**ICAR-ATARI, ZONE-XI, HEBBAL, BANGALORE**

**PROFORMA FOR ACTION PLAN 2021-22**

**GUIDELINES**

**(Please read carefully before preparing action plan)**

1. It is mandatory to fill all the items of activities in the format. Further, additional activity/activities within the mandate which are relevant to increase income of farmers in the operational villages will be encouraged.
2. For the activities proposed to be continued, all the data of the previous year(s) must be presented, supported by visuals.
3. Please finalize the Doubling Farmers Income (DFI) document of the district first before taking up the action plan for 2020-21. Select villages and the technologies/interventions identified for DFI as the basis for Action Plan 2020-21.
4. Integrate all the ongoing major schemes like CFLDs, Seed Hub, NICRA, ARYA, Sujala, ASCI skill training, KKAetc as well as sponsored projects such as state/central sector projects, host organization activities and other agencies in the selected villages.
5. Villages where ongoing projects are implemented may be considered on priority as cluster villages (operational) for KVK action plan.
6. Household as a whole need to be emphasized with possible interventions to achieve significant increase in income within a short period of time. KVK can plan to cover all households in a phased manner.
7. Benchmark (baseline) data on extent of technology adoption, yield, cost and income must be clearly documented for the farm families covered so that the impact can be easily monitored and recorded after KVK interventions.
8. Decide on the number of households to be covered in each village based on schemes implemented and budget available.
9. Plan to involve all sections of the community and households (women, youth, SC/ST etc).
10. Action plan should include a combination of OFTs, FLDs, training and extension activities to achieve higher productivity/income.
11. Entire KVK team must be involved in the preparation of action plan for combination of interventions.
12. In the case of FLDs on varietal performance, ensure that the varieties / hybrids are not older than 10 years.
13. Vocational trainings, EDPs and Market interventions should be planned for value-chain oriented activities of the major crops/commodities.
14. Recommendations of SAC related to technical activities should be addressed in the action plan.

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

###### PROFORMA FOR ACTION PLAN OF KVKs IN ZONE XI FOR 2021-22

###### 1. General information about the KrishiVigyan Kendra

|  |  |  |  |
| --- | --- | --- | --- |
| 1.1 | Name and address of KVK with phone, fax and e-mail ID | : | **ICAR - KRISHI VIGYAN KENDRA,**  HAGARI-583 111, **BALLARI**  Dist.  Phone No. 08392-265080  Mobile No. 9480696317  e-mail : [kvkhagari@yahoo.com](mailto:kvkhagari@yahoo.com)  [pckvkballari@uasraichur.edu.in](mailto:pckvkballari@uasraichur.edu.in)  [www.kvk.Ballari@icar.gov.in](http://www.kvk.Ballari@icar.gov.in) |
| 1.2 | Name and address of host organization | : | University of Agricultural Sciences, Raichur – 584104.  Phone / Fax : 08352-220440, 08352-220152  e-mail : [de@uasraichur.edu.in](mailto:de@uasraichur.edu.in%20) ; [deuasr@gmail.com](mailto:deuasr@gmail.com) |
| 1.3 | Year of sanction | : | November 1995 |
| 1.4 | Website address of KVK and date of last update |  | www.kvkballari.org & |

**2.Details of staff as on 31-03-2020**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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. Ramesh, B.K. | Senior Scientist and Head  (Animal Science) | 37400-67000 | 9000 | 21-01-2021 | -- |
| 2.2 | Scientist | Dr. Govindappa, M.R. | Scientist (Plant Pathology) | 15600-39100 | 8000 | 05-08-2016 | -- |
| 2.3 | Scientist | Mr. V.Anandkumar | Scientist (Entomology) | 15600-39100 | 7000 | 12-08-2011 | -- |
| 2.4 | Scientist | Dr. Shilpa, H. | Scientist (Home Science) | 15600-39100 | 6000 | 28-04-2015 | -- |
| 2.5 | Scientist | Dr. Jaiprakash Narayan, R.P. | Scientist (Horticulture) | 15600-39100 | 7000 | 04-10-2018 | -- |
| 2.6 | Scientist | Dr. Ravi, S., | Scientist (Soil Science) | 15600-39100 | 7000 | 09-07-2020 | -- |
| 2.7 | Scientist | Vacant | Agronomy | -- | -- | -- | -- |
| 2.8 | Programme Assistant (Lab Assistant) | Vacant | Programme Asst. (Soil Science) | -- | -- | -- | -- |
| 2.9 | Programme Assistant (Computer Programmer working at UASR) | Mr. Ashok S. Mahendrakar | Technical Officer (Computer) | 9300-34800 | 4600 | 02-02-2009 | -- |
| 2.10 | Programme Assistant (Farm Manager) | Vacant | Farm Manager | -- | -- | -- | -- |
| 2.11 | Accountant/Superintendent | Mr. KeshavaNayaka P.G.R | Assistant | 30350-58250 | -- | 30-07-2017 | -- |
| 2.12 | Stenographer | Smt. B. Mamatha | Senior Assistant | 37900 | -- | 30-07-2020 | -- |
| 2.13 | Driver 1 | Mr. Siddappa | Driver (LV) | 30350-58250 | -- | 23-08-2018 | -- |
| 2.14 | Driver 2 | Mr. Veeranna Swamy | Tractor Driver | 30350-58250 | -- | 16-07-2007 | -- |
| 2.15 | Supporting staff 1 | Smt. M.Laxmamma | Farm Labour | 19950-37900 | -- | 03-01-1995 | -- |
| 2.16 | Supporting staff 2 | Sri P. Vijayashankar | Farm Labour |  |  |  | -- |

**3. Details of SAC meeting conducted during 2020-21**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Major recommendations** | **Status of action taken in brief** | **Reasons for no actions, if any** |
| 08-02-2021 |  |  |  |

**4. Details of operational areas proposed during 2021-22**

|  |  |  |  |
| --- | --- | --- | --- |
| **Clusters** | **Major crops & enterprises being practiced in cluster villages** | **Prioritized problems in these crops/ enterprise that limit yield and income** | **Proposed intervention (OFT, FLD, Training, extension activity etc.)\*** |
| **Cluster A** |  |  |  |
| Babbukunta / Shankarbande, BallariTq | Paddy, Jowar, Maize, Foxtailmillet, Cotton, Chilli, Bengalgram, Dairy and small ruminants | Monocropping, moisture stress/ water scarcity, BPH, blast and blight incidence in paddy, low yield, use of local varieties, shortage of labour, poor soil fertility, fall army worm menace in maize/jowar, micronutrients deficiency, leaf reddening in cotton, lack of awareness on processing and value addition, poor milk yield, shortage of fodder and nutrient deficiency, lack of awareness on health care of nomadic sheep and goat | OFT, FLD & training |
| **Cluster B** |  |  |  |
| Kurugodu  BallariTq | Paddy, Chilli, Cotton, Maize, Fig, Millets, Dairy and small ruminants | Monocropping, moisture stress/ water scarcity, BPH, blast and blight incidence in paddy, low yield, use of local varieties, shortage of labour, poor soil fertility. Rust in fig, leaf curl, powdery mildew, fruit rot in chilli, fall army worm and blight in maize, leaf reddening and pink bollworm menace in cotton, poor milk yield, shortage of fodder and poor growth in sheep and goat, lack of awareness on processing and value addition in field and horticulture crops. | OFT, FLD & training |
| **Cluster C** |  |  |  |
| Ramasagarahatti,  Gudekote,  KudligiTq | Groundnut, Maize, Jowar, Foxtailmillet, Tomato, Chilli and small ruminants | Low yield, moisture stress, use of local varieties, micronutrients deficiency, poor soil fertility, lack of awareness on processing and value addition, pest and disease menace, lack of awareness on health care of nomadic sheep and goat, poor growth pattern in nomadic sheep and goats. | OFT, FLD & training |
| **Cluster D** |  |  |  |
| Varadapura  Kenchatanahalli  H.B.HalliTq | Maize, Jowar, Groundnut, Millets, Onion, Vegetable crops, Pomegranate, Dairy and Small ruminants | Use of low yielding local varieties, moisture stress, micronutrients deficiency, poor soil fertility, pest and disease menace, poor milk yield, shortage of fodder and nutrient deficiency and lack of awareness on processing and value addition | OFT, FLD & training |
| **Cluster E** |  |  |  |
| Bairapura, Sirigere  SiruguppaTq | Paddy, Chilli, Cotton, Maize, Fig, Millets, Dairy and small ruminants | Monocropping, moisture stress / water scarcity, BPH, blast and blight incidence in paddy, low yield, use of local varieties, shortage of labour, poor soil fertility. Rust in fig, leaf curl, powdery mildew, fruit rot in chilli, fall army worm and blight in maize, leaf reddening and pink bollworm menace in cotton, poor milk yield, shortage of fodder and poor growth in sheep and goat, lack of awareness on processing and value addition in field and horticulture crops. | OFT, FLD & training |

