|-------|--|--|
| 4.2.1 | Within ring Krishi Vigyan Kendra, Chitradurga | Management of bacterial blight of pomegranate |
| | Krishi Vigyan Kendra, Gadag | Value addition in Horticulture crops, SHG's income generating activities |
| | Krishi Vigyan Kendra, Shimoga | Protected cultivation of vegetables |
| 4.2.2 | Within the zone Krishi Vigyan Kendra, Pattanamthitta | Secondary Agriculture and Animal Science activities |
| 4.2.3 | Outside zone Krishi Vigyan Kendra, Baramathi | Information communication technology |

5. Proposed cluster of KVKs (3 to 5 neighboring KVKs) to be formed for sharing knowledge/expertise, resources and activities during 2013-14

| S.No. | Name of the KVKs included in the cluster | What do you intend to share with Cluster KVKs | What do you expect from Cluster KVKs |
|-------|--|---|---|
| 5.1 | Krishi Vigyan Kendra, Chitradurga | Fish seeds, Fodder slips | Seeds, Farm Machinery |
| 5.2 | Krishi Vigyan Kendra, Shimoga | Banana Special | Seeds / Seedlings |
| 5.3 | Krishi Vigyan Kendra, Haveri | Fodder slips, Banana Special | To develop Simarouba juice in collaboration with SMS (Home Science) |

6. Operational areas details proposed during 2013-14

| Sl.No. | Major crops & enterprises being practiced in cluster villages | Prioritized problems in these crops/ enterprise | Extent of area (ha/No.) affected by the problem | Names of Cluster Villages identified for intervention | Proposed Intervention (OFT, FLD, Training, extension activity etc.) |
|--------|---|---|---|--|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 6.1 | Rice | <ul style="list-style-type: none"> • Labours for timely transplanting • No. of seedling / sq. m is around 30-35. • Improper nutrient management Low yield • Weed Management • No seedling treatment with biofertilizer • No/less zinc sulphate application • Higher incidence of stem borer • Cost of production • Higher incidence of sheath blight | 10,000 ha | Elebethur cluster Elebethur, Hale Bathi, Hosa Bathi Devarabelekere cluster Devarabelakere | <ul style="list-style-type: none"> • FLD • Training • Field visit • Field day |
| 6.2 | Maize | <ul style="list-style-type: none"> • No seed treatment with bio fertilizers (Azosprillium) • No intercropping with pulses • Thick plant population (increased seed rate) • Low yield | | Billahalli cluster Billahalli Hanumanthapura cluster Hanumanthapura | <ul style="list-style-type: none"> • FLD • Training • Field visit • Field day |
| 6.3 | Groundnut | <ul style="list-style-type: none"> • Low yielding varieties • Low fodder quality • Tikka leaf spot and root rot. | 800 ha. 300 ha | Kuremaganahalli cluster Bennehalli, Kuremaganahalli | <ul style="list-style-type: none"> • OFT • Training • Field visit • Field day |

| 1 | 2 | 3 | 4 | 5 | 6 |
|-----|-----------|--|-------------------|--|--|
| 6.4 | Ragi | <ul style="list-style-type: none"> Poor fodder quality Low yield (3-4 q / acre) Higher seed rate (30 kg / acre) Improper nutrient management (no bio fertilizer) Long duration varieties. | 4000 ha. | Billahalli cluster Billahalli Donihalli | <ul style="list-style-type: none"> FLD Training Field visit Field day |
| 6.5 | Redgram | <ul style="list-style-type: none"> Low yield due to use of local varieties Incidence of pod borer and wilt No seed treatment | 500 ha 650 ha | Hanumanthapura cluster Hanumanthapura | <ul style="list-style-type: none"> FLD Method Demonstration Training Field visit |
| 6.6 | Cotton | <ul style="list-style-type: none"> Incidence of aphid, thrips mealy bug, mirid bug and leaf hoppers. Leaf reddening and square drop | 2500 ha 950 ha | Hanumanthapura cluster Hanumanthapura | <ul style="list-style-type: none"> FLD Training Field visit Group meeting Field day |
| 6.7 | Tomato | <ul style="list-style-type: none"> Fruit cracking Incidence of TLCV, bacterial wilt, early blight Lack of grading techniques | 300 ha | Hanumanthapura cluster Hanumanthapura | <ul style="list-style-type: none"> FLD Training Field visit Group meeting Field day |
| 6.8 | Mango | <ul style="list-style-type: none"> Flower dropping Low yield Uneconomical trees Age old orchards | 500 ha. | Billahalli cluster Santhebennur Doddaabbigere | <ul style="list-style-type: none"> FLD Training Field visit Group meeting Field day |
| 6.9 | Areca nut | <ul style="list-style-type: none"> Higher incidence of bacterial leaf stripe No proper drainage | 750 ha 1100 ha | Sasvehalli cluster Benakanahalli Sasvehalli | <ul style="list-style-type: none"> FLD Field visit Method Demonstration Field day |

| 1 | 2 | 3 | 4 | 5 | 6 |
|------|--|---|------------------------------|--|--|
| 6.10 | Arecanut | <ul style="list-style-type: none"> • Hidimundige syndrome • Improper nutrient management | 2000 ha | Billahalli cluster Billahalli Donihalli Santhebennuru | <ul style="list-style-type: none"> • FLD • FFS • Training • Awareness campaign • Field day |
| 6.11 | Banana | <ul style="list-style-type: none"> • Sigatoka leaf spot • Panama wilt • Micronutrient deficiency leading to lower bunch weight • Low planting density | 384 ha 638 ha 3825 ha | Sasvehalli cluster Benakanahalli Sasvehalli Taraganahalli | <ul style="list-style-type: none"> • FLD • OFT • Training • Awareness campaign • Field day |
| 6.12 | Coconut | <ul style="list-style-type: none"> • Coconut Black Headed Caterpillar and Mites • Poor utilization of interspace • Dropping of immature nuts | 893 ha 1763 ha 1227 ha | Sasvehalli cluster Benakanahalli Sasvehalli Taraganahalli | <ul style="list-style-type: none"> • FLD • Training • Awareness campaign • Vocational training on palm climbing. |
| 6.13 | Rearing of crossbreed cattle and buffalo | <ul style="list-style-type: none"> • Lower milk production and no CMP • Repeat breeding in dairy animals • Uterine prolapse in pregnant animals | > 80% 60-70% 10-15% | Kuremaganahalli cluster Kambattahalli Nandikamba Uchangidurga Kuremaganahalli | <ul style="list-style-type: none"> • OFT • FLD • Training • Field visit • Field day |
| 6.14 | Fisheries | <ul style="list-style-type: none"> • Monocropping; reduced income in regular crops like rice and maize per unit area | | Devarahatti Chattobanahalli Mallenahalli Kanakabasapura Chikkaarkere | <ul style="list-style-type: none"> • FLD • Training Programme • Field visit • Field day |

7. Technology Assessment during 2013-14

| Sl.No. | Crop/enterprise | Prioritized problem | Title of intervention | Technology options | Source of Technology |
|--------|-----------------|---|---|--|----------------------|
| 7.1 | Groundnut | <ul style="list-style-type: none"> • Use of local variety TMV-2 • Low yield • Lack of awareness on improved varieties. | Performance assessment of groundnut varieties for better yield. | T₁ : Farmers Practice: TMV-2 | - |
| | | | | T₂ : Recommended practice: GPBD-4 | UAS(D) |
| | | | | T₃ : Recommended Practice: KCG-6 | UAS(B) |
| | | | | T₄ : Alternate practice: ICGV-91114 | ICRISAT |

| Name of critical input | Quantity per trial | Cost per trial | No. of trials | Total cost for the intervention (Rs.) | Parameters to be studied | Team members |
|---|--------------------------|------------------------------|---------------|---------------------------------------|---|--|
| T₁- Nil | - | - | 02 | - | - | - |
| T₂- Seeds – GPBD-4 Gypsum Trichoderma | 100 kg 200 kg 4 kg | 8000-00 1600-00 400-00 | 02 | 10,000-00 | | |
| T₃- Seeds – KCG-6 Gypsum Trichoderma | 100 kg 200 kg 4 kg | 8000-00 1600-00 400-00 | 02 | 10,000-00 | <ul style="list-style-type: none"> • Germination % • Plant height • No of pods/plant | Mallikarjuna B.O. Prasannakumara N. Raghuraja J Dr. Devaraja T.N. |
| T₄- Seeds – ICGV-91114 Gypsum Trichoderma | 100 kg 200 kg 4 kg | 8000-00 1600-00 400-00 | 02 | 10,000-00 | <ul style="list-style-type: none"> • Shelling % • Test weight • Pod yield • Haulm yield | |
| | | | | 30,000-00 | | |

Area : 1.2 ha

| Sl. No. | Crop/enterprise | Prioritized problem | Title of intervention | Technology options | Source of Technology |
|---------|-----------------|---|---|---|-------------------------|
| 7.2 | Banana | Low planting density and low income per hectare | Modified high density planting for increased productivity in Banana | T ₁ : Square method 2.7 m x 2.7 m spacing | |
| | | | | T ₂ : Square method (1.8mx1.8m spacing) | UAS, Bangalore |
| | | | | T ₃ : Paired row with zigzag method (1.2x1.2x 2 m) | NRC on banana (Thirchi) |

| Name of critical input | Qty /trial | Cost per trial | No. of trials | Total cost for the intervention (Rs.) | Parameters to be studied | Team members |
|----------------------------|------------------|----------------|---------------|---------------------------------------|---|---|
| T ₁ - | | | 02 | | <ul style="list-style-type: none"> • Bunch weight • No.of Hands in bunch • Number of fingers in bunch • Yield/ha | Sri. Basavanagowda M G Sri. Prasanna Kumara N Sri. Raghuraja J Dr. Devaraja T.N. |
| T ₂ - plants | Banana TC 500 | 7500-00 | 02 | 15000-00 | <ul style="list-style-type: none"> • Bunch weight • No.of Hands in bunch • Number of fingers in bunch • Yield/ha | |
| T ₃ - plants | Banana TC 833 | 12495-00 | 02 | 24990-00 | <ul style="list-style-type: none"> • Bunch weight • No. of Hands in bunch • Number of fingers in bunch • Yield/ha | |
| | | | | 39,990-00 | | |

