# KRISHI VIGYAN KENDRA, BRAHMAVAR (UDUPI DISTRICT)

# ANNUAL REPORT- 2021

## (FOR THE PERIOD FROM 01 January, 2021 to 31 December, 2021)

**KVK Address with QR Code, web site, E-mail, Tel and Host Organization details**

# PART I – GENERALINFORMATION ABOUT THE KVK

**1.1. Name and address of KVK with phone, fax and e-mail**

| KVK Address | Telephone | | E mail | Web Address |
|---|---|---|---|---|
| | Office | Fax | | |
| Krishi Vigyan Kendra<br>Zonal Agricultural &<br>Horticultural Research Station,<br>Brahmavar | 0820-2563923 | 0820-2561011 | kvk.Udupi@icar.gov.in<br>kvkudupi@gmail.com<br>udupikvk@gmail.com | http://kvkud.uahs.edu.in |

**1.2.Name and address of host organization with phone, fax and e-mail**

| Address | Telephone | | E mail | Web Address |
|---|---|---|---|---|
| | Office | Fax | | |
| University of Agricultural and Horticultural Sciences, Shivamogga | Ph: 08182267001 | 08182298008 | vcuahss2014@gmail.com | http://www.uahs.in |

**1.3. Name of the Programme Coordinator with phone & mobile No.**

| Name | Telephone / Contact | | |
|---|---|---|---|
| | Residence | Mobile | Email |
| Dr. Dhananjaya B | 9448950250 | 9480838202 | kvkudupi@gmail.com<br>udupikvk@gmail.com |

**1.4. Year of sanction: 2001**

**1.5. Staff position as on 31 December 2021**

| Sl. No. | Sanctioned post | Name of the incumbent | Designation | M/ F | Discipline | Highest Qualification (for PC, SMS and Prog. Asstt.) | Pay Scale | Basic pay | Date of joining KVK | Permanent /Temporary | Category (SC/ST/ OBC/ Others) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Head/Senior Scientist | Dr. Dhananjaya B. | Senior Scientist & Head | M | Agril. Extn. | Ph.D | 68900-205500 | 172200 | 09.07.15 | Permanent | ST |
| 2 | Scientist/SMS | Dr. Chaitanya H.S. | Scientist | M | Horticulture | Ph.D | 68900-205500 | 84800 | 01.10.12 | Permanent | General |
| 3 | Scientist/SMS | Dr. N.E. Naveen | Scientist | M | Agronomy | Ph. D | 68900-205500 | 84800 | 01.10.13 | Permanent | IIIB |
| 4 | Scientist/SMS | Dr. R. Jayaprakash | Scientist | M | Soil Science | Ph.D | 68900-205500 | 75300 | 03.10.12 | Permanent | SC |
| 5 | Scientist/SMS | Mr Srinivas H. Hulkoti | Scientist | M | Fishery Science | MF. Sc | 68900-205500 | 75300 | 23.11.13 | Permanent | ST |
| 6 | Scientist/SMS | Vacant | | | Plant Protection | | | | | | |
| 7 | Scientist/SMS | Vacant | | | Home Science | | | | | | |
| 8 | Programme Assistant (Lab Tech.) | Vacant | | | | | | | | | |
| 9 | Programme Assistant (Computer) | Mrs Shailaja | Programme Assistant (Computer) | F | | MBA | 44900-142400 | 52000 | 24.01.11 | Permanent | III B |
| 10 | Programme Assistant/ Farm Manager | Mrs S.M. Vidyashree | Farm Manager | F | | M.Tech (Agril. Engineering) | 44900-142400 | 52000 | 09.07.11 | Permanent | SC |
| 11 | Assistant | Vacant | | | | | | | | | |
| 12 | Jr. Stenographer | Vacant | | | | | | | | | |
| 13 | Driver - 1 | Mr Shivaprasad B | Driver (Jeep) | M | | | 30350-58250 | 32600 | 28.03.12 | Permanent | SC |
| 14 | Driver - 2 | Mr Veeresh | Driver (Tractor) | M | | | 30350-58250 | 36000 | 19.11.08 | Permanent | IIA |
| 15 | SS-1 | Mr Razak H Walikar | Assistant Cook-cum-caretaker | M | | | 19950-37900 | 24600 | 23.10.08 | Permanent | II A |
| 16 | SS-2 | Vacant | | | | | | | | | |

**1.6. Total land with KVK (in ha):20 ha**

| S. No. | Item | Area (ha) |
|---|---|---|
| 1 | Under Buildings | 0.4 |
| 2. | Under Demonstration Units | 4.0 |
| 3. | Under Crops | 13.0 |
| 4. | Orchard/Agro-forestry | - |
| 5. | Others | 2.6 |