**5. Technology assessment during 2020-21**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Crop/ enterprise** | **Prioritized problem** | **Title of intervention** | **Technology options** | **Source of technology** | **Name of critical input** | **Qty per trial (q)** | **Cost per trial (Rs.)** | **No. of trials** | **Total cost**  **(Rs.)** | **Parameters to be studied** | **Team members** | |
| 5.1 | Groundnut (Continued) | Low yield of local varieties and incidence of pest and diseases | Assessment of Groundnut varieties for yield, pest and diseases | T1-TMV-2 (FP) | -- | Seeds of  KDG-128, K6  PSB  *Rhizobium* | 100 kg  01 kg  01 kg | 10000  200  200  **10400** | 03 | 31200 | Yield, pest and disease incidence & Economics | Scientist (Entomology)  Scientist (Plant Pathology), Sr.Scientist & Head, &  Scientist (Animal Science) | |
| T2 – K-6 | ANGRAU, Hyderabad |
| T3 - G2-52/  GPBD-5 | UAS, Dharwad |
| T4 - KDG-128 | UAS, Raichur |
| 5.2 | Chickpea  (Continued) | Low yield of local varieties  and labour scarcity | Assessment of new chickpea varieties for yield and mechanical harvesting | T1-JG-11(FP) | -- | Seeds of  GBM 2, Nbeg 47 & BGD-103  PSB  *Rhizobium* | 75 kg  1 kg  1 kg | 5500  200  200  **5900** | 03 | 17700 | Yield & Economics | Sr.Scientist & Head,  Scientist (Entomology)  Scientist (Plant Pathology) &  Scientist (Animal Science) | |
| T2 – BGD 103 | UAS, Dharwad/  Raichur |
| T3 – GBM 2 | UASR |
| T4 - Nbeg-47 | ANGRAU |
| 5.3 | Chilli  (Continued) | Low yield , lack of uniformity, poor quality and  higher incidence of pest and diseases | Assessment of varieties for yield and disease incidence in Chilli | T1–Byadagi  (FP) | -- | Seeds of  G4 and  GPM-120-S-1  Vegetable special  Yellow &  Blue sticky traps | 500 g  500 g  3 kg  20 No. | 750  750  750  1000  **3250** | 03 | 9750 | Yield, quality, Pest and disease  incidence | Scientist (Horticulture), Scientist (Plant Pathology) & Senior Scientist and Head | |
| T2 - G-4 | UAS, Dharwad |
| T3–  GPM -120-S-1 | UHS, Bagalkot |
| 5.4 | Fodder crop  (Continued) | Low yield and need for a very high yielding perennial forage | Assessment of new forage, Super napier for its productivity and forage quality | T1 -NB -21 (FP) | UAS, Dharwad | 1. Super napier stem cuttings 2. Lab charges for Proximate composition analysis of forages | 2000 cuttings  02 | 2000  3000 | 05  05 | 10000  15000  **25000** | Fodder yield,  no. of tillers,  proximate composition & milk production | Scientist (Animal science),  Senior Scientist and Head &  Scientist (Plant Pathology) |
| T2 - Co-3 | TNAU, Coimbatore |
| T3 - Super napier | ANGRAU, Hyderabad |

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| **Sl.**  **No.** | **Crop/ enterprise** | **Prioritized problem** | **Title of intervention** | **Technology options** | **Source of technology** | **Name of critical input** | **Qty per trial (q)** | **Cost per trial (Rs.)** | **No. of trials** | **Total cost**  **(Rs.)** | **Parameters to be studied** | **Team members** |
| 5.1 | Rabi sorghum | Low yield of existing varieties | Assessment of rabi sorghum varieties | T1- M-35-1(FP) | -- | Seeds of  SPV-2217 & GS-23  *Azosprillium*  Atrazine | 6 kg  500 g  1 kg | 240  100  400  **740** | 03 | 2220 | Seed yield and economics | Sr.Scientist & Head, Scientist(Plant Pathology), Scientist(Soil Science) &  Scientist (Animal Science) |
| T2 – SPV-2217 | UAS,  Dharwad |
| T3 - GS-23 | UAS, Raichur |
| 5.2 | Groundnut | Low yield of local varieties | Assessment of Groundnut varieties | T1-TMV-2 (FP) | -- | Seeds of  KDG-128, K9 & GPBD-5  PSB  *Rhizobium* | 90 kg  0.5 kg  0.5 kg | 9000  100  100  **9200** | 03 | 27600 | Yield, pest incidence & Economics | Sr.Scientist & Head,  Programme Asst. (Soil Science),  Scientist(Plant Pathology) &  Scientist (Animal Science) |
| T2 – K-9 | ANGRAU, Hyderabad |
| T3 - G2-52/  GPBD-5 | UAS, Dharwad |
| T4 - KDG-128 | UAS, Raichur |
| 5.3 | Chickpea | Low yield of local varieties  and labour scarcity | Assessment of new chickpea varieties for yield and mechanical harvesting | T1- JG-11 (FP) | -- | Seeds of  GBM2, Nbeg47 & BGD-103  PSB  *Rhizobium* | 75 kg  1 kg  1 kg | 4500  200  200  **4900** | 03 | 14700 | Yield & Economics | Sr.Scientist & Head,  Programme Asst. (Soil Science) &  Scientist(Plant Pathology) |
| T2 – BGD 103 | UAS, Dharwad/  Raichur |
| T3 - GBM2 | UASR |
| T4 - Nbeg-47 | ANGRAU |
| 5.4 | Chilli | Low yield , lack of uniformity, poor quality and  higher incidence of pest and diseases | Assessment of varieties for yield and disease incidence in Chilli | T1 – Byadagi  (FP) | -- | Seeds of  G4 and  GPM-120-S-1  Vegetable special  Yellow &  Blue sticky traps | 500 g  500 g  3 kg  20 No. | 750  750  750  1000  **3250** | 03 | 9750 | Yield, quality, Pest and disease  incidence | Scientist (Horticulture), SMS (Plant Pathology) & Senior Scientist and Head |
| T2 - G-4 | UAS, Dharwad |
| T3 –  GPM -120-S-1 | UHS, Bagalkot |