Area : 0.8 ha

| Sl. No | Crop/ enterprise | Prioritized problem | Title of intervention | Technology options | Source of Technology |
|--------|--|--|--|--|--|
| 7.3 | Cross bred Cattle and Buffalo rearing (Dairying) | Repeat breeding and Uterine prolapse in the Dairy Animals. (Reproductive Problems) | Alleviation of Reproductive Problems in Dairy Animals through Balanced Nutrition | T₁ : (Farmers Practice): Feeding only Brans / Cakes along with low quality roughages. | - |
| | | | | T₂ : (Recommended Practice): Feeding Dairy Animals with Balanced Animal Feeds and Roughages as per the feeding standards. | Hand Book of Animal Husbandry, KVAFSU, Bidar |
| | | | | T₃ : (Alternate Practice): Feeding Dairy Animals with Balanced Animal Feeds and roughages as per the feeding standard. + Periodical Deworming + Use of Area specific mineral mixture | NIANP, Bengaluru |

| Name of critical input | Qty per trial | Cost per trial | No. of trials | Total cost for the intervention (Rs.) | Parameters to be studied | Team members |
|---|---|----------------|---------------|---------------------------------------|---|---|
| T₁- | - | - | 03 | - | - | - |
| T₂- Cattle Feed | 50 kg x 4 | 4000-00 | 03 | 12,000-00 | Heat symptoms, conception rate, milk yield, parturition | Dr. Jayadevappa G.K. Sri. Raghuraja J. |
| T₃- Cattle feed Deworming drug (Thrice) ASMM (Chelated) | 50 kg x 4 3 g x 3 boli 1 kg x 3 pkt | 6000-00 | 03 | 18,000-00 | Heat symptoms, conception rate, milk yield, parturition | Dr. Devaraja T.N. |
| | | | | 30,000-00 | | |

No. of farmers : 03

No. of cows : 09

8. Technology Refinement during 2013-14: Nil

9. Frontline Demonstrations during 2013-14

| Sl. No. | Category | Crop | Prioritized problem | Technology to be demonstrated | Specify Hybrid or Variety | Name of the Variety |
|---------|----------|------|---|---|---------------------------|---------------------|
| 9.1 | Cereals | Rice | <ul style="list-style-type: none"> • Improper spacing. • Non availability of labourers for timely transplanting. • Poor mechanization. • Lack of knowledge on nursery raising for mechanized transplanting . • Incidence of stem borer. • Improper nutrient management (Excess nitrogen application). • No seedling treatment with biofertilizer. • No/less ZnSO₄ application. | <p>Integrated crop management in Rice with an emphasis on mechanization.</p> <ul style="list-style-type: none"> • Seed rate 10 kg/acre • Raising of the nursery in trays (60-70) • Seed treatment with Azospirillum (1kg/acre) • Use of transplanting machine • Use of <i>power operated</i> Conoweeder • Application of ZnSO₄ (8 kg) • Installation of Pheromone trap | Variety | Bpt Sona |

| Source of Technology | Name of critical input | Quantity per Demo | Cost per Demo (Rs.) | No. of Demo | Total cost for the Demo (Rs.) | Parameters to be studied | Team members |
|-----------------------------------|---|--------------------------|---------------------|-------------|-------------------------------|---|--|
| CIAE, Bhopal UAS, Bengaluru | Hiring the transplanter, Power operated weeder and Power sprayers, Harvester, ZnSO ₄ | Demo | 2300-00 | 10 | 28,000-00 | <ul style="list-style-type: none"> • No. of seedling per sq.m • No. of tillers. • Time and labour for critical operations • Yield | Sri. Mallikarjuna B.O Sri. Prasanna Kumar N. Sri. Raghuraja J Dr. Devaraja T.N. |
| | 8 kg | 500-00 2800-00 | | | | | |

| Sl. No. | Category | Crop | Prioritized problem | Technology to be demonstrated | Specify Hybrid or Variety | Name of the Variety |
|---------|----------|------|--|--|---------------------------|---------------------|
| 9.2 | Cereals | Rice | <ul style="list-style-type: none"> • Higher incidence of sheath blight • Closer spacing • Indiscriminate use of fertilisers | Integrated management of sheath blight in Rice <ul style="list-style-type: none"> • Deep ploughing in summer and burning of stubles • Removing of weeds from bunds and fields • Maintain proper spacing and avoid excess plant population • Avoid excess N application • Seed treatment with carbendazim @4g/kg • Soil application of <i>Pseudomonas fluorescenes</i> @ 5kg/ha after 30 DAT • Spray with Hexaconazole @2ml/L & Validamycin @ 2ml/L | Variety | Bpt Sona |

| Source of Technology | Name of critical input | Quantity per Demo | Cost per Demo (Rs.) | No. of Demo | Total cost for the Demo (Rs.) | Parameters to be studied | Team members |
|----------------------|--|------------------------------------|---|-------------|-------------------------------|---|--|
| UAS B | Carbendazim Pseudomonas fluorescenes Hexaconazole Validamycin | 0.1 kg 1.0 kg 1.0 L 1.0 L | 50-00 280-00 550-00 550-00 1420-00 | 5 | 7,100-00 | <ul style="list-style-type: none"> • Yield • % Incidence of disease | Sri. Prasanna Kumar N. Sri. Mallikarjuna B.O Sri. Raghuraja J Dr. Devaraja T.N. |

| Sl. No. | Category | Crop | Prioritized problem | Technology to be demonstrated | Specify Hybrid or Variety | Name of the Hybrid or Variety |
|---------|----------|-------|--|---|---|-------------------------------|
| 9.3 | Cereals | Maize | <ul style="list-style-type: none"> • Stem borer • Incomplete filling of cobs • No micronutrient application • Higher seed rate(10kg) • No intercropping • Poor soil fertility due to excess use of chemical fertilizers. | Integrated crop management and intercropping Redgram in Maize <ul style="list-style-type: none"> • Soil testing before and after crop • Popularising the Maize(resistant to stem borer) and Redgram (Dual purpose) intercropping. • Recommended seed rate 6kg maize and 3kg Redgram and seed treatment • Application of ZnSO₄ @ 5 kg/acre | Hybrid - Maize Variety - Redgram | NAH-1137 BRG-2 |

| Source of Technology | Name of critical input | Quantity per Demo | Cost per Demo (Rs.) | No. of Demo | Total cost for the Demo (Rs.) | Parameters to be studied | Team members |
|----------------------|---|------------------------------|--------------------------------------|-------------|-------------------------------|--|--|
| UAS, Bengaluru | NAH-1137 BRG-2 <i>Azospirillum</i> Zinc Sulphate | 6 kg 3 kg 2 kg 5 kg | 480-00 270-00 120-00 250-00 | 15 | 16700-00 | <ul style="list-style-type: none"> • Soil test before and after crop. • No. of rows / cob • Yield | Sri. Mallikarjuna B.O Sri. Prasanna Kumar N. Sri. Raghuraja J Dr. Devaraja T.N. |

| Sl. No. | Category | Crop | Prioritized problem | Technology to be demonstrated | Specify Hybrid or Variety | Name of the Hybrid or Variety |
|---------|----------|------|---|---|---------------------------|-------------------------------|
| 9.4 | Millets | Ragi | <ul style="list-style-type: none"> • Non availability of quality seed material. • Higher seed rate (30 kg / acre) • No inter cropping with pulses. • Long duration low yielding varieties. • No seed treatment bio fertilizer • Non practicing of spraying of water soluble fertilizers | Integrated crop management in HYV Ragi (GPU-48) <ul style="list-style-type: none"> • Seed- GPU-48 • Seed treatment with bio fertilizers (<i>Azospirillum</i> @ 2kg) • Application of ZnSO₄ @ 5 kg/acre | Variety | GPU-48 |

| Source of Technology | Name of critical input | Quantity per Demo | Cost per Demo | No. of Demo | Total cost for the Demo (Rs.) | Parameters to be studied | Team members |
|----------------------|--|-----------------------|--|-------------|-------------------------------|---|--|
| UAS, Bengaluru | Seed material Seed <i>Azospirillum</i> ZnSO ₄ | 5 kg 10 kg 5 kg | 150-00 80-00 350-00 580-00 | 15 | 8,700-00 | <ul style="list-style-type: none"> • No. of tillers • No. of fingers • Yield | Sri. Mallikarjuna B.O Dr. Jayadevappa G.K. Sri Raghuraja J. Dr. Devaraja T.N. |

| Sl. No. | Category | Crop/ enterprise | Prioritized problem | Technology to be demonstrated | Specify Hybrid or Variety | Name of the Variety | Source of Technology |
|---------|----------|------------------|---|--|---------------------------|---------------------|----------------------|
| 9.5 | Pulses | Redgram | <ul style="list-style-type: none"> • Use of local varieties • No seed treatment • Higher incidence of pod borer and wilt | Integrated pest and disease management in Redgram <ul style="list-style-type: none"> • Use of BRG-2 seeds • Seed treatment with Trichoderma and soil application. • Installation of pheromone trap. • Spray with Profenophos. Neem oil and Indoxicarb | Variety | BRG-2 | UAS, Bengaluru |

| Name of critical input | Quantity per Demo | Cost per Demo (Rs.) | No. of Demo | Total cost for the Demo (Rs.) | Parameters to be studied | Team members |
|------------------------|-------------------|---------------------|-------------|-------------------------------|--|--|
| BRG-2 | 6 kg | 600-00 | 5 | 13,500-00 | <ul style="list-style-type: none"> • Yield • % incidence of wilt pod borer | Sri Prasannakumar N. Sri Raghuraja J. Sri Mallikarjuna B.O. Dr. Devaraja T.N. |
| Trichoderma | 3 kg | 300-00 | | | | |
| Traps | 2nos. | 100-00 | | | | |
| Neem oil | 1 L | 400-00 | | | | |
| Profenophos | 1 L | 500-00 | | | | |
| Indoxicarb | 0.5 | 800-00 | | | | |
| | | 2700-00 | | | | |

| Sl. No. | Category | Crop/enterprise | Prioritized problem | Technology to be demonstrated | Specify Hybrid or Variety | Name of the Hybrid | Source of Technology |
|---------|-----------------|-----------------|--|---|---------------------------|--------------------|----------------------|
| 9.6 | Commercial crop | Cotton | <ul style="list-style-type: none"> • Incidence of aphids, leaf hoppers thrips miridbug and mealy bug. • Leaf reddening and square drop | Integrated management of sucking pests in Cotton <ul style="list-style-type: none"> • Spray with Acetamaprid 20 SP @ 0.2 g/l and Neem oil against sucking pests • Foliar spray of MgSO₄ and KNO₃ • Profenenphos spray against the mirid bug | Hybrid | Private | UAS, Bengaluru |