**1.7. Infrastructural Development:**

**A) Buildings**

| S. No. | Name of building | Source of funding | Stage | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Complete | | | Incomplete | | |
| | | | Completion Date | Plinth area (Sq.m) | Expenditure (Rs.) | Starting Date | Plinth area (Sq.m) | Status of construction |
| 1. | Administrative Building | ICAR | 10.10.2012 | 550 | 8500000 | | | |
| 2. | Farmers Hostel | ICAR | 17.04.2002 | 720 | 4653768 | | | |
| 3. | Staff Quarters | Not yet sanctioned | | | | | | |
| | 1 | | | | | | | |
| | 2 | | | | | | | |
| | 3 | | | | | | | |
| | 4 | | | | | | | |
| | 5 | | | | | | | |
| | 6 | | | | | | | |
| 4. | Demonstration Units | UAHS | | 7 acres | 3.5 lakhs | February 2018 | 7 acres | Completed |
| | 1 | | | | | | | |
| | 2 | | | | | | | |
| | 3 | | | | | | | |
| | 4 | | | | | | | |
| 5 | Fencing | | | | | | | |
| 6 | Rain Water harvesting system | Nil | | | | | | |
| 7 | Threshing floor | Nil | | | | | | |
| 8 | Farm godown | Nil | | | | | | |

**B) Vehicles**

| Type of vehicle | Year of purchase | Cost (Rs.) | Total kms. Run | Present status |
|---|---|---|---|---|
| Honda Activa | 04.06.2009 | 49915 | | Not working |
| TVS victor | 22.09.2004 | - | | Not working |
| Mahindra Bolero (SLE 2WD) | 09.06.2017 | 665564 | 80858 | Working |
| Tractor | 18.03.2002 | 268250 | | Not working |

**C) Lab equipment & AV aids**

| Name of the equipment | Year of purchase | Quantity (No.) | Cost (Rs.) | Present status |
|---|---|---|---|---|
| HP-22 CO-164 in all in one Desktop | 2021 | 01 | 48970 | Working |
| Dahua 2 Mega Pixel IP Camara | 2021 | 04 | 14400 | Working |
| CPP Plus Essl offline biometric | 2021 | 01 | 16000 | Working |
| Cannon LBP 2900 Laser jet printer | 2021 | 01 | 10500 | Working |
| Projector Stand with Screen | 2021 | 01 | 7000 | Working |
| Seagate 2TB External Hardrive | 2021 | 01 | 7000 | Working |
| PB Sealer Delta | 2021 | 01 | 3000 | Working |
| AWM-520VHL Mic with speaker | 2021 | 01 | 5500 | Working |
| Plain Glass | 2021 | 03 Nos | 7500 | Working |

**D) Farm equipment and implements**

| Name of the equipment/implement | Year of purchase | Quantity (No.) | Cost (Rs.) | Present status |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

**1.8. Details of SAC meeting organized**

| Date | Number of Participants | Salient Recommendations | Action taken | Remarks, if any |
|---|---|---|---|---|
| 28.01.2022 | 50 | Suggested to send messages through KVK times regarding meetings schedule well in advance so that it reaches out to everybody. | | |
| | | JDA Udupi continued to form a whatsapp group of all the taluk level officers & share information through it. | | |
| | | Regarding YVMV in Halu Bhendi proposed for experimental studies in the upcoming ZREP.<br>Standardization of Udupi Jasmine cuttings for propagation. | | |
| | | Regarding the Action taken report Director ATARI remarked about the lessening of report to 20 pages, highlighting the farmer's contribution in the KVK award report. | | |
| | | Try to get postal stamp & cover for Udupi Jasmine & Mattu gulla for next SAC meeting so that marketing opportunities expands. | | |
| | | Regarding Extension of shelf life of Mattugulla low cost proposal to be submitted. | | |
| | | - New varieties of paddy (Kaje Jaya, Sahyadri Panchamukhi) to be brought into the seed production chain.<br>- Increase the seed production to at least 500 q. | | |
| | | - Seed production activity to be taken up in farmer's participatory mode. | | |
| | | 3 good photos of Udupi Jasmine mattu gulla & Halu bhendi to be sent to Director ATARI. | | |

| Date | Number of Participants | Salient Recommendations | Action taken | Remarks, if any |
|---|---|---|---|---|
| | | - Propagation methods to be implemented for minor fruits. | | |
| | | - Budget is available for supporting in getting GI tags, postal stamps & covers which can be made use of. | | |
| | | Marketing channel should be provided through KVK for their live fish sale.<br>Suggestion by SS & H, DK - To inform the local village people the date of harvest well in advance for live fish sale. | | |
| | | Research for recognizing Male/Female plants in wild palm tree at an early stage because it could be recognized at a later stage which is waste of time.<br>CPCRI principal Scientist by molecular testing at nursery stage male & female plants could be recognized. | | |
| | | - By increasing the Murrel fish production farmer's income could be raised.<br>- Demand seen in for dry fish so try to increase the dry fish production. | | |
| | | Felt harvesting problem in pepper requires bush pepper plants.<br>- He was informed about the availability of bush pepper plants at KVK Brahmavar. | | |
| | | Informed about the support available for marine & ornamental fish farming where seeds & portable acquarium are provided especially to encourage beach side women farmers. | | |

| Date | Number of Participants | Salient Recommendations | Action taken | Remarks, if any |
|---|---|---|---|---|
| | | - Quality seeds & planting material to be provided by KVK.<br>- Value addition trainings can be provided. | | |
| | | - Encourage farmers to have minimum 3 crops.<br>- Provide good trainings to FPO's which includes storage techniques marketing freeze drying minimal processing. | | |
| | | - Identify innovative farmers & strengthen them.<br>- Documentation of KVK works should be improved. | | |