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| 5.5 | Onion | Low yield , lack of uniformity, poor quality and  higher incidence of pest and diseases | Assessment of new high yielding varieties for Rabi in Onion | T1 - Bellary Red  (FP) | - | Seeds of  Arka Nikethan  Bhima Red/ Shakti  Vegetable special  Soil testing charges | 3 kg  3 kg  5kg | 6000  6000  1000  600  **13200** | 03 | 40800 | Yield, quality, Pest and disease  incidence | Scientist (Horticulture), SMS (Plant Pathology),  Scientist (Soil Science),  Scientist (Entomology) & Senior Scientist and Head |
| T2 – Arka Nikethan | IIHR, Bengaluru |
| T3 - Bhima Red | DOGR,  Rajgurunagar |
| 5.6 | Onion | Low yield , lack of uniformity, poor quality and  higher incidence of pest and diseases | Assessment of new high yielding varieties for Kharif in Onion | T1 - Bellary Red  (FP) | -- | Seeds of  Arka kalyan  Bhima Super  Vegetable special  Soil testing charges | 3 kg  3 kg  5 kg | 6000  6000  1000  600  **13200** | 03 | 40800 | Yield, quality, Pest and disease  incidence | Scientist (Horticulture), SMS (Plant Pathology),  Scientist (Soil Science),  Scientist (Entomology) & Senior Scientist and Head |
| T2 - Arka kalyan | IIHR,  Bangalore |
| T3 - Bhima Super | DOGR,  Rajgurunagar |
|  | Tomato | Low yield and higher incidence of diseases | **Assessment of new high yielding hybrids in tomato** | T1 – Private hybrids  (FP) |  | Seeds of  PTR 6  Arka Abhed  Vegetable Special  Soil testing charges | 100g  100g  3 kg | 3000  3000  600  600  7200 | 03 | 21600 | Yield , disease incidence and economics | Scientist (Horticulture), SMS (Plant Pathology),  Scientist (Soil Science),  Scientist (Entomology) & Senior Scientist and Head |
| T2 - PTR 6 | UAS, Raichur |
| T3 - Arka Abhed/  Arka Vishesh/  Arka Apeksha | IIHR, Bengaluru |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Okra** | Low yield and lack of uniform fruits | **Assessment of new high yielding hybrid in Okra** | T1 – Private hybrids  (FP) | -- | Seeds of  Arka Nikitha  CO BH3  Vegetable Special  Soil testing charges | 2.0 kg  2.0 kg  3.0 kg | 6000  6000  600  600  13200 | 03 | 39600 | Yield and economics | Scientist (Horticulture), SMS (Plant Pathology),  Scientist (Soil Science),  Scientist (Entomology) & Senior Scientist and Head |
| T2 - CO BH3 | TNAU, Coimbatore |
| T3 - Arka Nikitha | IIHR, Bengaluru |
|  | Chilli | Low yield and high cost of seeds | **Assessment of new high yielding hybrids in Chilli** | T1 – Private hybrids  (FP) |  | Seeds of  Arka Khyati  UASRCh42  Vegetable Special  Soil testing charges | 100g  100g  3.0 k | 000  4000  600  600  9200 | 03 | 27600 | Yield and economics | Scientist (Horticulture), SMS (Plant Pathology),  Scientist (Soil Science),  Scientist (Entomology) & Senior Scientist and Head |
| T2 - Arka Khyati | IIHR, Bengaluru |
| T3 – UASRCh-42 | UAS, Raichur |
| 5.7 | Fodder crop | Low yield and need for a very high yielding perennial forage | Assessment of new forage, Super napier for its productivity and forage quality | T1 -NB -21 (FP) | UAS, Dharwad | 1. Super napier stem cuttings 2. Lab charges for Proximate composition analysis of forages | 2000 cuttings  02 | 2000  3000 | 03  03 | 6000  9000  **15000** | Fodder yield,  proximate composition & milk production | Scientist (Animal science),  Senior Scientist and Head &  Scientist (Plant Pathology) |
| T2 - Co-3 | TNAU, Coimbatore |
| T3 - Super napier | **PJTSAU, Hyderabad** |
| 5.8 | Human Nutrition | Malnutrition among farm families, lack of quantification of food consumption data | Assessment of methods for nutritional adequacy in Agrobased farming system | T1 - 24 Hr Recall  method | --- | Karada scan machine | 01 | 15000 | 1 | 15000 | Nutritional status through BMI, BMR, fat percentage, W/H Ratio, Gomez classification | Scientist (Home Science),  Senior Scientist and Head &  Scientist (Animal science) |
| T2 - Food  Frequency  questionnaire | -- |