| Name of critical input | Quantity per Demo | Cost per Demo (Rs.) | No. of Demo | Total cost for the Demo (Rs.) | Parameters to be studied | Team members |
|------------------------|-------------------|---------------------|-------------|-------------------------------|---|--|
| Acetamaprid 20 SP | 200 g | 500-00 | 10 | 16,000-00 | <ul style="list-style-type: none"> • Yield • % sucking pest incidence | Sri Prasannakumar N. Sri Mallikarjuna B.O. Sri Raghuraja J. Dr. Devaraja T.N. |
| MgSO ₄ | 4 kg | 200-00 | | | | |
| Neem oil | 1 L | 300-00 | | | | |
| KNO ₃ | 2kg | 200-00 | | | | |
| Profenophos | 1L | 400-00 | | | | |
| | | 1600-00 | | | | |

| Sl. No. | Category | Crop/enterprise | Prioritized problem | Technology to be demonstrated | Specify Variety | Name of the Variety | Source of Technology |
|---------|-----------------|-----------------|---|--|-----------------|---------------------|----------------------|
| 9.7 | Plantation Crop | Arecanut | <ul style="list-style-type: none"> Higher incidence of bacterial leaf stripe No proper drainage | Integrated management of bacterial leaf stripe in young Arecanut plantations <ul style="list-style-type: none"> Proper drainage. Removal and burning of affected leaves. Spray with Copper oxychloride and Streptocyclin | Variety | Theerthahalli local | UAS, Bengaluru |

| Name of critical input | Quantity per Demo | Cost per Demo (Rs.) | No. of Demo | Total cost for the Demo (Rs.) | Parameters to be studied | Team members |
|------------------------|-------------------|---------------------|-------------|-------------------------------|---|---|
| Copper oxychloride | 1.5 kg | 1500-00 | 5 | 14,500-00 | <ul style="list-style-type: none"> Yield % incidence of disease | Sri Prasannakumar N. Sri Basavanagowda M.G. Dr. Devaraja T.N. |
| Streptocyclin | 250 gm | 1400-00 | | | | |

| Sl. No. | Category | Crop/enterprise | Prioritized problem | Technology to be demonstrated | Specify Hybrid or Variety | Name of the Variety | Source of Technology |
|---------|-------------------|-----------------|--|--|---------------------------|---------------------|----------------------|
| 9.8 | Horticulture Crop | Arecanut | <ul style="list-style-type: none"> Dropping of immature nuts and splitting of nuts. Hidimundige syndrome | Promotion of green manure crop in Arecanut plantations <ul style="list-style-type: none"> Green manure crop in Arecanut plantation | Variety | Channagiri Local | IIHR, Bangalore |

| Name of critical input | Quantity per Demo | Cost per Demo (Rs.) | No. of Demo | Total cost for the Demo (Rs.) | Parameters to be studied | Team members |
|------------------------|-------------------|---------------------|-------------|-------------------------------|--|---|
| Velvet beans seeds | 10 kg | 1000-00 | 10 | 10,000-00 | <ul style="list-style-type: none"> ❖ Soil testing before and after ❖ Percent dropping ❖ Percent nut splitting ❖ Yield/ha | Mr.Basavanagowda M G Mr.Prasanna kumara N Dr. Devaraja T.N. |
| | | 1000-00 | | | | |

| Sl. No. | Category | Crop/enterprise | Prioritized problem | Technology to be demonstrated | Specify Hybrid or Variety | Name of the Hybrid | Source of Technology |
|---------|-------------------|-----------------|--|---|---------------------------|---------------------|----------------------|
| 9.9 | Horticulture crop | Tomato | <ul style="list-style-type: none"> • Fruit cracking • Improper micronutrient management • Existing hybrids / varieties are susceptible to TLCV, Bacterial wilt and early blight • Poor yield | Integrated crop management in Tomato <ul style="list-style-type: none"> • New hybrid • Vegetable Special | Hybrid | Arka Rakshak | IIHR, Bengaluru |

| Name of critical input | Quantity per Demo | Cost per Demo (Rs.) | No. of Demo | Total cost for the Demo (Rs.) | Parameters to be studied | Team members |
|--|-------------------|---------------------|-------------|-------------------------------|---|---|
| Seed of Arka Rakshak hybrid-Vegetable Special- (Rs. 150 / kg) | 20 g | 600-00 | 8 | 8,400-00 | <ul style="list-style-type: none"> • Yield • Percent fruit cracking • Percent incidence of bacterial wilt, TLCV and early blight | SMS (Soil Science) Mr. Basavanagowda M.G. Dr. Devaraja T.N. |
| | 03 kg | 450-00 | | | | |
| | | 1050-00 | | | | |

| Sl. No. | Category | Crop/enterprise | Prioritized problem | Technology to be demonstrated | Specify Hybrid or Variety | Name of the Variety | Source of Technology |
|---------|-------------------|-----------------|--|--|---------------------------|---------------------|----------------------|
| 9.10 | Horticulture crop | Mango | <ul style="list-style-type: none"> • Higher flower drop • Poor fruit set • Micronutrient deficiency | <ul style="list-style-type: none"> • Foliar application of 'Mango Special' in Mango for enhanced yield. | Variety | Alphanso | IIHR, Bengaluru |

| Name of critical input | Quantity per Demo | Cost per Demo (Rs.) | No. of Demo | Total cost for the Demo (Rs.) | Parameters to be studied | Team members |
|------------------------------|-------------------|---------------------|-------------|-------------------------------|--|---|
| Mango special- (Rs. 188/ kg) | 8kg | 1500-00 | 02 | 3000-00 | <ul style="list-style-type: none"> • Yield • Percent flower drop | SMS (Soil Science) Sri Basavanagowda M.G. Dr. Devaraja T.N. |
| | | 1500-00 | | | | |

| Sl. No. | Category | Crop/enterprise | Prioritized problem | Technology to be demonstrated | Specify Hybrid or Variety | Name of the Variety | Source of Technology |
|---------|-------------------|-----------------|--|---|---------------------------|---------------------|----------------------|
| 9.11 | Horticulture Crop | Banana | Micronutrient deficiency leading to lower bunch weight | Integrated crop management in Banana Banana special | Variety | G-9, Yelakki | IIHR, Bangalore |

| Name of critical input | Quantity per Demo | Cost per Demo (Rs.) | No. of Demo | Total cost for the Demo (Rs.) | Parameters to be studied | Team members |
|------------------------|-------------------|---------------------------|-------------|-------------------------------|--|---|
| Banana special | 10 kg | 1500-00 1500-00 | 10 | 15000-00 | <ul style="list-style-type: none"> ❖ Soil testing before and after ❖ Bunch weight ❖ No. of hands in bunch ❖ No. of finger in bunch | Mr.Basavanagowda M G Mr.Prasanna kumara N Dr. Devaraja T.N. |

| Sl. No. | Category | Crop/enterprise | Prioritized problem | Technology to be demonstrated | Specify Hybrid or Variety | Name of the Variety | Source of Technology |
|---------|-------------------|-----------------|--|--|---------------------------|---------------------|----------------------|
| 9.12 | Horticulture Crop | Coconut | Non utilization of interspaces available in Coconut garden | Popularization of KDM-1 Drumstick as intercrop in Coconut gardens | Variety | KDM-1 | UHS, Bagalkot |

| Name of critical input | Quantity per Demo | Cost per Demo (Rs.) | No. of Demo | Total cost for the Demo (Rs.) | Parameters to be studied | Team members |
|------------------------|----------------------|---------------------------|-------------|-------------------------------|--|---|
| KDM-1 seedlings | 200 seedlings/0.1 ha | 1875-00 1875-00 | 8 | 15,000-00 | <ul style="list-style-type: none"> ❖ Intercrop yield/ha ❖ Percent increase in net income | Mr.Basavanagowda M G Mr.Prasanna kumara N Dr. Devaraja T.N. |

| Sl. No. | Category | Crop/enterprise | Prioritized problem | Technology to be demonstrated | Specify Hybrid or Variety | Name of the Hybrid | Source of Technology |
|---------|--------------------------------|-----------------|---|---|---------------------------|--------------------|----------------------|
| 9.13 | Livestock (Cattle and Buffalo) | Dairying | • Lower and unhygienic milk production in Dairy Animals | Improved management practices in dairy animals for better performance. | Hybrid | Crossbred, HF cow | KVAFSU, Bidar |

| Name of critical input | Quantity per Demo | Cost per Demo (Rs.) | No. of Demo | Total cost for the Demo (Rs.) | Parameters to be studied | Team members |
|---|---|---|-------------|-------------------------------|---|---|
| <ul style="list-style-type: none"> • Dewormer • Cattle Feed • ASMM • Rubber Mat | 1 x 3g 50 kg x 2 bag 1 kg x 1 packet 1 no. | 50-00 2000-00 150-00 2500-00 4700-00 | 03 | 14,100-00 | <ul style="list-style-type: none"> • Milk yield • Cost of milk production • Milk quality and cleanliness | Dr. Jayadevappa G.K. Sri Raghuraja J. Dr. Devaraja T.N. |

| Sl. No. | Category | Crop/enterprise | Prioritized problem | Technology to be demonstrated | Specify Hybrid or Variety | Name of the Hybrid or Variety | Source of Technology |
|---------|-----------|-----------------|--|--|---------------------------|---|----------------------|
| 9.14 | Fisheries | Fish | • Reduced farm income and monocropping | Polyculture of fishes in big earthen ponds. | Variety | <i>Catla catla</i> <i>Labeo rohita</i> <i>Cyprinus carpio</i> | KVAFSU, Bidar |

| Name of critical input | Quantity per Demo | Cost per Demo (Rs.) | No. of Demo | Total cost for the Demo (Rs.) | Parameters to be studied | Team members |
|--|--------------------|--------------------------------------|-------------|-------------------------------|--|--|
| <ul style="list-style-type: none"> • Fish fingerlings • VM mixture | 20,000 No. 5 kg | 5500-00 500-00 6,000-00 | 05 | 30,000-00 | <ul style="list-style-type: none"> • Body weight • Total yield • Total income | Dr. Devaraja T.N. Dr. Jayadevappa G.K. Sri. Raghuraja J. |

Integrated Farming System in dryland agriculture:

- Major emphasis**
- Crop diversity
 - Soil and water conservation

No. of farmers – 6

| Critical input | No. | Amount (Rs.) |
|---|--------|------------------|
| Seedlings | | |
| Mango | 100 | 10,000-00 |
| Sapota | 60 | 3,000-00 |
| Drumstick | 300 | 3,000-00 |
| Lemon | 120 | 6,000-00 |
| Musambi | 40 | 2,000-00 |
| Guava | 20 | 1,000-00 |
| Fish fingerlings | 3000 | 3,000-00 |
| Azolla unit and DHN-6 fodders, Sheep(2) | 6 | 13,000-00 |
| Vermicompost unit | 1 | 4,000-00 |
| Trench cum bund and Vettiver grass | 5 acre | 5,000-00 |
| Total | | 50,000-00 |

- Green manure crops (Glyricidia, Honge, etc.) and wild bamboo seedlings will be provided with the assistance of Forest Department.
- 1 Farm pond for each farmer will be constructed with the assistance of DWDD, Davanagere.