## PART II - DETAILS OF DISTRICT

2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

| S. No | Farming system/enterprise |
|---|---|
| 1. | Agriculture |
| 2. | Horticulture |
| 3. | Fisheries and Dairy Farming |

2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

| S. No | Agro-climatic Zone | Characteristics |
|---|---|---|
| 1. | Coastal zone-10 | Laterite soil, heavy rainfall of 4000 mm/annum, both hilly and plain land area |
| 2. | Agro ecological situation | Characteristics |

| S. No | Agro ecological situation | Characteristics |
|---|---|---|
| 1. | Coastal zone | Heavy rainfall, hot humid climatic condition |

2.3 Soil type/s

| S. No | Soil type | Characteristics | Area in ha |
|---|---|---|---|
| 1. | Laterite soil | Strongly acidic, light textured, low water holding soils with medium available nitrogen, high phosphorus and low potassium status | 3 lakh ha. |

2.4. Area, Production and Productivity of major crops cultivated in the district

| S. No | Crop | Area (ha) | Production (Metric tons) | Productivity (kg /ha) |
|---|---|---|---|---|
| 1 | Paddy | 49543 | 224290 | 3918 |
| 2 | Cashew | 19496 | 38999 | 2000 |
| 3 | Coconut | 17815 | 26.72 Lakh nuts | 15000 (nuts/ha) |
| 4 | Arecanut | 7847 | 13732 | 1750 |
| 5 | Blackgram | 3524 | 1676 | 475 |
| 6 | Banana | 1463 | 3016 | 2062 |
| 7 | Groundnut | 2050 | 4265 | 2256 |
| 8 | Vegetable crops | 1210 | 22304 | 18433 |
| 9 | Black pepper | 421 | 168.40 | 400 |
| 10 | Sesamum | 268 | 625 | 212 |

* Please provide latest data from authorized sources. Please quote the source

**2.5. Weather data**

| Month | Rainfall (mm) | Temperature $^{0}$ C | | Relative Humidity (%) | |
|---|---|---|---|---|---|
| | | Maximum | Minimum | RH-I | RH-II |
| January | 61.9 | 33.2 | 21.0 | 88.8 | 60.3 |
| February | 10.7 | 33.4 | 19.8 | 90.3 | 57.8 |
| March | 0 | 34.0 | 22.9 | 89.1 | 61.9 |
| April | 72.8 | 33.8 | 23.5 | 89.7 | 62.6 |
| May | 429.7 | 32.6 | 23.7 | 91.1 | 70.8 |
| June | 808.6 | 30.3 | 22.2 | 95.0 | 81.8 |
| July | 1122 | 29.4 | 22.7 | 95.8 | 86.0 |
| August | 617.7 | 29.7 | 22.4 | 95.9 | 84.2 |
| September | 521 | 30.3 | 22.9 | 95.7 | 81.5 |
| October | 468.6 | 31.2 | 23.4 | 92.8 | 75.1 |
| November | 233.6 | 31.9 | 22.4 | 93.1 | 72.6 |
| December | 21.2 | 32.6 | 21.0 | 91.9 | 59.5 |
| Total/Mean= | 4367.8 | 31.8 | 22.3 | 92.4 | 71.2 |

* Please provide latest data from authorized sources. Please quote the source

2.6.Production and productivity of livestock, Poultry, Fisheries etc. in the district

| Category | Population | Production | Productivity |
|---|---|---|---|
| **Cattle** | | | |
| *Crossbred* | 77344 | | |
| *Indigenous* | 238393 | | |
| **Buffalo** | 26610 | | |
| **Sheep** | | | |
| Crossbred | | | |
| *Indigenous* | 59 | | |
| **Goats** | 2732 | | |
| **Pigs** | | | |
| *Crossbred* | 314 | | |
| *Indigenous* | 776 | | |
| **Rabbits** | **186** | | |
| **Poultry** | 589412 | | |

| Category | Population | Production | Productivity |
|---|---|---|---|
| Hens | | | |
| *Desi* | | | |
| *Improved* | | | |
| Ducks | | | |
| Turkey and others | | | |
| **Category** | **Area** | **Production** | **Productivity** |
| Fish | | | |
| *Marine* | | 98550 | |
| *Inland* | | 1831 | |
| Prawn | | | |
| Scampi | | | |
| Shrimp | | 1831 | |