**6. Frontline demonstrations during 2020-21**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.No.** | **Category** | **Crop/ enterprise** | **Prioritized problem** | **Technology to be demonstrated** | **Name of variety** | **Name of hybrid** | **Source of technology** | **Name of critical input** | **Qty per demo (q)** | **Cost per demo (Rs.)** | **No. of demos** | **Total cost for the**  **demo (Rs.)** | **Parameters to be studied** | **Team members** |
| 6.1 | Cereals | Paddy (contd.) | Labour / water scarcity, high input usage,  high cost of production | Demonstration of drill sown paddy cultivation | BPT-5204 | -- | UAS, Raichur | Pendimethalin  Bispyribac sodium  Zinc sulphate  Iron Sulphate  *Azosprillum*  PSB  Soil analysis | 1.5 l  100 ml  10 kg  10 kg  200g  200 g  - | 750  750  650  650  40  40  200  **3080** | 10 | 30800 | Yield and economics | Sr.Scientist & Head, Scientist (Plant Pathology), Scientist (Entomology), &  Scientist (Animal Science) |
| Paddy  (Contd.) | Blast, sheath blight and bacterial blight incidence in transplanted rice ecosystem | Integrated management of major diseases in paddy | BPT -5204 | -- | UAS, Raichur /IIRR,  Hyderbad | *Pseudomonas fluorescens @* 5g/l  Tricyclazole 75 WP @ 2g/kg of seed  Trifloxystrobin 25% + tebuconazole (Nativo) @ 0.5 g/l  COC@ 3 g/l  Streptocycline@ 0.6g/l | 3 kg  50 g  100 g  750 g  200 g | 600  150  1500  350  300  **2900** | 10 | 29000 | Blast , sheath blight and bacterial blight incidence, yield and economics | Scientist (Plant Pathology), Scientist (Entomology),  Sr. Scientist & Head &  Scientist (Horticulture) |
| Paddy (Contd.) | BPH, leaf folder, blast and blight diseases causing major yield loss in paddy | Eco-friendly management of major pests and diseases in DSR | BPT -5204 | -- | UAS, Raichur | *Metarhizium anisopliae* @ 2g /l  Neem oil @ 3ml/l  *Lecanicillium lecani* @ 2g /l  *Beauveria bassiana* @ 2 g/l  *P. fluorescens*@ 5g /l | 2 kg  2 l  2 kg  2 kg  3 kg | 400  600  400  400  600  **2400** | 10 | 24000 | BPH, leaf folder, blast, sheath blight incidence, yield and economics | Scientist (Entomology), Scientist (Plant Pathology),  Sr. Scientist & Head &  Scientist (Horticulture) |
| Maize (Contd.) | Armyworm incidence | Integrated approaches for armyworm management in Maize | -- | Private  hybrid | UASR/ UAHS, Shivamogga / NBAIR, Bengaluru | Pheromone traps  Monocrotophos  Emamectin benzoate  @ 0.5 g/l  Chlorontriniliprole  EC @ 0.25 ml/l | 10 No.   500 ml  100 g  60 ml | 700  400  200  750  **2050** | 10 | 20500 | Armyworm incidence, yield and economics | Scientist (Entomology), Scientist (Plant Pathology),  Sr. Scientist & Head &  Scientist (Horticulture) |
|  |  | Rabi Jowar  (Contd.) | Moisture stress, low yield | Demonstration of new high yielding rabi sorghum variety (GS 23) | GS-23 | -- | UAS, Raichur | Seeds of GS 23  Azosprillium | 03 kg  200 g | 150  50  200 | 10 | 2000 | Growth and yield parameters, yield and economics | Sr. Scientist & Head, Scientist (Plant Pathology) & Scientist (Animal Science) |
| 6.2 | Millets | Foxtail millet (contd.) | Low yield due to use of local variety | Demonstration of new high yielding foxtail millet variety HN-46 | HN-46 | -- | UAS, Raichur | Seeds of  HN-46 Azosprillium | 02 kg  200 g | 150  50  **200** | 10 | 2000 | Seed yield,  Fodder yield  and economics | Scientist (Soil Science), Sr. Scientist & Head, Scientist (Home Science),  Scientist (Animal Science) &  Scientist (Plant Pathology), |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.3 | Oilseeds | Ground- nut  (contd.) | Severe incidence of stem rot and bud necrosis virus disease, leaf webber and lack of awareness on use of bio agents | IPDM in groundnut | TMV-2 | -- | UAS, Raichur | Mancozeb 50 % + Carbendazim 25 % WS *Trichoderma*  *P. fluorescens*  Ferrous sulphate  Hexaconazole 4%WP+ZinebWP 68%  Blue sticky traps *Lecanicillium lecani* | 75 g  1 kg  2 kg  10 kg  750g  8 No  2kg | 400  200  400  340  350  320  500  **2510** | 10 | 25100 | Stem rot  Bud necrosis, leaf webber incidence and  Yield | Scientist (Plant Pathology),  Scientist (Entomology) Scientist ( Home Science) &  Sr.Scientist & Head |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.4 | Pulses | Bengal gram (contd.) | Wilt complex, Rust and pod borer | IPDM in Bengal gram | BGD-103 | -- | UAS, Raichur | Rhizobium  PSB  Trichoderma  Hexaconazole 5 EC  *P. fluorescens*  @ 6g/l  Spinosad | 500 g  500 g  1 kg  500 ml  2 kg  100 ml | 100  100  200  400  400  1200  **2400** | 10 | 24000 | Wilt & rust severity, pod borer incidence and yield | Scientist (Plant Pathology), Scientist (Entomology),  Sr.Scientist & Head &  Scientist (Horticulture) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.5 | Commercial crops | Bt. Cotton (contd.) | Pink boll worm and anthracnose disease incidence | Integrated approaches for PBW and anthracnose diseases in Bt. Cotton | -- | Private hybrid | UAS, Raichur | Pheromone traps  Lures  Profenophos 50 EC  Thiodicarb 75 WP  Lambdacyhalothrin 5EC  *P. fluorescencs*  Hexaconazole 5 EC | 10 No.  40 No.  500 ml  250 g  250 ml  2kg  1 l | 700  800  280  750  160  400  560  **3650** | 10 | 36500 | PBW incidence (Rosette flower and Boll damage), anthracnose,  yield and economics | Scientist (Entomology), Scientist (Plant Pathology),  Sr.Scientist & Head,  Scientist (Horticulture)  &  Scientist (Animal Science) |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6.6 | Horticultural crops | Tomato  (contd.) | Low yield , Micronutrient deficiency, Pinworm incidence | Integrated crop management in tomato | - | **Private hybrid** | -- | **Arka Vegetable Special**  **Yellow sticky trap**  **Borax**  **Pheromone traps**  **Lures**  **Chlorantraniliprole 18.5 SC** | **3 kg**  **10**  **2 kg**  **8 no**  **48 no**  **60 ml** | **600**  **500**  **100**  **600**  **500**  **800**  **3100** | 10 | 31000 | Pin worm incidence ,  yield & economics | Scientist (Horticulture), SMS (Plant Pathology),  Scientist (Entomology),  Scientist (Home Science)  & Senior Scientist and Head |
| Onion (contd.) | Low yield , Micronutrient deficiency, Thrips and purple blotch disease incidence | Integrated crop management in onion | **Bellary Red** | -- |  | **Arka Vegetable Special**  **Oxyflourafen**  **Fipronil 5 SC @ 1 ml/l**  **Difenconazole 25 EC @ 1 ml/l *Pseudomonas* *fluorescens***  **@ 5 g/l** | **5kg**  500ml  500ml  500ml  1 kg | **1000**  700  **800**  **700**  **200**  **3400** | 10 | 34000 | Yield, Economics ,Thrips and Purple blotch disease Incidence | Scientist (Horticulture), SMS (Plant Pathology),  Scientist (Entomology),  Scientist (Home Science)  & Senior Scientist and Head |
| Chilli  (contd.) | Wilt, powdery mildew, murda incidence causing more yield loss | Integrated crop management in chilli | Byadagi/ private hybrid | -- | UAS, Raichur/ Dharwad | *Trichoderma viridae*  Neem cake  *P. fluorescens*  Hexaconazole 5 % EC  Tebuconazole 25EC @ 1ml/ l  Yellow sticky traps  Blue sticky traps | 1.5 kg  50 kg  2 kg  1 l  100 ml  10 No.  10 No. | 300  1100  400  450  300  500  500  **3550** | 10 | 35500 | Wilt, powdery mildew, murda incidence, yield and economics | Scientist (Plant Pathology), Scientist (Entomology), Scientist (Horticulture) &  Sr.Scientist & Head, |
| Cucumber/ Cucurbits  (New) | Yellow mosaic virus disease and poor nutrient management | Integrated crop management in cucurbits | -- | Private hybrid | UHS, Bagalakote and IIHR, Bengaluru | Imidachloprid (Seed treatmen)  Dimethoate @ 2 ml/l  Yellow sticky traps  Vegetable special  *P. fluorescens*  *Metarhizium* | 20 ml  250 ml  8 No.  1 kg  1 kg  1 kg | 75  200  400  400  200  200  **1475** | 10 | 14750 | YMD incidence (%), yield and economics | Scientist (Plant Pathology), Scientist (Entomology), Scientist (Horticulture) &  Sr.Scientist& Head |
| Fig  (contd.) | Low yield due to rust disease, micro nutrients  deficiency and mite infestation | ICM in Fig | Bellary (RCR-1) | -- | UHS,  Bagalkot | *P. fluorescens*  Mancozeb 75WP@2g/l  Hexaconazole 5EC@1ml/l  Zinc sulphate  Magnesium sulphate  **Fenazaquin 2ml/lt** | 1 kg  1 kg  500 ml  10 kg  10 kg  500 ml | **200**  **360**  **500**  **350**  **350**  **560**  **2320** | 10 | 23200 | Yield, Economics ,Mites and Rust disease Incidence(%) | Scientist (Plant Pathology), Scientist (Entomology), Scientist (Horticulture) &  Sr.Scientist & Head, |
|  |  | **Cauliflower** (New) | Low yield , Indiscriminate use of chemical insecticides and lack of nutrient management | **ICM in Cauliflower** | -- | **Private hybrid** |  | **Vegetable special**  **Molybdenum**  **Neem pellets @ 3 g/l**  **Pongamia pellets @ 3 g/l**  **Neem oil @ 3 ml/l**  **Chlorantraniliprole 18.5 SC** | **5kg**  **2kg**  **1 kg**  **1 kg**  **1 l**  **60ml** | **1000**  **1000**  **500**  **500**  **400**  **750**  **4150** | 10 | **41500** | Yield, Economics and DBM incidence | Scientist (Horticulture),  Scientist (Plant Pathology)  Scientist (Entomology), &  Sr. Scientist & Head |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.7 | Livestock | Sheep  (contd.) | Worm load and poor growth in nomadic sheep | Strategic health care practices in grazing sheep flock from weaning till the age of maturity | Kenguri | - | KVAFSU, Bidar | Oxyclozanide 6% w/v + Levamisole 3% w/v  Liver stimulants  (At 3rd month)  Fenbendazole 1.5% + Praziquantel 0.5%  (At 6th month)  Triclabendazole 5% w/v + Ivermectin 0.1% w/v  (At 9th month | 500ml  500ml  500ml  250ml | 485  250  455  465 | 10  10  10  10 | 4850  2500  4550  4650  **16550** | Weight of lambs at 3 months interval | Scientist (Animal Science) &  Scientist (Plant Pathology) |
| Fodder crop | **Non availability of quality forages lead to poor**  **production in animals and**  **a reduced income among**  **livestock owners** | **Demonstration of perennial forage types for efficient ram lamb fattening under**  **stall fed conditions** | **CoFS-31**  **Hedge lucerne** |  | **TANUVAS,**  **Chennai** | **CoFS-31**  **Hedge lucerne** | **1 kg**  **500 g** | **450**  **250** | **15**  **15** | **6750**  **3750**  **10500** | Fodder yield and milk yield (L/d)  Fat and SNF (% | Scientist (Animal Science),  Scientist (Plant Pathology) &  Scientist (Soil Science ) |
|  | **Poor nutrition and inadequate management practices**  **during growth phase of calf**  **result in poor body growth**  **and delayed maturity** | **Good practices of calf rearing to achieve optimum growth and early maturity** | **Type of CB female calves** | -- | **Source: KVAFSU,**  **Bidar** |  |  |  |  |  |  | Scientist (Animal Science),  Scientist (Home Science) &  Scientist (Soil Science ) |
|  |  | Fodder crop (New) | Non availability of quality forages lead to poor production in animals and reduced income among livestock owners | Demonstration of perennial forage types among dairy farmers | CoFS-31  Hedge lucerne  Sesbania | - | TANUVAS  Chennai | CoFS-31  Hedge Lucerne  Sesbania | 1 kg  500g  150g | 450  250  150 | 15 | 6750  3750  2250  **12750** | Fodder yield  Milk yield (L/day)  Body wt gain (Kg) at three months interval | Scientist (Animal Science),  Sr.Scientist & Head &  Scientist (Plant Pathology) |
| 6.8 | Fisheries | -- | -- | -- | -- | - | -- | -- | -- | -- | -- | -- | -- | -- |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6.9 | Others  (Home Science) | Functional Cloth | Harmful health hazards viz., cuts and wounds, itching, irritation to mainly to hands as well to other parts of the body during harvesting, threshing and winnowing activities | Functional clothing for agricultural activities. | -- | -- | AICRP-HSc (CT)  UAS, Dharwad | Functional clothing kit | 01 | 300 | 40 | 12000 | Suitability, comfortability, functionality and acceptability | Scientist (Home Science),  Sr. Scientist & Head & Scientist (Plant Pathology) |
| Nutri Gardens | Malnutrition, lack of awareness about nutritious foods. | NUTRI-Gardens  *AICRP model* ***-****S*cientific nutrition garden | - | - | UAS,  Bengaluru | Vegetable seeds  Kit  Seedlings-curry leaf, amla, lemon, drumstick, papaya, guava & sapota  Neem soap  Neem cake  Vegetable Special | 4 kits  25 plants  2 kg  20 kg  2 kg | 500  1250  500  700  300  **3250** | 10 | 32500 | Total production of vegetable, Daily utilization of Fruits & Vegetables in diet, Amount Saved over the period, Preference, Food adequacy, Nutritional anthropometric measures, BMI, B C ratio | Scientist (Home Science),  Sr.Scientist & Head & Scientist (Horticulture) |
|  |  | EDP | Lack of Knowledge on value addition | Home-scale enterprise with Banana and its value added products | G9,Sakkare bale, Sughandhi | - | NRCB Trichy | Ingredients and preservatives required for demonstration  Weighing scale  Packaging materials  Sealing machine (1 nos) |  | 7500  6500  3000  5000  **22500** | 1 SHG/ FPO | 22500 | Cost of production  Consumer preference  Marketability | Scientist(Home science),Scientist (Agronomy) Scientist(Pathology), Scientist(Entomology) |