10 Training for Farmers/ Farm Women during 2013-14

| Sl. No. | Thematic area | Crop / Enterprise | Major problem | Linked field intervention | Training Course Title | No. of Courses | Expected No. of participants | Names of the team members involved |
|---------|---|-------------------|--|---------------------------|--|----------------|------------------------------|---|
| 10.1 | Crop Production | | | | | | | |
| | <ul style="list-style-type: none"> Seed treatment Nursery | Rice | <ul style="list-style-type: none"> Lack of knowledge on bio fertilizer seed treatment Raising of quality seedlings | FLD | <ul style="list-style-type: none"> Seed treatment and sowing of seeds in trays | 01 | 25 | Sri. Mallikarjuna B.O. Sri Raghuraja J. Dr. Devaraja T.N. |
| | <ul style="list-style-type: none"> Weed management | Rice | <ul style="list-style-type: none"> Use of repeated weedicides. Hand weeding | FLD | <ul style="list-style-type: none"> Use of cone weeder in mechanized planting for weeding | 01 | 25 | Sri. Mallikarjuna B.O. Sri Raghuraja J. Dr. Devaraja T.N. |
| | <ul style="list-style-type: none"> Nutrient management | Rice | <ul style="list-style-type: none"> Indiscriminate use of fertilizer (Urea) | FLD | <ul style="list-style-type: none"> Split application of RDF in Rice | 01 | 20 | Sri. Mallikarjuna B.O. Sri Raghuraja J. Dr. Devaraja T.N. |
| | <ul style="list-style-type: none"> Pest management | Rice | <ul style="list-style-type: none"> Incidence of sheath blight. | FLD | <ul style="list-style-type: none"> Installation of funnel taps. Nursery management of pest and diseases Method demonstration on spraying technique. Seedling treatment with bio fertilizer | 02 | 30 | Sri Prasannakumara N. Sri Raghuraja J. Dr. Devaraja T.N. |

| | | | | | | | |
|---|-----------|--|-----|---|---|----|---|
| <ul style="list-style-type: none"> • High yield • Seed treatment • Intercropping | Maize | <ul style="list-style-type: none"> • No seed treatment • No intercropping • Poor soil fertility | FLD | <ul style="list-style-type: none"> • Soil sampling for soil analysis and use of mechanized seed drill for sowing | 01 | 30 | Sri. Mallikarjuna B.O. Sri Raghuraja J. Dr. Devaraja T.N. |
| | | | | <ul style="list-style-type: none"> • Role of intercrop improving soil fertility | 01 | 25 | |
| | | | | | <ul style="list-style-type: none"> • Use of micronutrient ZnSO₄ | 01 | |
| <ul style="list-style-type: none"> • Seed treatment | Groundnut | <ul style="list-style-type: none"> • Root rot and leaf spot | OFT | <ul style="list-style-type: none"> • Seed treatment with chemicals and bio fertilizer | 01 | 30 | Sri. Mallikarjuna B.O. Sri Raghuraja J. Dr. Devaraja T.N. |
| <ul style="list-style-type: none"> • Nutrient management | Groundnut | <ul style="list-style-type: none"> • Improper application of fertilizer (Gypsum) | OFT | <ul style="list-style-type: none"> • Use of Gypsum (CaSO₄) to improve quality and yield | 01 | 20 | Sri. Mallikarjuna B.O. Sri Raghuraja J. Dr. Devaraja T.N. |
| <ul style="list-style-type: none"> • Timely threshing | Groundnut | <ul style="list-style-type: none"> • Stripping the Groundnut • Non availability of labourers. | OFT | <ul style="list-style-type: none"> • Use of stripper in Groundnut | 01 | 25 | Sri. Mallikarjuna B.O. Sri Raghuraja J. Dr. Devaraja T.N. |

| | | | | | | | | |
|------|---|----------|--|-----|--|----|-----|--|
| | <ul style="list-style-type: none"> Seed treatment of IPM | Redgram | <ul style="list-style-type: none"> No seed treatment and soil application with bio fertilizer Incidence of pest borer and wilt | FLD | <ul style="list-style-type: none"> Seed treatment with trichoderma. Method demonstration on spraying technique Traps installation technique | 03 | 60 | Sri. Prasannakumara N. Sri Raghuraja J. Dr. Devaraja T.N. |
| | <ul style="list-style-type: none"> Seed treatment | Ragi | <ul style="list-style-type: none"> Lack of knowledge on bio fertilizers | FLD | <ul style="list-style-type: none"> Demonstration on the seed treatment with bio fertilizers | 01 | 25 | Sri. Mallikarjuna B.O. Sri Raghuraja J. Dr. Devaraja T.N. |
| | <ul style="list-style-type: none"> Nutrient management | | <ul style="list-style-type: none"> No micronutrients application | | <ul style="list-style-type: none"> Application of micronutrient in Ragi | 01 | 20 | |
| 10.2 | Horticulture Production | | | | | | | |
| | <ul style="list-style-type: none"> Nutrient management | Arecanut | <ul style="list-style-type: none"> Dropping of immature nuts Splitting of nuts Hidimundige syndrome | FLD | <ul style="list-style-type: none"> Role of green manure crops in increasing fertility status in Arecanut Integrated nutrient management in Arecanut | 05 | 150 | Mr.Basavanagowda M G Mr.Revanasiddappa G B P Sri Raghuraja J. Dr. Devaraja T.N. |
| | | | | | | 05 | 150 | |

| | | | | | | | | |
|------|---|------------------------|---|------------|--|----------|----------|--|
| | <ul style="list-style-type: none"> Nutrient management | Banana | <ul style="list-style-type: none"> Micronutrient deficiency Lower productivity | FLD | <ul style="list-style-type: none"> Effect of high density planting in Banana. Use of Banana Special to tackle the micronutrient deficiency in Banana | 10 | 150 | Mr.Basavanagowda M G Mr.Revanasiddappa G B P Sri Raghuraja J. Dr. Devaraja T.N. |
| | <ul style="list-style-type: none"> Pest management | Coconut | <ul style="list-style-type: none"> Coconut Black Headed caterpillar(CBHC) Mites | FLD | <ul style="list-style-type: none"> IPM in Coconut | 05 | 200 | Mr.Basavanagowda M G Mr.Prasanna kumara N Sri Raghuraja J. Dr. Devaraja T.N. |
| 10.3 | Livestock Production | | | | | | | |
| | Livestock Nutrition | Dairy Animals | <ul style="list-style-type: none"> Lower production Repeat breeding Uterine prolapse | OFT FLD | <ul style="list-style-type: none"> Scientific feeding in Dairy animals Role of minerals and vitamins on the performance of Dairy animals | 02 02 | 50 50 | Dr. Jayadevappa G.K. Sri Raghuraja J. Dr. Devaraja T.N. |
| | Livestock Nutrition | Sheep and Goat rearing | <ul style="list-style-type: none"> Lower body weight gain Endo parasites | -- | <ul style="list-style-type: none"> Advantages of stall feeding methods in Sheep rearing | 02 | 40 | Dr. Jayadevappa G.K. Sri Raghuraja J. Dr. Devaraja T.N. |
| | Fodder production | Napier x | <ul style="list-style-type: none"> Palatability Oxalic acid Serration in the leaf blades | -- | <ul style="list-style-type: none"> Production of HYV of DHN-6 fodder crop and it's nutritive value | 02 | 60 | Dr. Jayadevappa G.K. Sri Mallikarjuna B.O. Sri Raghuraja J. Dr. Devaraja T.N. |

| | | | | | | | | |
|-------|---|--|--|--|---|----|-----|--|
| 10.4 | Home Science | | | | | | | |
| 10.5 | Plant Protection | | | | | | | |
| | Integrated Pest Management | Cotton | <ul style="list-style-type: none"> • Incidence of sucking pests (Aphids thrips mealy bug and mirid bug) • Leaf reddening and square drop | FLD | <ul style="list-style-type: none"> • Identification of sucking pests in Cotton • Effect of trap crop in Cotton ecosystem • Sucking pests management • Micronutrients spray. | 04 | 120 | Sri Prasannakumara N Sri Mallikarjuna B.O. Sri Raghuraja J. Dr. Devaraja T.N. |
| | Integrated Pest Management | Arecanut | <ul style="list-style-type: none"> • Incidence of bacterial leaf stripe | FLD | <ul style="list-style-type: none"> • Importance of Proper drainage • Spraying technique of fungicides | 04 | 125 | Sri Prasannakumara N. Sri Basavanagowda M.G. Sri Raghuraja J. Dr. Devaraja T.N. |
| 10.6 | Production of Inputs at Site | | | | | | | |
| 10.7 | Soil Health and Fertility | | | | | | | |
| 10.8 | PHT and value addition | | | | | | | |
| 10.9 | Capacity Building Group Dynamics | | | | | | | |
| 10.10 | Farm Mechanization | | | | | | | |
| | Farm Mechanization | <ul style="list-style-type: none"> • Mechanized transplanting | Rice | <ul style="list-style-type: none"> • Non availability of skilled workers. • Reduced number of plants per sq. meters. | <ul style="list-style-type: none"> • Use of mechanized transplanter | 01 | 30 | Sri Mallikarjuna B.O. Sri Raghuraja J. Dr. Devaraja T.N. Sri Prasannakumara N |

| | | | | | | | | |
|-------|---|------|---|---|--|--------|------------|--|
| 10.11 | Fisheries Production Technologies | | | | | | | |
| | Fisheries (Production Technologies) | Fish | <ul style="list-style-type: none"> • Reduced farm income per unit area | <ul style="list-style-type: none"> • FLD “Polyculture of fishes in big earthen ponds | <ul style="list-style-type: none"> • Principles of pond aquaculture • Pond preparation • Species selection, stocking and feeding. • Pond management • Feed management | 1 each | 10 in each | Dr. Devaraja T.N. Dr. Jayadevappa G.K. Sri. Raghuraja J. |
| 10.12 | Mushroom production | | | | | | | |
| 10.13 | Agro forestry | | | | | | | |
| 10.14 | Bee Keeping | | | | | | | |
| 10.15 | Sericulture | | | | | | | |