* Please provide latest data from authorized sources. Please quote the source

2.7 District profile maintained in the KVK has been **Updated** for 2021: Yes / No - Yes

2.8 Details of Operational area / Villages

| Sl.No. | Taluk | Name of the block | Name of the village | How long the village is covered under operational area of the KVK (specify the years) | Major crops & enterprises | Major problem identified | Identified Thrust Areas |
|---|---|---|---|---|---|---|---|
| 1 | Brahmavar | Brahmavar | Heggunje | 1 | Compost | Non availability of Suitable aerobic compost culture for decomposition the farm wastes or bulky organic wastes. | Farm waste management |
| 2 | Byndoor | Byndoor | Yaljith-Teggarse | 1 | Maize | Lack of knowledge on Nano fertilizers and its usage and Low fertilizer use efficiency | Nutrient management |

| Sl.No. | Taluk | Name of the block | Name of the village | How long the village is covered under operational area of the KVK (specify the years) | Major crops & enterprises | Major problem identified | Identified Thrust Areas |
|---|---|---|---|---|---|---|---|
| 3 | Udupi | Udupi | Shirva/ Karkala | 1 | Elephant foot yam | High planting material cost (Rs. 30 per kg)<br>Non availability of required quantity of planting material | ICM |
| 4 | Udupi | Udupi | Heggunje | 1 | Black pepper | Black pepper hybrid Panniyur-1 susceptible for foot rot and does not yield to its potential in arecanut garden | ICM |
| 5 | Brahmavar | Brahmavar | Manoor | 1 | Water melon | Improper nutrient management coupled with low fertilizer use efficiency | INM |
| 6 | Brahmavar | Brahmavar | Mandarthi | 2 | Coconut | It is an Invasive pest and there is no package of practice for management of the pest | IPM |
| 7 | Brahmavar | Brahmavar | Kokkarne | 1 | Yardlong bean | High incidence of Pod borer, Farmers reluctant to use chemicals at Harvesting stage Customer rejection, Low price in the Market | Organic farming |
| 8 | Hebri | Hebri | Santhekatte | 1 | Bamboo | Wild Animal Menace, fallow lands due to absentee land owners | Agro forestry |
| 9 | Brahmavar | Brahmavar | Pethri | 1 | Fish | Non availability of high value, fast growing and hardy fish species which can fetch a good local market price and unwanted trash fish population in earthen ponds which are affecting the growth and survival rate of carps | |

| Sl.No. | Taluk | Name of the block | Name of the village | How long the village is covered under operational area of the KVK (specify the years) | Major crops & enterprises | Major problem identified | Identified Thrust Areas |
|---|---|---|---|---|---|---|---|
| 10 | Brahmavar | Brahmavar | Parampalli, Saligrama | 1 | Paddy | The raising cost and scarcity of labour at peak periods<br>Weed Problems<br>Erratic rainfall<br>High Cost of cultivation | Resource conservation technology |
| 11 | Karkala | Karkala | Shirlalu | 2 | Red rice paddy | Low yield, Susceptible to pests and diseases and submergence<br>Age old variety Water submergence in the field upto 15 days<br>Pest and Diseases | Flood tolerant variety |
| 12 | Kundapur | Kundapur | Kunda barandady | 1 | Paddy | Low yield due to predominate *Vaucheria*<br>and other weed species<br>Cono weeding leads in spread of *vaucheria* weed<br>Improper lime application<br>Reduces the efficiency of harvesting | Weed management |
| 13 | Brahmavar | Brahmavar | Heggunje | 2 | Udupi Jasmine | Low yield during off season | ICM |
| 14 | Brahmavar | Brahmavar | Sastavu | 2 | Spinegourd | Varieties cultivated are low yielding and each fruit weighs less than 45grams.<br>Scientific cultivation of the crop is not practiced | ICM |

| Sl.No. | Taluk | Name of the block | Name of the village | How long the village is covered under operational area of the KVK (specify the years) | Major crops & enterprises | Major problem identified | Identified Thrust Areas |
|---|---|---|---|---|---|---|---|
| | | | | | | Not yet commercially exploited, restricted only for kitchen garden | |
| 15 | Byndoor | Byndoor | Heranjalu | 1 | Watermelon | Poor initiation of female flowers and fruit set<br>Sucking pests and fruit fly incidence<br>Incidence of bud necrosis | ICM |
| 16 | Karkala | Karkala | Shirlalu | 2 | Black pepper | Imbalanced use of nutrients leads to Low productivity in Black pepper.<br>Black pepper is susceptible to diseases (wilt ) due to lack of potassium in soil.<br>Pepper growing soils of Udupi district are low in potassium (soil test values of KVK). | INM |
| 17 | Brahmavar | Brahmavar | Mandarthi | 2 | Coconut | Deficiency of secondary nutrients in Coconut growing areas (soil test values)<br>Premature nut dropping due to lack of potassium<br>Coconut is susceptible to major diseases and pests due to imbalanced nutrition | INM |
| 18 | Karkala | Karkala | Shirlalu | 2 | Arecanut | Deficiency of potassium in Arecanut growing areas (soil test values)<br>Premature nut dropping and nut splitting | INM |