**7. Training for farmers/ farm women during 2020-21**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.No.** | **Thematic area and the crop/ enterprise** | **Crop / Enterprise** | **Related field intervention (OFT/FLD)** | **Training title** | **No. of courses** | **Expected No. of participants** | **Names of the team members involved** |
| 7.1 | Crop production | Paddy | OFT / FLD | 1. Paddy based cropping system 2. DSR method of cultivation | 02 | 100 | Sr.Scientist & Head, Scientist (Entomology), Scientist (Pathology)  Scientist (Animal Science) |
| Rabi sorghum | OFT | Rabi sorghum production technologies | 02 | 60 | Sr.Scientist& Head, Scientist (Entomology) & Scientist (Pathology) |
| Groundnut | OFT | Production technologies for Groundnut | 02 | 80 | Sr.Scientist& Head,  Scientist (Entomology) &  Scientist(Plant Pathology) |
| Millets | FLD | Importance of millets and their production technologies | 02 | 90 | Sr.Scientist& Head,  Scientist (Plant Pathology) &  Scientist (Entomology) |
| 7.2 | Horticulture production | Chilli | OFT | Integrated crop management practices in chilli | 02 | 90 | Scientist (Horticulture),  SMS (Plant Pathology) &Senior Scientist and Head |
| Onion | OFT | Integrated crop management practices in onion | 02 | 90 | Scientist (Horticulture),  SMS (Plant Pathology) &Senior Scientist and Head |
| Tomato | FLD | Integrated crop management practices in Tomato | 02 | 90 | Scientist (Horticulture),  SMS (Plant Pathology) &Senior Scientist and Head |
| Fig | FLD | Integrated crop management practices in Fig | 02 | 90 | Scientist (Horticulture),  SMS (Plant Pathology) &Senior Scientist and Head |
| Guava | FLD | Integrated crop management practices in Guava | 02 | 90 | Scientist (Horticulture),  SMS (Plant Pathology) &Senior Scientist and Head |
|  |  | Cucurbits | FLD | Integrated crop management practices in Cucurbits | 02 | 60 | Scientist (Plant Pathology), Scientist(Entomology), Scientist (Horticulture),  &Senior Scientist and Head |
| 7.3 | Livestock production | Dairy | FLD | Rumen bypasses fat and its advantages over oil seed cakes to enhance milk fat percentage. | 01 | 28 | Scientist (Animal science),  Senior Scientist and Head,  Scientist(Plant pathology)&  Scientist (Home Science) |
| OFT | Super napier fodder production | 02 | 30 | Scientist (Animal science),  Senior Scientist and Head,  Scientist(Plant pathology)&  Scientist (Home Science) |
| Sheep and goat | FLD | Strategic health care practices for better productivity in small ruminants | 02 | 25 | Scientist (Animal science),  Senior Scientist and Head,  Scientist(Plant pathology)&  Scientist (Home Science) |
|  | FLD | Demonstration of “Progesterone Impregnated Nano Fibers” for induction of estrus in cows and buffaloes. | 01 | 30 | Scientist (Animal science),  Senior Scientist and Head,  Scientist(Plant pathology)&  Scientist (Home Science) |
| Forage production | FLD | Forage production and their usage in livestock production | 02 | 30 | Scientist (Animal science),  Senior Scientist and Head,  Scientist(Plant pathology)&  Scientist (Home Science) |
| 7.4 | Home Science | Functional Cloth | FLD | Functional clothing for agricultural activities. | 2 | 120 | Scientist (Home science),  Scientist (Horticulture),  Senior Scientist and Head&  Scientist(Plant pathology) |
| Nutri Gardens | FLD | NUTRI-Gardens | 2 | 100 | Scientist (Home science),  Senior Scientist and Head&  Scientist (Plant pathology) |
| 7.5 | Plant protection | Onion | OFT | IPDM in onion | 1 | 55 | SMS (Plant Pathology),  Senior Scientist and Head,  Scientist (Horticulture) &  Scientist (Home Science) |
| Chilli | FLD | IPDM in chilli | 2 | 110 | SMS (Plant Pathology),  Senior Scientist and Head,  Scientist (Horticulture) &  Scientist (Home Science) |
| Groundnut | FLD | Role of bio agents on soil borne disease management | 2 | 95 | SMS (Plant Pathology),  Senior Scientist and Head,  Scientist (Horticulture) &  Scientist (Animal Science) |
| Paddy | FLD | IPM in paddy | 2 | 100 | SMS (Plant Pathology),  Senior Scientist and Head &  Scientist (Horticulture) |
| Cotton | FLD | Diseases of cotton and their management  IPM on PBW management | 1 | 80 | SMS (Plant Pathology),  Senior Scientist and Head,  Scientist (Horticulture) &  Scientist (Animal Science) |
| Bengalgram | FLD | Role of bioagents on soil borne pathogens | 2 | 120 | SMS (Plant Pathology),  Senior Scientist and Head,  Scientist (Horticulture) &  Scientist (Animal Science) |
| Bioagent | -- | Method demonstration of soil enrichment of Bio agents | 2 | 100 | SMS (Plant Pathology),  Senior Scientist and Head,  Scientist (Horticulture)&  Scientist (Animal Science) |
| 7.6 | Production of inputs at site | Vermicompost production | -- | Production practices of vermicompst | 02 | 150 | SMS (Plant Pathology),  Senior Scientist and Head,  Scientist (Horticulture),  Scientist (Animal Science)&  Scientist (Home Science) |
| 7.7 | Soil health and fertility | Soil fertility management | **--** | 1. Importance of soil health, ways  and means of improving soil  fertility  2. Integrated nutrient management | 02 | 75 | Sr.Scientist & Head, Scientist (Entomology) &  Scientist (Plant Pathology) |
| 7.8 | PHT and value addition | Millets | -- | Value addition in millets | 02 | 75 | Scientist (Home Science),  Scientist(Horticulture),  Sr.Scientist & Head &  Scientist (Plant Pathology) |
| Fig | -- | Value addition in Fig | 02 | 75 |
| 7.9 | Capacity building/  group dynamics | Food crops | Skill development | Agriculture based income generating activities for SHGs | 02 | 100 | Scientist (Home Science),  Sr.Scientist & Head,  Scientist (Animal science)&  Scientist (Horticulture) |
| 7.10 | Farm mechanization | -- | -- | -- | -- | -- | -- |
|  |  |  |  |  |  |  |  |
| 7.11 | Fisheries production technologies | -- | -- | -- | -- | -- | -- |
| 7.12 | Mushroom production | Milky and oyster Mushroom | Skill development | Production techniques of mushrooms and their value addition | 03 | 150 | Scientist (Home Science),  Sr.Scientist & Head,  Scientist (Animal science)&  Scientist (Horticulture) |
| 7.13 | Agro forestry | -- | -- | -- | -- | -- | -- |
| 7.14 | Bee keeping | Bee keeping | **--** | Training on Bee keeping | 01 | 50 | SMS (Plant Pathology),  Scientist (Horticulture),  Senior Scientist and Head,  Scientist (Animal Science) &  Scientist (Home Science) |
| 7.15 | Sericulture | -- | -- | -- | -- | -- | -- |
| 7.16 | Others, pl. specify | Organic | -- | Organic farming | 01 | 50 | Sr.Scientist & Head  Scientist (Plant Pathology  Scientist (Animal Science) |
| IFS | -- | Integrated Farming system | 01 | 50 |