11. Training for Rural Youth during 2013-14

| Sl. No. | Thematic area | Crop / Enterprise | Major problem | Linked field intervention (Assessment/Refinement/FLD) | Training Course Title | No. of Courses | Expected No. of participants | Names of the team members involved |
|---------|--------------------------------|-------------------|---|---|---|----------------|------------------------------|--|
| 11.1 | Crop Production | | | | | | | |
| | Soil Health and Soil fertility | Maize | <ul style="list-style-type: none"> • Soil nutrient status is depleting • Non availability of organic manures • Burning of the stubbles | FLD | <ul style="list-style-type: none"> • Conversion of maize wastes into organic manure through vermicompost | 02 | 30 | Sri. Mallikarjuna B.O. Sri Raghuraja J. |
| | Farm Mechanization | Groundnut | <ul style="list-style-type: none"> • Stripping of the Groundnut | OFT | <ul style="list-style-type: none"> • Creating awareness among the rural / youth on use of stripper. | 01 | 30 | Sri. Mallikarjuna B.O. Sri Raghuraja J. |
| | Farm Mechanization | Rice | <ul style="list-style-type: none"> • Non availability of quality seedling. • Lack of knowledge on the nursery production | FLD | <ul style="list-style-type: none"> • Sowing seeds in trays for mechanized transplanting | 02 | 50 | Sri. Mallikarjuna B.O. Sri Raghuraja J. |
| | Seed production | Ragi | <ul style="list-style-type: none"> • Non availability of quality planting (seeds) material | FLD | <ul style="list-style-type: none"> • Seed production techniques in Ragi | 02 | 50 | Sri. Mallikarjuna B.O. Sri. Revanasiddappa G.B.P. |

| | | | | | | | | |
|------|-------------------------------------|---|---|---|--|-----|--|--|
| 11.2 | Horticulture Production | | | | | | | |
| | Coconut | • Non availability of labours for harvesting nuts | FLD | Empowerment of rural youth in Coconut palm climbing | 05 | 100 | Mr.Basavanagowda M G Mr.Raghuraja J | |
| | Vegetable crops | • Lack of availability of good quality planting materials | -- | Production technology of good quality planting materials in vegetable crops | 02 | 100 | Mr.Basavanagowda M G Mr.Prasanna kumara N | |
| 11.3 | Livestock Production | | | | | | | |
| | Livestock Breeding | Dairying | • Timely insemination and lack of superior germplasm | OFT | Artificial insemination techniques | 01 | 15 | Dr. Jayadevappa G.K. |
| 11.4 | Home Science | | | | | | | |
| 11.5 | Plant Protection | | | | | | | |
| | Integrated Pest Management | Arecanut | • Bacterial leaf stripe | Integrated management of bacterial leaf stripe | Identification of symptoms and integrated management practices in Arecanut | 02 | 50 | Sri Prasannakumara N. Sri. Basavanagowda M.G. |
| | Integrated Pest Management | Cotton | • Sucking pests (aphids thrips, mealybug and mirid bug) | IPM in cotton | Sucking pest management in Cotton | 02 | 50 | Sri Prasannakumara N |
| 11.6 | Production of Inputs at Site | | | | | | | |
| 11.7 | Soil Health and Fertility | | | | | | | |
| 11.8 | PHT and value addition | | | | | | | |

| | | | | | | | | |
|-------|--|------|---------------|----------|--|----|------------|--|
| 11.9 | Capacity Building Group Dynamics | | | | | | | |
| 11.10 | Farm Mechanization | | | | | | | |
| 11.11 | Fisheries Production Technologies | | | | | | | |
| | Fisheries | Fish | Mono cropping | Training | Production marketing of ornamental fishes in rural areas | 02 | 10 in each | Dr. Devaraja T.N. Sri. Raghuraja J. |
| 11.12 | Mushroom production | | | | | | | |
| 11.13 | Agro forestry | | | | | | | |
| 11.14 | Bee Keeping | | | | | | | |
| 11.15 | Sericulture | | | | | | | |

12 Trainings for Extension Personnel during 2013-14

| S.No. | Thematic area | Training Course Title** | No. of Courses | Expected No. of participants | Names of the team members involved |
|-------|---|--|----------------|------------------------------|------------------------------------|
| 12.1 | Crop Production | | | | |
| | | <ul style="list-style-type: none"> Use of growth regulators, micronutrient (MgSO₄) in Cotton | 01 | 20 | Sri. Mallikarjuna B.O. |
| 12.2 | Home Science | | | | |
| 12.3 | Capacity Building and Group Dynamics | | | | |

| | | | | | |
|-------|--|---|----|----|---|
| 12.4 | Horticulture | | | | |
| | | <ul style="list-style-type: none"> Impact of Banana Special in improving the productivity of Banana Special in Davanagere district | 02 | 50 | Mr.Basavanagowda M G Mr.Raghuraja J |
| | | <ul style="list-style-type: none"> Role of green manure crops in increasing the fertility status in plantation crops | 02 | 50 | Mr.Basavanagowda M G Mr.Prasannakumara N |
| 12.5 | Livestock Production & Management | | | | |
| | Clean Milk production | Importance of quality and clean milk production | 02 | 50 | Dr. Jayadevappa G.K. |
| | Livestock Nutrition | Alleviation of reproductive problems in dairy animals through balanced nutrition | 02 | 50 | Dr. Jayadevappa G.K. |
| 12.6 | Plant Protection | | | | |
| | Integrated Pest and Disease Management | IPDM in Cotton Arecanut, Rice and Redgram | 03 | 50 | Sri Prasannakumara N. |
| 12.7 | Farm Mechanization | | | | |
| | Farm Mechanization | <ul style="list-style-type: none"> Production techniques in Rice nursery for mechanized transplanting | 01 | 30 | Sri. Mallikarjuna B.O. |
| 12.8 | PHT and value addition | | | | |
| 12.9 | Production of Inputs at Site | | | | |
| 12.10 | Sericulture | | | | |
| 12.11 | Fisheries | | | | |
| | Fisheries | <ul style="list-style-type: none"> Aquaculture for improving farm income | 01 | 20 | Dr. Devaraja T.N. Sri. Raghuraja J. |

13 Vocational trainings during 2013-14

| Sl. No. | Thematic area and the Crop/Enterprise | Training title* | No. of programmes and Duration (days) | Type of Clientele | Expected No. of participants | Sponsoring agency if any | Names of the team members involved |
|---------|--|--|---------------------------------------|--------------------|------------------------------|---|---|
| 13.1 | Crop Production | | | | | | |
| | Organic manure Sugarcane and maize | <ul style="list-style-type: none"> Recycling of the crop waste (Sugarcane trash) into a enriched vermicompost | 01 no. 06 days | SHG | 50 | ATMA, Department of Agriculture, Davanagere | Sri. Mallikarjuna B.O. Dr. Jayadevappa G.K. |
| 13.2 | Home Science | | | | | | |
| 13.3 | Capacity Building and Group Dynamics | | | | | | |
| 13.4 | Horticulture | | | | | | |
| | | <ul style="list-style-type: none"> Empowerment of rural youths in Coconut palm climbing | 2(6 Days) | Rural Youths | 40 | Coconut Development Board, Bangalore | Mr.Basavanagowda M G Mr.Prasannakumara N |
| 13.5 | Livestock Production & Management | | | | | | |
| | Scientific Dairy Farming | <ul style="list-style-type: none"> Scientific dairy farming | 02 (10 days) | DDFA members, SHGs | 40 | Zilla Panchayat, Davanagere | Dr. Jayadevappa G.K |
| | Stall Feeding methods in sheep rearing | <ul style="list-style-type: none"> Stall feeding methods in Sheep rearing | 2 (8-days) | SHGs 30 | 30 | Zilla Panchayat, Davanagere | Dr. Jayadevappa G.K |
| 13.6 | Plant Protection | | | | | | |
| | Bio agent production | Mass multiplication of <i>Trichoderma</i> bio agent | 01 (06 days) | SHG | 25 | Agriculture Department, Davanagere | Sri. Prasannakumara N. |
| 13.7 | Farm Mechanization | | | | | | |
| 13.8 | PHT and value addition | | | | | | |
| 13.9 | Production of Inputs at Site | | | | | | |

| | | | | | | | |
|-------|--------------------|---|------------|-------|----|------|--|
| 13.10 | Sericulture | | | | | | |
| 13.11 | Fisheries | | | | | | |
| | Fisheries | Integrated fish farming | 01, 3 days | SHGs | 30 | ATMA | Dr. Devaraja T.N. Sri. Raghuraja J. |
| | Fish | Ornamental fish production in rural areas | 01, 3 days | Women | 10 | ATMA | Dr. Devaraja T.N. Sri. Raghuraja J. |

14 Sponsored trainings during 2013-14

| Sl.No. | Thematic area and the Crop/Enterprise | Training title* | No. of programmes and Duration (days) | Type of Clientele | Expected No. of participants | Sponsoring agency | Names of the team members involved |
|--------|--|--|---------------------------------------|-------------------|------------------------------|-------------------------------------|---|
| 14.1 | Crop Production | | | | | | |
| | • Higher yield Maize and Cotton | ICM in Cotton and maize | 01 01 | Field assistants | 40 | Dhanku Agri tech Ltd | Sri. Mallikarjuna B.O. |
| 14.2 | Home Science | | | | | | |
| 14.3 | Capacity Building and Group Dynamics | | | | | | |
| 14.4 | Horticulture | | | | | | |
| | | Recent trends in production technology of Plantation crops | 02(03) | Youths | 100 | National Horticulture Mission (NHM) | Mr.Basavanagowda M G Mr.Prasannakumara N |
| 14.5 | Livestock Production & Management | | | | | | |
| | Income Generating Activities 1. Dairying and Vermicompost | Integrated dairy farming and vermicompost production | 10 (6 days) | Women SHGs | 400 | Zilla Panchayath | Dr. Jayadevappa G.K. Dr. Devaraja T.N. |
| | 2. Sheep rearing | Stall feeding | 2 | Women | 40 | Zilla | Dr. Jayadevappa G.K. |

| | | | | | | | |
|-------|-------------------------------------|--------------------------|--------------|-----------------|----|-------------------------|------------------------|
| | | methods in Sheep rearing | (6 days) | SHGs | | Panchayath | Dr. Devaraja T.N. |
| 14.6 | Plant Protection | | | | | | |
| | IPDM Rice and Cotton | IPDM in Rice and Cotton | 01 (01 days) | Field Assistant | 30 | Dhanuka pesticides Ltd. | Sri. Prasannakumara N. |
| 14.7 | Farm Mechanization | | | | | | |
| 14.8 | PHT and value addition | | | | | | |
| 14.9 | Production of Inputs at Site | | | | | | |
| 14.10 | Sericulture | | | | | | |
| 14.11 | Fisheries | | | | | | |