| Sl.No. | Taluk | Name of the block | Name of the village | How long the village is covered under operational area of the KVK (specify the years) | Major crops & enterprises | Major problem identified | Identified Thrust Areas |
|---|---|---|---|---|---|---|---|
| | | | | | | Arecanut is susceptible to major diseases and pests due to imbalanced nutrition | |
| 19 | Karkala | Karkala | Shirlalu | 2 | Black pepper | High incidence of Quick wilt and following only chemical methods<br>Not removing affected vines<br>Not following proper drainage<br>Low Yield | IDM |
| 20 | Udupi | Udupi | Mattu | 1 | Ridge gourd | High incidence of Fruit flies and farmers following only chemical methods<br>Not removing affected fruits<br>Low Yield due to Fruit fly damage | IPM |
| 21 | Udupi | Udupi | Mattu | 1 | Brinjal | Severity of shoot and fruit borer infestation<br>Indiscriminate use of pesticides at different stage of crop<br>Crop loss due to shoot and fruit borer incidence | IPM |
| 22 | Karkala | Karkala | Shirlalu | 1 | Coconut | Rhinocerous Beetle damage leading to Red palm weevil and Budrot desease | Integrated Pest and disease management |
| 23 | Brahmavar | Brahmavar | Birthi, Barkur | 1 | Blackgram | Relay Cropping and Broad casting, Imbalanced use of Fertilizers, Aphids infestation | Utilization of fallow land |

| Sl.No. | Taluk | Name of the block | Name of the village | How long the village is covered under operational area of the KVK (specify the years) | Major crops & enterprises | Major problem identified | Identified Thrust Areas |
|---|---|---|---|---|---|---|---|
| 24 | Udupi | Udupi | Kadekar, Kinnimulky | 1 | Blackgram | Low yield due to Relay Cropping Broad casting | Labour scarcity |
| 25 | Udupi | Udupi | Kukkude | 1 | Fish | Slow growth in convention feed and wastage of feed and lower FCR rate | |
| 26 | Brahmavar | Brahmavar | Kukkehalli, Haladi, Perdoor, Jadkal | 1 | Fish | Less production due to poor water Quality management | |
| 27 | Udupi | Udupi | Amavasebailu, Haladi, Perdoor | 1 | Fish | High mortality of Fingerlings due to high infestation of harmful aquatic insect like Ranatra, Notonecta, Girris, Nepa,Cybester etc. and Lower survival rate, slow growth, uneven size of fingerlings due to imbalanced nutrition management | |

## 2.9 Priority thrust areas

| S. No | Thrust area |
|---|---|
| 1. | Salvenia (Antargange) weed management in low lying paddy areas |
| 2. | Spiraling white fly menace in coconut |
| 3. | Acidic soils |
| 4. | Bud necrosis virus in watermelon |
| 5. | Root grub in Arecanut |
| 6. | Labour scarcity |
| 7. | Imbalanced nutrient management and leaching loss of nutrients |
| 8. | Pest and disease problems |
| 9. | Alternate Paddy variety for MO-4 (Kharif Season) |
| 10. | Alternate Red Rice variety for Rabi season |
| 11. | Short duration Red Rice variety for Kharif season for contingent crop plan |
| 12. | Paddy variety suitable for DSR method of paddy sowing |
| 13. | Paddy white backed plant hopper menace in rabi paddy |
| 14. | Flood and salt tolerant paddy variety |
| 15. | Red palm weevil menace in coconut and Arecanut (not able to control by the use of pheromone traps) |
| 16. | Effective management practices for managing quick wilt in black pepper |
| 17. | Yellow green algae in paddy |
| 18. | Wild animal menace |

## PART III - TECHNICAL ACHIEVEMENTS

**3.A. Target and Achievements of mandatory activities**

| OFT | | | | FLD | | | |
|---|---|---|---|---|---|---|---|
| 1 | | | | 2 | | | |
| OFTs (No.) | | Farmers (No.) | | FLDs (No.) | | Farmers (No.) | |
| Target | Achievement | Target | Achievement | Target | Achievement | Target | Achievement |
| 9 | 9 | 59 | 59 | 18 | 18 | 200 | 200 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Training (Farmers/farm women) | | | | Training (Rural youth) | | | |
|---|---|---|---|---|---|---|---|
| 3 | | | | 4 | | | |
| Courses (No.) | | Participants (No.) | | Programmes (No.) | | Participants (No.) | |
| Target | Achievement | Target | Achievement | Target | Achievement | Target | Achievement |
| 52 | 69 | 1495 | 2451 | 3 | 1 | 90 | 27 |
| | | | | | | | |
| | | | | | | | |