**8. Training for rural youth during 2020-21**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | Paddy | OFT / FLD | 1. Paddy based cropping system 2. DSR method of cultivation | 02 | 80 | Sr.Scientist & Head,  Scientist (Entomology) &  Scientist (pathology) |
| Rabi sorghum | OFT | Rabi sorghum production technologies | 01 | 35 | Sr.Scientist & Head, Scientist(Entomology) &  Scientist (Pathology) |
| Groundnut | OFT | Production technologies for Groundnut | 01 | 40 | Sr.Scientist & Head,  Scientist (Entomology) &  Scientist (Plant Pathology) |
| Millets | FLD | Importance of millets and their production technologies | 02 | 90 | Sr.Scientist & Head,  Scientist (Plant Pathology) &  Scientist (Entomology) |
| 8.2 | Horticulture production | Chilli | OFT | Integrated crop management practices in chilli | 02 | 90 | Scientist (Horticulture),  Scientist (Plant Pathology) & Senior Scientist and Head |
| Onion | OFT | Integrated crop management practices in onion | 02 | 90 | Scientist (Horticulture),  Scientist (Plant Pathology) &Senior Scientist and Head |
| Tomato | FLD | Integrated crop management practices in Tomato | 02 | 90 | Scientist (Horticulture),  Scientist (Plant Pathology) &Senior Scientist and Head |
| Fig | FLD | Integrated crop management practices in Fig | 02 | 90 | Scientist (Horticulture),  Scientist (Plant Pathology) &Senior Scientist and Head |
| Guava | FLD | Integrated crop management practices in Guava | 02 | 90 | Scientist (Horticulture),  Scientist (Plant Pathology) &Senior Scientist and Head |
| 8.3 | Livestock production | Sheep | Skill development | Stall fed sheep rearing | 02 | 30 | Scientist (Animal science),  Senior Scientist and Head,  Scientist (Plant pathology)&  Scientist (Home Science) |
| Dairy | Skill development | Scientific dairying | 02 | 30 | Scientist (Animal science),  Senior Scientist and Head,  Scientist (Plant pathology)&  Scientist (Home Science) |
| 8.4 | Home Science | Fig | EDP | Value addition to Fig | 03 | 150 | Scientist (Home science),  Scientist (Horticulture),  Senior Scientist and Head & Scientist (Plant pathology) |
| 8.5 | Plant protection | Cotton | Skill development | Use of pheromone traps for PBW management | 01 | 25 | Scientist (Plant Pathology),  Scientist (Horticulture),  Senior Scientist and Head &  Scientist (Animal Science) |
| Chilli | Skill development | Use of sticky traps in chilli for pests and disease management | 01 | 20 |
| Paddy | Skill development | Use of Bio agents in pests and disease management in paddy | 01 | 35 |
| 8.6 | Production of inputs at site | Vermicompost | Skill development | Vermicompost production technologies | 01 | 35 |
| 8.7 | Soil health and fertility | Soil sampling | -- | Importance and method of soil sampling | 01 | 40 | Senior Scientist and Head  Scientist (Entomology)  Scientist (Pathology)  Scientist (Animal Science) |
|  |  |  |  |  |  |  |  |
| 8.8 | PHT and value addition | Millets and fruits | Skill development | Licensing, Labeling and packaging techniques to the value added products | 02 | 100 | Scientist (Home science),  Scientist (Horticulture),  Senior Scientist and Head & Scientist (Plant pathology) |
|  |  |  |  |  |  |  |  |
| 8.9 | Capacity building/ group dynamics | -- | -- | -- | -- | -- | -- |
|  |  |  |  |  |  |  |  |
| 8.10 | Farm mechanization | -- | -- | -- | -- | -- | -- |
|  |  |  |  |  |  |  |  |
| 8.11 | Fisheries production technologies | -- | -- | -- | -- | -- | -- |
|  |  |  |  |  |  |  |  |
| 8.12 | Mushroom production | Mushroom production | Skill development | Mushroom production technologies | 01 | 60 | Scientist (Home science),  Scientist (Horticulture),  Senior Scientist and Head & Scientist (Plant pathology) |
|  |  |  |  |  |  |  |  |
| 8.13 | Agro forestry | -- | -- | -- | -- | -- | -- |
|  |  |  |  |  |  |  |  |
| 8.14 | Bee keeping | -- | -- | -- | -- | -- | -- |
|  |  |  |  |  |  |  |  |
| 8.15 | Sericulture | -- | -- | -- | -- | -- | -- |
|  |  |  |  |  |  |  |  |
| 8.16 | Others, pl. specify |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