15. Extension programmes during 2013-14

| Sl.No. | Extension programme* | No. of programmes or activities | Expected No. of participants | Names of the team members involved |
|--------|---|---------------------------------|------------------------------|---|
| 15.1 | Advisory Services | 1000 | 1000 | Programme Coordinator and All SMS |
| 15.2 | Diagnostic visits | 20 | | |
| 15.3 | Field Day | 16 | 900 | |
| 15.4 | Group discussions | 15 | 100 | |
| 15.5 | Kisan Ghosthi | 01 | 150 | |
| 15.6 | Film Show | 40 | 1200 | |
| 15.7 | Self -help groups (Community Based Organizations) | 06 | 120 | |
| 15.8 | Kisan Mela | 01 | | |
| 15.9 | Exhibition | 05 | | |
| 15.10 | Scientists' visit to farmers field | 70 | | |
| 15.11 | Plant/Soil health/Animal health camps | 05 | 200 | |
| 15.12 | Farm Science Club | 01 | 30 | |
| 15.13 | Ex-trainees Sammelan | 01 | 200 | |
| 15.14 | Farmers' seminar/workshop | 10 | 500 | |
| 15.15 | Method Demonstrations | 15 | 450 | |
| 15.16 | Celebration of important days | 03 | 50 | |
| 15.17 | Special day celebration | 04 | 450 | |
| 15.18 | Exposure visits | 05 | 150 | |
| 15.19 | Technology week | 01 | 1000 | |
| 15.20 | FFS | 01 | 50 | |
| 15.21 | Farm innovators meet | 01 | 200 | |
| 15.22 | Awareness programs | 04 | 300 | |
| | Others | | | |
| | 1. Kisan Mobile Advisory Services | 100 | 3000 | |
| | 2. Radio Talk | 22 | | |
| | 3. TV Talk | 31 | | |
| | 4. Popular Articles | 10 | | |
| | 5. News Papers Coverage | 50 | | |

16. Activities proposed as Knowledge and Resource Centre during 2013-14

16.1 Technological knowledge

| Sl.No. | Category | Details of technologies | Area (ha)/ Number | Names of the team members involved |
|--------|---|--|--|---|
| 16.1.1 | Technology Park/ Crop cafeteria | Demo unit | | |
| | 1. Fish seed production unit | Fish seed production | 01 | Dr. Devaraja T.N. Dr. Jayadevappa G.K. Sri Raghuraja J. |
| | 2. Production unit ornamental fish unit | Live bearing ornamental fishes | 01 | |
| | 3. Vegetable Crop cafeteria | Crop cafeteria of varieties developed by IIHR Bangalore for Davanagere district | 0.2 ha | Mr.Basavanagowda M G Dr. Devaraja T.N. |
| 16.1.2 | Demonstration Units Instructional farm | Crossbred cow dairy unit Milking machine Fodder cutting machine Azolla pond unit Polyculture of fishes | 10-cow unit 01 01 01 5 gunta | Dr. Jayadevappa G.K. Dr. Devaraja T.N. |
| | Fruit orchard | Drumstick Block (KDM -1) + Coconut germ plasm Mixed fruit orchard | 0.2 ha 0.4 ha | Mr.Basavanagowda M G Dr. Devaraja T.N. |
| 16.1.3 | Lab Analytical services | Soil, water and plant analysis | 3 No. | SMS (Soil Science) Programme Assistant (LT) |
| | Lab Analytical services | Plant Health Clinic | 225 | Sri. Prasannakumara N. SMS (Plant Protection) |
| 16.1.4 | Technology Week | FLD and OFT plots | 1 ha. | Programme Coordinator, All SMS & Farm Manager |
| | | Frontline Demonstration and on farm trials, demonstration units in the KVK instructional farm will be exhibited. An agricultural exhibition will be organized in collaboration with Development Departments, Agri input agencies. Seminars and Ghosties will be organized on the occasion. | 1 (5 days) | All the staff members |
| | | Vermicompost unit Vermiculture unit Azolla Demo unit Varietal Fodder plot | 06 02 01 01 acre | Dr. Jayadevappa G.K. Sri Vijayakumara S.B. |

16.2 Technological Products

| Sl.No. | Category | Name of the product | Quantity (Q.)/ Number planned to be produced during 2013-14 | Names of the team members involved |
|--------|--------------------|---------------------------------|---|--|
| 16.2.1 | Seeds | Redgram seeds | 4 q | Farm Manger Programme Assistant |
| | | Cowpea seeds | 2 q | |
| | | Blackgram seeds | 2 q | |
| | | Frenchbean seeds | 0.6 q | |
| 16.2.2 | Planting materials | Fodder rootslips | 2.0 lakh cuttings | Dr. Jayadevappa G.K. Sri Vijayakumara S.B. |
| | | Azolla culture | 1000 kg | Dr. Jayadevappa G.K. |
| | | Mango seedlings (Alphanso) | 3000 | Mr.Basavanagowda M G |
| | | Sapota seedlings (Cricket Ball) | 1000 | Mr.Basavanagowda M G |
| | | Drumstick seedlings (KDM-1) | 8000 | Mr.Basavanagowda M G |
| | | Lime seedlings (Jagalur Local) | 1000 | Mr.Basavanagowda M G |
| | | Sugarcane sets – COVC-2003-165 | 40 tons | Farm Manger, SMS (Agronomy) Programme Assistant (Lab. Technician) |
| | | Banana suckers (G9 & Yelakki) | 1600 No. | Farm Manger Programme Assistant Mr.Basavanagowda M G |
| 16.2.3 | Bio-products | Trichoderma | 10 q | Sri Prasannakumara N. |
| | | Vermicompost | 20 tonnes | Dr. Jayadevappa G.K. Sri Vijayakumara S.B. |
| | | Earth worms | 40-50 kg | Dr. Jayadevappa G.K. |
| | | Bio – gas | 10 cu.ft gas / day | Dr. Jayadevappa G.K. Sri Raghuraja J. |
| 16.2.4 | Livestock Strains | Good pedigree calves | 5-6 | Dr. Jayadevappa G.K. |
| 16.2.5 | Fish fingerlings | 1. Common carp fingerlings | 1, 00,000 fry | Dr. Devaraja T.N. |
| | | 2. Ornamental fishes | 5000 | Dr. Jayadevappa G.K. Sri Raghuraja J. |

16.3 Technological Information

| Sl. No. | Category | Technological capsules / Number | Names of the team members involved |
|-------------|---|---|--|
| 16.3.1 | Technology backstopping to line departments | | |
| | Agriculture | 04 | Sri Prasannakumara N. |
| | | 03 | Sri Mallikarjuna B O |
| | Horticulture | 03 | Sri Prasannakumara N. |
| | | 10 | Mr.Basavanagowda M G |
| | Animal Husbandry: To popularize the production of silage among dairy and sheep farmers. Popularize the production of DHN-6 fodder and azolla culture. | 01 | Dr. Jayadevappa G.K. |
| | Fisheries- Advances in aquaculture | 01 | Dr. Devaraja T.N. Dr. Jayadevappa G.K. Sri. Raghuraja J. |
| | Agricultural Engineering | | |
| Sericulture | 01 | Sri Prasannakumara N. | |
| 16.3.2 | Literature/publication | | |
| | Leaf lets | 01 | Dr. Jayadevappa G.K. Sri. Raghuraja J. |
| | | 03 | Sri Basavanagowda M.G. Sri. Raghuraja J. |
| | | 02 | Sri Mallikarjuna B.O. Sri. Raghuraja J. |
| | | 04 | Sri Prasannakumara N. Sri. Raghuraja J. |
| 02 | | Sri Revanasiddappa G.B.P Sri. Raghuraja J. | |

| | | | |
|-------------|---|--|--|
| | Folders | 03 | Sri Prasannakumara N. Sri. Raghuraja J. |
| | | 01 | Dr. Devaraja T.N. Dr. Jayadevappa G.K. Sri. Raghuraja J. |
| | Scheme information | 01 | Dr. Devaraja T.N. Dr. Jayadevappa G.K. Sri. Raghuraja J. |
| | Books | 02 | Sri Basavanagowda M.G. |
| | | | Sri Prasannakumara N. |
| News Letter | 04 | Dr. Devaraja T.N. Sri. Raghuraja J. | |
| 16.3.4 | Electronic Media | 02 | Sri Revanasiddappa G.B.P |
| | Television | 10 | Mr.Basavanagowda M G |
| | | 3 | Dr. Jayadevappa G.K. |
| | | 06 | Sri Prasannakumara N. |
| | | 07 | Sri Mallikarjuna B.O. |
| | | 05 | Sri Prasannakumara N. |
| | Radio | 05 | Sri Prasannakumara N. |
| | | 02 | Dr. Jayadevappa G.K. |
| | | 05 | Mr.Basavanagowda M G |
| | | 05 | Sri Mallikarjuna B.O. |
| 05 | | Dr. Devaraja T.N. | |
| 16.3.5 | Kisan Mobile Advisory Services | 100 | Dr. Devaraja T.N. All SMS and Computer Programmer |
| 16.3.6 | Information on centre/state sector schemes and service providers in the district. | The information will be modified by adding recent information. August – 2013 | Sri. Raghuraja J. Dr Devaraja T.N. |