| Training (Extension personnel) | | | | Training (sponsored) | | | |
|---|---|---|---|---|---|---|---|
| 5 | | | | 6 | | | |
| Courses (No.) | | Participants (No.) | | Programmes (No.) | | Participants (No.) | |
| Target | Achievement | Target | Achievement | Target | Achievement | Target | Achievement |
| **3** | **-** | **90** | **-** | 1 | 4 | 30 | 157 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Training (Vocational) | | | | Extension Programmes | | | |
|---|---|---|---|---|---|---|---|
| 7 | | | | 8 | | | |
| Courses (No.) | | Participants (No.) | | Programmes (No.) | | Participants (No.) | |
| Target | Achievement | Target | Achievement | Target | Achievement | Target | Achievement |
| **3** | **-** | **90** | **-** | 5767 | 7075 | 125182 | 91713 |
| | | | | | | | |

| Seed Production (Q) | | Planting material (Nos.) | |
|---|---|---|---|
| 9 | | 10 | |
| Target | Achievement | Target | Achievement |
| 0.5 | 0.37 | 33000 | 20039 |
| | | | |

| Livestock, poultry strains and fingerlings (No.) | | Bio-products (Kg) | |
|---|---|---|---|
| 11 | | 12 | |
| Target | Achievement | Target | Achievement |
| 34000 | 26429 | 2500 | 1324 |
| | | | |
| | | | |

| Soil, water, plant and manure analysis (including mobile kits) | | | | Mobile agro advisories provided | | | |
|---|---|---|---|---|---|---|---|
| 13 | | | | 14 | | | |
| Samples (No.) | | Farmers (No.) | | Messages including text, voice (No.) | | Farmers (No.) | |
| Target | Achievement | Target | Achievement | Target | Achievement | Target | Achievement |
| 535 | 83 | 535 | 83 | - | 17 | - | 79570 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

**3.B1. Abstract of interventions undertaken**

| S. No | Thrust area | Crop/ Enterprise | Identified Problem | Interventions | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Title of OFT if any | Title of FLD if any | Number of Training (farmers) | Number of Training (Youths) | Number of Training (extension personnel) | Extension activities (No.) | Supply of seeds (Qtl.) | Supply of planting materials (No.) | Supply of livestock (No.) | Supply of bio products | |
| | | | | | | | | | | | | | No. | Kg |
| 1 | Farm waste management | Compost | Non availability of Suitable aerobic compost culture for decomposition the farm wastes or bulky organic wastes | Assessment of Decomposition Cultures for compost preparation | - | 2 | - | - | 2 | - | - | - | | UAHSD compost culture – 65kg, ICRISAT Madyam Culture – 40 kg, Waste decomposer culture – 60 bottles, UAHS, Shivamogga Compost culture – 50 kg |
| 2 | Nutrient management | Maize | Lack of knowledge on Nano fertilizers and its usage and Low fertilizer use efficiency | Assessment of Nano Fertilizer (N& Zn) on growth and yield of Maize | - | 2 | - | - | 2 | Maize seeds – 0.24 | - | - | - | Nano urea liquid – 20 ltrs |
| 3 | ICM | Elephant foot yam | High planting material cost (Rs. 30 per kg) | Assessment of propagation techniques to | - | 1 | - | - | 3 | | Elephant foot yam | - | - | - |

| S. No | Thrust area | Crop/ Enterprise | Identified Problem | Interventions | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Title of OFT if any | Title of FLD if any | Number of Training (farmers) | Number of Training (Youths) | Number of Training (extension personnel) | Extension activities (No.) | Supply of seeds (Qtl.) | Supply of planting materials (No.) | Supply of livestock (No.) | Supply of bio products | |
| | | | | | | | | | | | | | No. | Kg |
| | | | Non availability of required quantity of planting material | reduce the quantity of planting material in Elephant foot yam (Amorphophallus) | | | | | | | corms-750 kgs | | | |
| 4 | ICM | Black pepper | Black pepper hybrid Panniyur-1 susceptible for foot rot and does not yield to its potential in arecanut garden | Assessment of Black Pepper varieties for higher yield under arecanut based cropping system | - | 1 | - | - | 3 | | Black pepper panniyur-1- 400 Nos, Panniyur 8- 400, Arka Coorg Excel - 400 Nos | | | AMC – 30 kg |
| 5 | INM | Watermelon | Improper nutrient management coupled with low fertilizer use efficiency | Assessment of Nutritional requirement in water melon for Coastal Karnataka | - | 1 | - | - | 1 | - | - | - | - | - |
| 6 | IPM | Coconut | It is an Invasive pest and there is no package of | Assessing the Management Practices of | - | 2 | - | - | 1 | - | - | - | - | *Isaria fumosorosea- 12 kg,* Neem |