### 9. Training for extension personnel during 2020-21

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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 | DSR method of cultivation | 02 | 100 | Senior Scientist and Head  and all scientists |
| Integrated Farming system | 02 | 100 |
|  |  |  |  |  |  |
| 9.2 | Home Science | Nutrition during pregnancy and lactation | 02 | 100 | Scientist (Home Science) &  Scientist (Animal science) |
| Food safety and hygiene for food handlers | 01 | 50 | Scientist (Home Science)  Scientist (Animal science) |
|  |  | Importance of groundnut chikki in improving the nutritional status of the preschool children | 01 | 50 | Scientist (Home Science)  Scientist (Animal science) |
|  |  |  |  |  |  |
| 9.3 | Capacity building and group dynamics | **--** | **--** | **--** | **--** |
|  |  |  |  |  |  |
| 9.4 | Horticulture | Recent production technologies in horticultural crops | 02 | 100 | Scientist (Horticulture) |
|  |  |  |  |  |  |
| 9.5 | Livestock production and management | Super napier production and usage | 02 | 30 | Scientist (Animal Science) |
| Hydroponic production and its usage in livestock production | 02 | 30 | Scientist (Animal Science) |
|  |  | Demonstration of “Progesterone Impregnated Nano Fibers” for induction of estrus in cows and buffaloes. | 01 | 30 | Scientist (Animal Science) |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 9.6 | Plant protection | Integrated pests and disease management in Paddy | 04 | 250 | Scientist (Plant Pathology),  Scientist (Entomology),  Scientist (Horticulture),  Scientist (Entomology)  Senior Scientist and Head  Scientist (Pathology) &  Agriculture Department official and field facilitators |
| Role of pheromone trap in pests management in agriculture crops | 02 | 150 |
| Bio agents and their usage in soil borne disease management | 03 | 100 |
| IPM in chilli | 03 | 100 |
| Integrated pest and disease management in cucurbits | 02 | 80 |
| Integrated pest and disease management in guava | 02 | 80 |
|  |  |  |  |  |  |
| 9.7 | Farm mechanization | **--** | **--** | **--** | **--** |
|  |  |  |  |  |  |
| 9.8 | PHT and value addition | **--** | **--** | **--** | **--** |
|  |  |  |  |  |  |
| 9.9 | Production of inputs at site | Vermicompost production | 01 | 70 | Scientist (Plant Pathology),  Scientist (Horticulture),  Senior Scientist and Head,  Scientist (Animal Science) &  Agriculture Department official and field facilitators |
| 9.10 | Sericulture | **--** | **--** | **--** | **--** |
|  |  |  |  |  |  |
| 9.11 | Fisheries | **--** | **--** | **--** | **--** |
|  |  |  |  |  |  |
| 9.12 | Other, pl. specify | **--** | **--** | **--** | **--** |
|  |  |  |  |  |  |

## 10.Vocational trainings during 2020-21

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | -- | -- | -- | -- | -- | -- |
|  |  |  |  |  |  |  |  |
| 10.5 | Livestock production and management | -- | -- | -- | -- | -- | -- |
|  |  |  |  |  |  |  |  |
| 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 | -- | -- | -- | -- | -- | -- |
| 10.12 | Other, pl. specify | -- | -- | -- | -- | -- | -- |

## 11. Sponsored trainings during 2020-21

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | -- | -- | -- | -- | -- | -- |
|  |  |  |  |  |  |  |  |
| 11.2 | Home Science | Nutrition during pregnancy and lactation | 02 | 01 | 100 | Health department and women and child welfare department | Scientist (Home Science)  Scientist (Animal science) |
|  |  |  |  |  |  |  |  |
| 11.3 | Capacity building and group Dynamics | -- | -- | -- | -- | -- | -- |
|  |  |  |  |  |  |  |  |
| 11.4 | Horticulture |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 11.5 | Livestock production and management | Stall fed sheep and goat rearing | 02 | 1 | 60 | Dept of AH VS | Scientist (Animal science)  Senior Scientist & Head |
| 11.6 | Plant protection | Safe use of pesticides | 1 | 1 | 50 | Dupont Pvt Ltd/ SPIC Pvt ltd | Scientist ( Entomology)  Scientist (Plant Pathology),  Scientist (Horticulture) &  Senior Scientist and Head |
|  |  |  |  |  |  |  |  |
| 11.7 | Farm mechanization | -- | -- | -- | -- | -- | -- |
|  |  |  |  |  |  |  |  |
| 11.8 | PHT and value addition | Fruits and vegetable preservation | 2 | 1 | 100 | State Dept.of Horticulture | Scientist (Home Science),  Scientist (Horticulture) &  Senior Scientist and Head |
|  |  |  |  |  |  |  |  |
| 11.9 | Production of inputs at site | Vermicompost | 1 | 1 | 75 | Agriculture and Horticulture Department, Ballari | Scientist (Plant Pathology),  Scientist (Horticulture) &  Senior Scientist and Head |
|  |  |  |  |  |  |  |  |
| 11.10 | Sericulture | -- | -- | -- | -- | -- | -- |
|  |  |  |  |  |  |  |  |
| 11.11 | Fisheries | -- | -- | -- | -- | -- | -- |
|  |  |  |  |  |  |  |  |
| 11.12 | Others, pl. specify | -- | -- | -- | -- | -- | -- |

## 12. Extension activities during 2020-21

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.No.** | **Extension activity** | **No. of activities** | **Targeted number of participants** | **Names of the team members involved** |
| 12.1 | Advisory services | 1200 | 1200 | Senior Scientist and Head and all Scientist of ICAR-KVK, Hagari |
| 12.2 | Diagnostic visits | 60 | 250 |
| 12.3 | Field days | 06 | 800 |
| 12.4 | Group discussions | 15 | 450 |
| 12.5 | Kisangosthies | 04 | 110 |
| 12.6 | Film shows | 10 | 350 |
| 12.7 | Self -Help Groups (SHGs) meetings | 12 | 240 |
| 12.8 | KisanMelas | 04 | 5000 |
| 12.9 | Exhibitions | 02 | 300 |
| 12.10 | Scientists' visit to farmers fields | 120 | 320 |
| 12.11 | Plant/soil health/animal health camps | 05 | 500 |
| 12.12 | Farm science club meetings | - | -- |
| 12.13 | Ex-trainees sammelans (Meetings) | - | -- |
| 12.14 | Farmers' seminars/workshops | 03 | 100 |
| 12.15 | Method demonstrations | 20 | 600 |
| 12.16 | Celebration of important days | 05 | 400 |
| 12.17 | Special day celebrations | 10 | 1000 |
| 12.18 | Exposure visits | 03 | 100 |
| 12.19 | Technology week celebration | 03 | 150 |
| 12.20 | Farmers Field School (FFS) | - | -- |
| 12.21 | Farm innovators meet | 02 | 60 |
| 12.22 | Awareness programmes | 10 | 370 |
| 12.23 | Pre-kharif campaign | 01 | 100 |
| 12.24 | Pre-rabi/summer campaign | 01 | 100 |
| 12.25 | Others, pl. specify | -- | -- |  |

## 13. Activities proposed as knowledge and resource centre during 2020-21

**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 | Dryland crops / soil and water conservation measures | 10 ha | -- | Senior Scientist & Head,  Scientist (Plant Pathology) &  Programme Assistant (Soil Science) |
| 13.1.2 | Demonstration units | Millet processing unit | -- | 01 unit | Scientist (Home Science) |
| Vermicompost production unit | 10 gunta | -- | Scientist (Entomology) |
| Fodder crops | 04 guntas | -- | Scientist (Animal Science) |
| 13.1.3 | Lab analytical services | Soil and water sample analysis | -- | -- | -- |
| 13.1.4 | Technology week | Technology for livestock disease prevention | -- | -- | Scientist (Animal Science)  Senior Scientist & Head |
| 13.1.5 | Others, Pl. specify | -- | -- | -- | -- |

**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 2020-21 (q)** | **Number planned to be produced during 2020-21** | **Names of the team members involved** |
| 13.2.1 | Seeds | -- | Bengalgram (BGD 103) | 120 | 13 ha | Senior Scientist & Head& Scientist (Plant Pathology) |
| Safflower (A-2) | 30 | 03 ha |
| Fodder seeds (CoFS-31 & Sesbania) | 1.0 | 0.4 ha | Scientist (Animal Science) |
| 13.2.2 | Planting material | -- | -- | -- | -- | -- |
| 13.2.3 | Bio-products | -- | Vermicompsot | 50 | 10 guntas | Scientist (Entomology)  Senior Scientist & Head |
| 13.2.4 | Livestock strains | -- | -- | -- | -- | -- |
| 13.2.5 | Fish fingerlings | -- | -- | -- | -- | -- |
| 13.2.6 | Any other, pl specify | -- | -- | -- | -- | -- |