17. Additional Activities Planned during 2013-14

| S.No. | Name of the agency / scheme | Name of activity | Technical programme with quantification | Financial outlay (Rs.) | Names of the team members involved |
|-------|--|---|--|------------------------|--|
| 17.1 | ATMA, Department of Agri., Davanagere | Artificial insemination service | Artificial insemination service with good breeds semen. 200 AIs / month | 1,50,000/- | Dr. Jayadevappa G.K. Dr. Devaraja T.N. and DDFA |
| 17.2 | ATMA, Davanagere | Short term project “Demonstration of breeding of carps and training” (2013-14) | Common carp seed production will be demonstrated to farmers. One lakh fry of common carp are planned to be produced and supplied to growers. | 2,00,000/- | Dr. Devaraja T.N. Sri Raghuraja J. |
| 17.3 | NICRA | Crop Technology Demonstration | - | - | Dr. Devaraja T.N. Sri Mallikarjuna B.O. Dr. Jayadevappa G.K. |
| 17.4 | INSIMP | Millet processing. | Grading and cleaning of millets will be demonstrated to farmers. | - | Sri Mallikarjuna B.O. Dr. Devaraja T.N. |
| 17.5 | BRNS, Mumbai and Davanagere University | Irradiation effect on Lichen Symbionts for the improvement of Soil Fertility from Chitradurga Fort area, Karnataka. | - | - | Dr. Devaraja T.N. Co- Principal investigator |
| 17.6 | KSBDB, Bengaluru | District Bio Fuel Information and Demonstration Centre | - | - | Dr. Devaraja T.N. Sri Vijayakumara S.B. |
| 17.7 | Sahaja Samrudha (NGO) | “Redrice fair” (1 day marketing exhibition) | - | - | Dr. Devaraja T.N. Sri Raghuraja J. |

| | | | | | |
|-------|--|--|---|------------|--|
| 17.8 | Comprehensive Horticulture Development Scheme(CHD), Dept of Horticulture, Govt. of Karnataka | Training | 2 Trainings for the 100 Banana farmers on value addition | 25,000/- | Mr.Basavanagowda M.G. |
| 17.9 | Agriculture Technology Management Agency(ATMA) | Training | 2 Trainings for 100 unemployed rural youths | 1,50,000/- | Mr.Basavanagowda M.G. |
| 17.10 | Comprehensive Horticulture Development Scheme(CHD), Dept of Horticulture, Govt. of Karnataka | Training | 2 Trainings for the 100 Banana farmers on value addition | 25,000/- | Mr.Basavanagowda M.G. |
| 17.11 | KSBDB, Bangalore | Preparation of juice from Simaroba fruits | Training for 25 women SHG members | 25,000/- | Dr. Devaraja T.N. Raghuraja J. |
| | KSBDB, Bangalore | Use of Simarouba cake as feed for ornamental fishes | Replacing costly Groundnut oil cake | 25,000/- | Dr. Devaraja T.N. and Biofuel IDC team |
| 17.12 | KSSTA, Bangalore | One day national forum for promotion of pond aquaculture in middle Karnataka | Workshop (50 members) | 25,000/- | Dr. Devaraja T.N. Raghuraja J. |
| 17.13 | ATMA, Davanagere | Innovative programme | Artificial insemination training programme (25 rural youth in the district will be trained for duration of 1 month) | 21,250/- | Raghuraja J. Dr. Jayadevappa G.K. |

| | | | | | |
|-------|--------------------------------|-------------------------------|--|---|--------------|
| 17.14 | Tara labalu KVK, Davanagere | Impact studies | <ol style="list-style-type: none"> 1. FLD on ICM of groundnut 2. FLD on ICM of cotton 3. Training on CMP 4. FLD on velvet beans as a intercrop in arecanut 5. Training on Azolla as feed ingredient 6. FLD on Arka Suvidha Frenchbean | - | Raghuraja J. |
| 17.15 | Tara labalu KVK, Davanagere | Community based organizations | <ol style="list-style-type: none"> 1. Minor millet growers association – Bennihalli, Harapanahalli tq. 2. Backyard poultry farming farmers association – Kambattahalli, Harapanahalli tq 3. Women SHGs – Alur, Jagalur tq 4. Mango growers association – Doddahabbigere, Channagiri tq 5. Vegetable growers association – Kodaganuru, Davanagere tq 6. Maize growers association – Hanumantapura, Jagalur tq | - | Raghuraja J. |

Innovative Programme

Davanagere Dairy Farmers Association

DDFA is first of its kind in the state and second in the country (First in Punjab). It is an association of the farmers who are actively involved in dairy activities keeping 4 to 20 Dairy Animals. At present 50 farmers from all 6 Talukas of Davanagere District have become members and the Association was registered in November, 2012.

At present nearly 22,000 farm families are involved in dairy business in the district. There are quite a huge number of problems these families are facing viz., lack of good health coverage, lesser price for milk, non-availability of good quality fodders and feeds, lack of awareness on rearing cross bred cows and buffalos and clean milk production etc.

Davanagere District comprises 4,51,150 cattle and 2,20,470 buffalos and producing around 7.5 - 8.0 lakh its of milk a day. Around 632 milk co-operative societies are functioning in the district (SHIMUL) handling around 20 % of the total production. The remaining 80 % of milk is handled by un-organized sector.

DDFA is conducting monthly meeting to discuss the issues and decide about the viable solution to each problem. During the meeting technical seminar will be organized in the subject of farmers interest. Pharmaceutical Co., Feed Co. Dairy industry representatives will also participate and give knowledge on their products

Objectives of the programme:

- To produce clean and quality milk (National problem).
- To provide advisory services and to train rural youths in artificial insemination services.
- To facilitate farmer to farmer interaction which helps in faster technology spread and identification of ITKs.
- To conduct workshops / seminars / exposure visits which are helpful to the farmers.

Budget : 4 Lakhs.

| 18. Revolving Fund | | | | | |
|---|---------------------------------------|-----------------|-----------------|---------------------------------------|--|
| 18.1 Financial Status (Rs. In lakhs) | | | | | |
| Particulars | Opening Balance as on 01.04.12 | Payments | Receipts | Closing Balance as on 31.03.13 | Expected Closing Balance 31.03.14 |
| TOTAL | 1.65 | 32.90 | 33.10 | 1.85 | 11.26 |

18.2 Plan of activities under Revolving Fund

| Sl. No. | Proposed activities | Expected output | Anticipated income (Rs.) | Names of the team members involved |
|----------------|---|--------------------------------|---------------------------------|---|
| 18.2.1 | Sugarcane seed production | 40 tons | 55,000-00 | Sri Vijayakumara S.B. |
| | Sugarcane commercial production | 120 tons | 1,50,000-00 | Sri. Revanasiddappa G.B.P. |
| 18.2.2 | Soil and Water testing | 750 samples | 60,000-00 | Sri. Revanasiddappa G.B.P. |
| 18.2.3 | Establishment of Azolla production unit (4 ponds – 5 kgs per day) | 5 kg Azolla per day | 8000-00 | Dr. Jayadevappa G.K |
| 18.2.4 | Vermiculture units (2 units) | 50-60 | 12500-00 | Dr. Jayadevappa G.K |
| 18.2.5 | Polyculture of fishes | 2 q | 10000-00 | Dr. Devaraja T.N. Dr. Jayadevappa G.K. |
| 18.2.6 | Ornamental fishes | 5000 | 5000-00 | Dr. Devaraja T.N. |
| 18.2.7 | Breeding of carps | 1 lakh | 10000-00 | Dr. Devaraja T.N. |
| 18.2.8 | Fish cum paddy | 3 q paddy | 4500-00 | Dr. Devaraja T.N. |
| | | 80 kg fish | 4000-00 | Sri Vijayakumara S.B. Sri. Revanasiddappa G.B.P. |
| 18.2.9 | Horticulture nursery | 13000 Seedlings | 2.0 lakhs | Mr.Basavanagowda M.G. |
| 18.2.10 | Banana Special | 2000 kg | 1.00 lakhs | Mr.Basavanagowda M.G. Mr.Revanasiddappa G.B.P. |
| 18.2.11 | Millet processing under insimp | 10 q (Cleaning) 5 q (Flour) | 15,000-00 | Sri Mallikarjuna B.O. |
| 18.2.12 | Plant Health Clinic (Trichoderma Production) | 1000 kg | 25,000-00 | Sri Prasannakumara N. Sri Revanasiddappa G.B.P. |

| | | | | | |
|---------|---------------------------------------|---------|-----------------|-----------|--|
| 18.2.13 | Animal Rearing unit (Milk production) | | 7200 liter | 80,000-00 | Dr. Jayadevappa G.K. |
| 18.2.14 | Fodder | | 150000 cuttings | 75,000-00 | |
| 18.2.15 | Farmers Hostel | | 150 days | 85,000-00 | Sri. Raghuraja J. |
| 18.2.16 | Banana suckers | G9 | 400 suckers | 15,000-00 | Sri Vijayakumara S.B. |
| 18.2.17 | | Yelakki | 1200 suckers | 35,000-00 | Sri. Revanasiddappa G.B.P. Sri Basavanagowda M.G. |
| 18.2.18 | Cowpea | | 200 kg | 10,000-00 | Sri Vijayakumara S.B. Sri. Revanasiddappa G.B.P. |
| 18.2.19 | Blackgram | | 200 kg | 10,000-00 | |
| 18.2.20 | Frenchbean | | 60 kg | 5,000-00 | |
| 18.2.21 | Redgram | | 400 kg | 20,000-00 | |
| 18.2.22 | Arecanut | | 50 kg | 5,000-00 | |
| 18.2.23 | Mango orchard | | 500 kg | 10,000-00 | |
| 18.2.24 | Sapota orchard | | -- | -1,000-00 | |
| 18.2.25 | Tamarind | | -- | 4,000-00 | |

19. Activities of soil, water and plant testing laboratory during 2013-14

| Sl.No. | Type | No. of samples to be analyzed | Names of the team members involved |
|--------|--------|-------------------------------|---|
| 19.1 | Soil | 600 | Subject Matter Specialists & Programme Assistant (LT) |
| 19.2 | Water | 250 | |
| 19.3 | Plant | 225 | |
| 19.4 | Others | 10 | |

20. E-linkage during 2013-14

| Sl. No | Nature of activities | Likely period of completion (please set the time frame) | Remarks if any |
|--------|--|---|---|
| 20.1 | Title of the technology module : Clean milk production | December – 2013 | -- |
| 20.2 | Creation and maintenance of relevant database system for KVK | August – 2013 | Data base on soil, water test, Radio talk, TV talk and Guest lecture completed. Database on training, FLD, OFT and others. |

21. Activities planned under Rainwater Harvesting Scheme - Nil**22. Innovative Farmer's Meet**

| Sl. No. | Particulars | Details |
|---------|--|---|
| 22.1 | Are you planning for conducting Farm Innovators meet in your district? | Yes |
| 22.2 | If Yes, likely month of the meet | December 2013 |
| 22.3 | Brief action plan in this regard | Innovative farmers will be identified with the help of Development Departments in the district. Ten such special farmers will be invited to KVK to address the gathering of interested farmers. This interactive meet will be the platform to share their unique profitable farming and non-farm experiences for the benefit of all. Their presentation will be displayed as models and charts. |