| S. No | Thrust area | Crop/ Enterprise | Identified Problem | Interventions | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Title of OFT if any | Title of FLD if any | Number of Training (farmers) | Number of Training (Youths) | Number of Training (extension personnel) | Extension activities (No.) | Supply of seeds (Qtl.) | Supply of planting materials (No.) | Supply of livestock (No.) | Supply of bio products | |
| | | | | | | | | | | | | | No. | Kg |
| | | | practice for management of the pest | Rugose Spiralling Whitefly in Coconut | | | | | | | | | | oil – 12 ltr |
| 7 | Organic farming | Yard long bean | High incidence of Pod borer, Farmers reluctant to use chemicals at Harvesting stage<br><br>Customer rejection, Low price in the Market | Assessment of Organic Management of Pod Borer in Yard long Bean | - | 1 | - | - | 4 | - | - | - | - | Neem seeds – 12 kg, NPV-150 ML, Neem oil 500 ml |
| 8 | Agro forestry | Bamboo | Wild Animal Menace, fallow lands due to absentee land owners | Assessment of Bamboo for Economical and Ecological benefits in fallow lands of Udupi district | - | 2 | 1 | - | 2 | - | Tulda bamboo – 80 Nos, Burma bamboo 80 Nos, Aster bamboo 40 Nos, local 40 Nos | - | - | - |

| S. No | Thrust area | Crop/ Enterprise | Identified Problem | Interventions | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Title of OFT if any | Title of FLD if any | Number of Training (farmers) | Number of Training (Youths) | Number of Training (extension personnel) | Extension activities (No.) | Supply of seeds (Qtl.) | Supply of planting materials (No.) | Supply of livestock (No.) | Supply of bio products | |
| | | | | | | | | | | | | | No. | Kg |
| 9 | | Fish | Non availability of high value, fast growing and hardy fish species which can fetch a good local market price and unwanted trash fish population in earthen ponds which are affecting the growth and survival rate of carps | Assessment of growth performance of Murrels in trash fish infested coastal farm ponds | | | | | | | | | | |
| 10 | Resource conservation technology | Paddy | The raising cost and scarcity of labour at peak periods<br>Weed Problems<br>Erratic rainfall<br>High Cost of cultivation | - | Introduction of DSR method of Paddy cultivation in coastal region to address the labour issue | 1 | - | - | 1 | - | - | - | | Herbicides – 400 ml, insecticides – 350 ml, Fungicidee- 250 g, water soluable fertilizers 2 kg |

| S. No | Thrust area | Crop/ Enterprise | Identified Problem | Interventions | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Title of OFT if any | Title of FLD if any | Number of Training (farmers) | Number of Training (Youths) | Number of Training (extension personnel) | Extension activities (No.) | Supply of seeds (Qtl.) | Supply of planting materials (No.) | Supply of livestock (No.) | Supply of bio products | |
| | | | | | | | | | | | | | No. | Kg |
| 11 | Flood tolerant variety | Red rice paddy | Low yield, Susceptible to pests and diseases and submergence Age old variety Water submergence in the field upto 15 days Pest and Diseases | | Demonstration of Low land submerged tolerant Red rice Paddy variety Shayadri Panchamuki in coastal zone during kharif season | 1 | - | - | 1 | Sahyadri panchamuki seeds – 2 qt. | - | - | | Water soluable fertilizer 2 kg, azospirillum 1 kg, neem oil 300 ppm – 1 ltr |
| 12 | Weed management | Paddy | Low yield due to predominate *Vaucheria* and other weed species, Cono weeding leads in spread of *vaucheria* weed, Improper lime application, Reduces the efficiency of | | Management of *Vaucheria* Species Weed and other Weed Species in *kharif* season Paddy of Udupi district | 2 | - | - | 1 | - | - | - | - | Herbicide – 750 ml, water soluable fertilizer 2 kg, Chloropyriphos – 250 ml, neem oil 300 ppm – 1 ltr |

| S. No | Thrust area | Crop/ Enterprise | Identified Problem | Interventions | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Title of OFT if any | Title of FLD if any | Number of Training (farmers) | Number of Training (Youths) | Number of Training (extension personnel) | Extension activities (No.) | Supply of seeds (Qtl.) | Supply of planting materials (No.) | Supply of livestock (No.) | Supply of bio products | |
| | | | | | | | | | | | | | No. | Kg |
| | | | harvesting | | | | | | | | | | | |
| 13 | ICM | Udupi Jasmine | Low yield during off season | - | Demonstration of Pruning and INM to induce off season flowering in Udupi Jasmine | 1 | - | - | 4 | - | - | - | Secature -10 Nos | AMC – 20 kg, micronutrients – 5 ltrs |
| 14 | ICM | Spinegourd | Varieties cultivated are low yielding and each fruit weighs less than 45grams., Scientific cultivation of the crop is not practiced, Not yet commercially exploited, restricted only for kitchen garden | - | Demonstration of Spine gourd variety - Arka Bharath | 1 | - | - | 5 | - | Arka bharath Spinegourd seedlings – 500 Nos | | Fruit fly trap 10 Nos | Shyadri Thrishool – 20 kg |
| 15 | ICM | Watermelon | Poor initiation of female flowers and fruit set | - | ICM in Watermelon | 1 | - | - | 3 | - | | | Fruit fly trap | AMC – 20 kgs, IIHR neem soap – 10 kgs, Arka |