**13.3 Technological information**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No** | **Category** | **Technological capsules/lectures/number** | **Names of the team members involved** |
| 13.3.1 | Technology backstopping to line departments |  |  |
|  | 1. Agriculture | DSR, PBW management in Cotton, Fall army worm management in maize, IPDM in chilli | Senior Scientist and Head and all Scientist of ICAR-KVK, Hagari |
|  | 1. Horticulture | Dry land horticulture crops and their production technologies |
|  | 1. Animal Husbandry | Production of new forage, hydroponics fodders, stall fed sheep farming |
|  | 1. Fisheries | -- |
|  | 1. Agricultural Engineering | -- |
|  | 1. Sericulture | -- |
|  | 1. Others, pl. specify | Value addition in millets / fig / mushroom |
| 13.3.2 | Literature/publication | 15 |
| 13.3.3 | Electronic media | 10 |
| 13.3.4 | Kisan mobile advisory services | 50 |
| 13.3.5 | Information on centre/state sector schemes and service providers in the district (Data may be collected from different agencies). | 05 |

## 14. Additional activities planned during 2020-21

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl.No.** | **Name of the agency / scheme** | **Name of activity** | **Technical programme with quantification** | **Financial outlay (Rs.)** | **Names of the team members involved** |
| -- | --- | -- | -- | -- | -- |

**15. Revolving fund**

**15.1 Financial status of revolving fund**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Opening balance as on 01.04.2019**  **(Rs.in Lakh)** | **Expenditure incurred during 2019-20**  **(Rs.in Lakh)** | **Receipts during**  **2019-20**  **(Rs.in Lakh)** | **Closing balance as on 31.03.2020**  **(Rs.in Lakh)** | **Expected closing balance by 31.03.2020 (Including value of material in stock/ likely to be produced) ( Rs. In Lakh )** |
| 10.628 | 3.014 | 1.925 | 9.537 | 17.87 |

**15.2 Plan of activities under revolving fund**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.No.** | **Proposed activities** | **Expected output (seed)** | **Anticipated income (Rs.)** | **Names of the team members involved** |
| 1 | Seed production of bengalgram, safflower  Fodder seeds (CoFS-31 &Sesbania) | 120 q Bengalgram  30 q Safflower  1.0 q CoFS-31 &Sesbania | 8,34,000 | Senior Scientist and Head,  Scientist (Plant Pathology) &  Scientist (Animal Science) |

## 16. Activities of soil, water and plant testing laboratory during 2020-21

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.No.** | **Type of samples** | **No. of samples to be analyzed** | **Names of the team members involved** |
| 16.1 | Soil test using analytical lab | 250 | Programme Assistant (Soil science) &  Senior Scientist and Head |
| 16.2 | Soil test using mobile analysis kit | **--** |
| 16.3 | Water | 150 |
| 16.4 | Plant | **--** |
| 16.5 | Others, pl. specify | **--** |

## 17. E-linkage during 2020-21

|  |  |  |  |
| --- | --- | --- | --- |
| **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 | Will be updated monthly  (FLD, OFT, soil and water test reports, trainings and extension activities) | -- |
| 17.3 | Any other (Please specify) | -- | -- |

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

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

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

|  |  |  |
| --- | --- | --- |
| **Thematic area** | **Title of the FFS** | **Budget proposed in Rs.** |
| -- | -- | -- |

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

|  |  |  |
| --- | --- | --- |
| **Description of model(s)** | **No. of models/units** | **Budget proposed in Rs.** |
| -- | -- | -- |

**21.Abstract of OFTs and FLDs proposed and budget required**

|  |  |  |
| --- | --- | --- |
| **Particulars** | **No.of OFTs / FLDS proposed** | **Budget Required**  **(Rupees in Lakhs)** |
| OFTs | 04 | 0.83650 |
| FLDs | 20 | 4.50575 |
| **Total** | **24** | **5.34225** |

**Utilization of KVK funds during the year 2019-20 (Rs. in lakh)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Particulars** | **Sanctioned** | **Released** | **Expenditure** |
| **A. Recurring Contingencies** | | | | |
| 1 | **Pay & Allowances** | 152.00 | 152.00 | 153.84 |
| 2 | **Traveling allowances** | 1.25 | 1.25 | 1.57 |
| 3 | **Contingencies** | | | |
| *A* | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 1.50 | 1.50 | 1.48 |
| *B* | POL, repair of vehicles, tractor and equipments | 2.00 | 2.00 | 1.66 |
| *C* | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained) | 0.45 | 0.45 | 0.11 |
| *D* | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | 0.15 | 0.15 | 0.034 |
| *E* | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | 2.48 | 2.48 | 1.46 |
| *F* | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | 0.40 | 0.40 | 0.25 |
| *G* | Training of extension functionaries | 0.10 | 0.10 | -- |
| *H* | Extension Activities | 0.35 | 0.35 | 0.18 |
| *I* | EDP (2 Nos.) / Innovative activities | 0.20 | 0.20 | 0.049 |
| *J* | Soil & water testing & issue of soil health cards | 0.25 | 0.25 | 0.199 |
| *K* | Maintenance of buildings | -- | -- | -- |
| *L* | Nutrigardens | 0.25 | 0.25 | 0.09 |
| *M* | Library | 0.05 | 0.05 | -- |
| **TOTAL (A)** | | **161.43** | **161.43** |  |
| **B. Non-Recurring Contingencies** | |  |  |  |
| 1 | **Works** | - | - | - |
| 2 | **Equipments including SWTL & Furniture** | - | - | - |
| 3 | **Vehicle** (Four wheeler/Two wheeler, please specify) | - | - | - |
| 4 | **Library** (Purchase of assets like books & journals) | - | - | - |
| **TOTAL (B)** | | - | - | - |
| **C. REVOLVING FUND** | | - | - | - |
| **GRAND TOTAL (A+B+C)** | | **161.43** | **161.43** | **160.91** |

**22.Details of Budget Estimate based on proposed action plan during the year 2020-21**

|  |  |  |
| --- | --- | --- |
| **Sl.No.** | **Particulars** | **BE 2020-21 proposed (Rs.)** |
| **22.1** | **(A). REVENUE (Recurring Contingencies)** |  |
| 21.1.1 | **Pay & Allowances** | 16200000 |
| 22.1.2 | **Traveling allowances** | 150000 |
| 22.1.3 | **Contingencies** |  |
| 22.1.3.*a* | *Stationery, telephone, postage and other expenditure on office running, publication of Newsletter* | 250000 |
| 22.1.3.*b* | *POL, repair of vehicles, tractor and equipments* | 200000 |
| 22.1.3.*c* | *Food/refreshment for farmers / extension personnel @ Rs.150/person/day* | 100000 |
| 22.1.3.*d* | *Training material (need based materials and equipments for conducting the training)* | 50000 |
| 22.1.3.*e* | *Frontline demonstrations* | 450575 |
| 22.1.3.*f* | *On farm testing (OFTs)/Technology Assessment* | 83650 |
| 22.1.3.*g* | *Integrated Farming System (IFS) (Min. 5 Units)* | -- |
| 22.1.3.*h* | *Training of extension functionaries* | 50000 |
| 22.1.3.*i* | *Extension activities/services* | 50000 |
| 22.1.3.*j* | *Farmers' Field School* | -- |
| 22.1.3.*k* | *EDP (2 Nos.) / innovative activities* | 50000 |
| 22.1.3.*l* | *Soil &water testing & issue of soil health cards* | 25000 |
| 22.1.3.*m* | *Maintenance of building* | 50000 |
| 22.1.3.*n* | *Library (Purchase of Journals, Periodicals, News Papers& Magazines)* | 5000 |
| 22.1.3.o | *Others, pl. specify* | -- |
|  | **Total Recurring (A)** | **17714225** |
| **22.2** | **(B). CAPITAL (Non-Recurring Contingencies)** |  |
| 22.2.1 | **Equipments& Furniture** | -- |
| 22.2.2 | **Works** | -- |
| 22.2.3 | **Vehicle** | -- |
| 22.2.3.a | Four wheeler (replacement) | -- |
| 22.2.4 | **Library** | -- |
|  | **Total Non Recurring (B)** | -- |
|  | **Grand Total (A + B)** | **17714225** |

**:O:-**