23. Farmer's Field School planned

| Sl. No | Thematic area | Title of the FFS | Budget proposed in Rs. |
|--------|---|--|--|
| 23.1 | Integrated nutrient management. Integrated pest and disease management | Integrated crop management in Arecanut | <p>Critical inputs</p> <p>Velvet beans – 5 kg 400-00</p> <p>Zinc sulphate – 30 kg 1300-00</p> <p>Borax – 18 kg 1800-00</p> <p>Total 3500-00</p> <p>Meals and refreshment 8000-00</p> <p>FFS kit 10000-00</p> <p>Exposure visit 5000-00</p> <p>Literature 3500-00</p> <p>Total 30000-00</p> |

| 24. Budget - Details of Budget Utilization (2012-13) Upto 31st March 2013 | | | | |
|--|--|-------------------|-----------------|--------------------|
| (Rupees) | | | | |
| Sl. No. | Particulars | Sanctioned | Released | Expenditure |
| 24.1 | Recurring Contingencies : | | | |
| 24.1.1. | Pay & Allowances | 710000 | 7022183 | 7100000.00 |
| 24.1.2 | Travelling Allowances | 100000 | 100000 | 99995.60 |
| 24.1.3 | Contingencies | 1000000 | 1000000 | 996836.06 |
| 24.1.4.A. | Stationery, Telephone, Postage and Other Expenditure on Office Running, Publication of News Letters and Library Maintenance. | 190000 | 190000 | 187893.50 |
| B. | POL, Repair of Vehicles, Tractor and Equipments | 165000 | 165000 | 164994.56 |
| C. | Meals/Refreshment for Trainees | 50000 | 50000 | 49953.00 |
| D. | Trailing Materials | 50000 | 50000 | 49999.00 |
| E. | Front Lione Demonstrations (FLD) | 400000 | 400000 | 399937.00 |
| F. | OFT - On Farm Testing | 40000 | 40000 | 39423.00 |
| G. | Training of Extension Functionaries | 25000 | 25000 | 24920.00 |
| H. | Maintenance of Building | 25000 | 25000 | 24882.00 |
| I. | Extension Activities | 25000 | 25000 | 24870.00 |
| J. | Farmers Field School | 25000 | 25000 | 24966.00 |
| K. | Mtc. of Library | 5000 | 5000 | 4998.00 |
| 24.1. | TOTAL of Recurring - A | 1810000 | 8122183 | 8196831.66 |
| 24.2. | Non-Recurring Contingencies : | | | |
| 24.2.1 | Works | 0 | 0 | 0.00 |
| 24.2.2 | Equipments including SWTL & Furniture | 0 | 0 | 0.00 |
| 24.2.3 | Vehicles (Four Wheeler/Two Wheeler) | 0 | 0 | 0.00 |
| 24.2.4 | Library | 0 | 0 | 0.00 |
| 24.2. | TOTAL of Non-Recurring - B | 0 | 0 | 0 |
| 24.3 | REVOLVING FUND | 0 | 0 | 0.00 |
| | TOTAL - C | 0 | 0 | 0.00 |
| 24.4 | GRAND TOTAL (A + B + C) | 1810000 | 8122183 | 8196831.66 |

| 25. Details of Budget Estimate (2013-14) based on Proposed Action Plan | | |
|---|---|----------------------------|
| | | (Rupees) |
| Sl. No. | Particulars | BE 2013-14 Proposed |
| 25.1 | Recurring Contingencies : | |
| 25.1.1. | Pay & Allowances | 8200000.00 |
| 25.1.2 | Travelling Allowances | 500000.00 |
| 25.1.3 | Contingencies | 1936240.00 |
| 25.1.3. | A. Stationery, Telephone, Postage and Other Expenditure on Office Running, Publication of News Letters and Library Maintenance. | 350000.00 |
| | B. POL, Repair of Vehicles, Tractor and Equipments | 300000.00 |
| | C. Meals/Refreshment for Trainees | 200000.00 |
| | D. Training Materials (Posters, Charts, Demon. Materials) | 100000.00 |
| | E. Front Line Demonstrations (FLD) [14 demons in a year] | 200000.00 |
| | F. OFT - On Farm Testing (on need based, location specific and newly generated information in the major production systems of the area) | 100000.00 |
| | G. I.F.S. in Dryland Agriculture in Farmers Field | 50000.00 |
| | H. Training of Extension Functionaries | 50000.00 |
| | I. Maintenance of Building | 50000.00 |
| | J. Extension Activities | 50000.00 |
| | K. Farmers Field School | 30000.00 |
| | L. Mtc. of Library | 15000.00 |
| | M. I.F.S. in KVK Farm | 200000.00 |
| | N. Innovative programme | 50000.00 |
| 25.1. | TOTAL of Recurring - A | 10445000.00 |

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| 25.2. | Non-Recurring Contingencies : | |
| 25.2.1 | Works | 21594000.00 |
| | <i>Vehicle-Implements Shed, 18.92 SQM</i> | 300000.00 |
| | <i>Storage Godown, 14.42 SQM</i> | 300000.00 |
| | Seminar-Cum-Exhibition Hall, 200 SQMs | 2600000.00 |
| | Dormitory | 4500000.00 |
| | Open-air Class Room | 500000.00 |
| | Farmer-Cum-KVK Mall | 500000.00 |
| | Record Room | 600000.00 |
| | Computer Room | 500000.00 |
| | Stall Feeding (Goat/Sheep 100 No.s) Unit | 800000.00 |
| | Fence for KVK Farm | 2000000.00 |
| | Tar Road in KVK Farm | 1000000.00 |
| | Ornamental Fish Tanks and Shed, 300 SQM | 1500000.00 |
| | Farm Pond for Rain Harvesting (300 x 30 x 10 m3) | 504000.00 |
| | Additional Staff Quarters, 300 SQM | 4200000.00 |
| | <i>Over Head Water Tank</i> | 1790000.00 |
| | | |
| 25.2.2 | Equipments including SWTL & Furniture | 8440820.00 |
| | <i>Agricultural Equipments (Power Sprayer, Tractor Mounted Water Tanker, Plough, Compressor, Areators)</i> | 1000000.00 |
| | <i>Office Equipments</i> | 1200000.00 |
| | <i>Furniture & Furnishings</i> | 1000000.00 |
| | <i>AV Aids</i> | 500000.00 |
| | <i>Fixtures & Fittings</i> | 730820.00 |
| | <i>Sprinklet & Mist Unit</i> | 300000.00 |
| | <i>General Equipments (RO, Solar Heater & Lights, Cow Guard)</i> | 2000000.00 |
| | <i>Lab.Equipments (AAS)</i> | 1500000.00 |
| | <i>Dairy Animals</i> | 210000.00 |
| | | |

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|--------------|--|--------------------|
| 25.2.3 | Vehicles (Four Wheeler/Two Wheeler) | 1590000.00 |
| | [01] TATA SUMO Grande / Mahindra Xylo | 900000.00 |
| | [02] Hero Honda Splender (Two Wheeler, 2 No.s) | 120000.00 |
| | [03] Active Honda for Ladies Staff | 70000.00 |
| | [04] Mini Truck | 500000.00 |
| 25.2.4 | Library | 100000.00 |
| 25.2. | TOTAL of Non-Recurring - B | 31724820.00 |
| 25.3 | REVOLVING FUND | 0.00 |
| | TOTAL - C | 0.00 |
| 25.4 | GRAND TOTAL (A + B + C) | 42527070.00 |

Plan for up scaling/ Out scaling of recent successful interventions of KVK during the past 3 years

| Names of successful interventions of KVK during the last 3 years | Approaches to up-scale (within the system) | Approaches to out-scale (outside the system) |
|---|--|---|
| 1. FLD : ICM in banana with an emphasis on Banana Special technology | <ul style="list-style-type: none"> • Continued - 4 ha • Banana special – 2000 kg • Banana booklet • Mobile advisory service (vKVK) • Workshop for extension personnel | <ul style="list-style-type: none"> • Planning to include in CHD scheme in the district • TV and radio programmes • Public private partnership |
| 2. FLD : ICM in cotton with special emphasis on use of KNO ₃ and MgSO ₄ | <ul style="list-style-type: none"> • Continued - 4 ha • Mobile advisory service (vKVK) • Workshop for extension personnel • Folder | <ul style="list-style-type: none"> • TV and radio programmes • Farmer to farmer spread • Included in agriculture dept. demonstrations |
| 3. FLD : ICM in rice with a special emphasis on mechanization and nutrient management | <ul style="list-style-type: none"> • Continued - 4 ha • Mobile advisory service (vKVK) • Workshop for extension personnel • Folder | <ul style="list-style-type: none"> • TV and radio programmes • Farmer to farmer spread • Included in agriculture dept. demonstrations |
| 4. Training and demonstration : Azolla as feed ingredient in Animal Husbandry | <ul style="list-style-type: none"> • Mobile advisory service (vKVK) • Folder • Production – 400 kg | <ul style="list-style-type: none"> • TV and radio programmes • Farmer to farmer spread • Included in AH & VS dept. programme |
| 5. FLD : Fodder DHN-6 | <ul style="list-style-type: none"> • Mobile advisory service (vKVK) • Production 50,000 cuttings | <ul style="list-style-type: none"> • TV and radio programmes • Farmer to farmer spread • Public private partnership |
| 6. FLD: Velvet beans as an intercrop in Arecanut | <ul style="list-style-type: none"> • Continued - 4 ha • Mobile advisory service (vKVK) • Seed production – 200 kg | <ul style="list-style-type: none"> • TV and radio programmes • Farmer to farmer spread • Included in horticulture dept. demonstrations • Public private partnership seed production |

| | | |
|--|--|---|
| 7. FLD : ICM in Ragi (GPU-48) | <ul style="list-style-type: none"> • Continued - 6 ha • Mobile advisory service (vKVK) | <ul style="list-style-type: none"> • TV and radio programmes • Farmer to farmer spread • Seed production through farmers |
| 8. FLD : Popularization of Arka Suvidha variety of French bean | -- | <ul style="list-style-type: none"> • Seed production through farmers |
| 9. FLD: Polyculture of carps in ponds | FLD - 5 ha Trainings Fish seed production in KVK | <ul style="list-style-type: none"> • Linking farmers for departmental subsidy • TV and Radio programmes |
| 10. Training: FOCT | Trainings | <ul style="list-style-type: none"> • Publicise through RSKs and other line departments |