| S. No | Thrust area | Crop/ Enterprise | Identified Problem | Interventions | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Title of OFT if any | Title of FLD if any | Number of Training (farmers) | Number of Training (Youths) | Number of Training (extension personnel) | Extension activities (No.) | Supply of seeds (Qtl.) | Supply of planting materials (No.) | Supply of livestock (No.) | Supply of bio products | |
| | | | | | | | | | | | | | No. | Kg |
| | | | Sucking pests and fruit fly incidence Incidence of bud necrosis | | | | | | | | | | – 10 Nos | vegetable special – 10 kgs |
| 16 | INM | Black pepper | Imbalanced use of nutrients leads to Low productivity in Black pepper., Black pepper is susceptible to diseases (wilt ) due to lack of potassium in soil., Pepper growing soils of Udupi district are low in potassium (soil test values of KVK ). | - | Integrated Nutrient Management in Black Pepper | 1 | - | - | 2 | - | - | - | - | - |
| 17 | INM | Coconut | Deficiency of secondary nutrients in Coconut growing areas | | Integrated Nutrient Management in Coconut | 1 | - | - | 2 | - | - | - | - | - |

| S. No | Thrust area | Crop/ Enterprise | Identified Problem | Interventions | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Title of OFT if any | Title of FLD if any | Number of Training (farmers) | Number of Training (Youths) | Number of Training (extension personnel) | Extension activities (No.) | Supply of seeds (Qtl.) | Supply of planting materials (No.) | Supply of livestock (No.) | Supply of bio products | |
| | | | | | | | | | | | | | No. | Kg |
| | | | (soil test values), Premature nut dropping due to lack of potassium, Coconut is susceptible to major diseases and pests due to imbalanced nutrition | | | | | | | | | | | |
| 18 | INM | Arecanut | Deficiency of potassium in Arecanut growing areas (soil test values) Premature nut dropping and nut splitting Arecanut is susceptible to major diseases and pests due to imbalanced nutrition | - | Integrated Nutrient Management In Arecanut | 1 | - | - | 2 | - | - | - | - | - |

| S. No | Thrust area | Crop/ Enterprise | Identified Problem | Interventions | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Title of OFT if any | Title of FLD if any | Number of Training (farmers) | Number of Training (Youths) | Number of Training (extension personnel) | Extension activities (No.) | Supply of seeds (Qtl.) | Supply of planting materials (No.) | Supply of livestock (No.) | Supply of bio products | |
| | | | | | | | | | | | | | No. | Kg |
| 19 | IDM | Black pepper | High incidence of Quick wilt and following only chemical methods, Not removing affected vines, Not following proper drainage Low Yield | | Demonstration on Management of quick wilt in black pepper | 2 | - | - | 2 | - | - | - | - | Sahyadri Thrishool – 90 kg, Tricoderma viridae – 50 kg, Potassium phosphonate – 25 ltr, Neem cake – 250 kg |
| 20 | IPM | Ridgegourd | High incidence of Fruit flies and farmers following only chemical methods, Not removing affected fruits, Low Yield due to Fruit fly damage | - | Demonstration on Management of Fruit fly in Ridge gourd | 2 | - | - | 1 | Ridge gourd seeds – 750 g | - | - | - | Neem cake – 250 kg, Neem oil – 6.5 ltr, fruitfly traps – 9 Nos. |
| 21 | IPM | Brinjal | Severity of shoot and fruit borer infestation, Indiscriminate | | Demonstration of Bio-intensive Management of Brinjal | 2 | - | - | 1 | - | - | - | - | *Bt* formulation-2.5 ltr., neem oil – 5 ltr, neem cake – |

| S. No | Thrust area | Crop/ Enterprise | Identified Problem | Interventions | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Title of OFT if any | Title of FLD if any | Number of Training (farmers) | Number of Training (Youths) | Number of Training (extension personnel) | Extension activities (No.) | Supply of seeds (Qtl.) | Supply of planting materials (No.) | Supply of livestock (No.) | Supply of bio products | |
| | | | | | | | | | | | | | No. | Kg |
| | | | use of pesticides at different stage of crop, Crop loss due to shoot and fruit borer incidence | | Shoot and Fruit borer, *Leucinodes orbonalis* | | | | | | | | | 500 kg, wota trap – 20 Nos |
| 22 | Integrated pest and disease management | Coconut | Rhinocerous Beetle damage leading to Red palm weevil and Budrot desease | | Integrated Management of Rhinoceros Beetle Coconut | 2 | 1 | - | 5 | Single tread nylon net-10 kg | - | - | - | Metarizium – 125 kgs, |
| 23 | Utilization fallow land | Blackgram | Relay Cropping and Broad casting, Imbalanced use of Fertilizers, Aphids infestation | | Demonstration of Black gram (LBG 791 Var.) under Residual Moisture situation | 2 | - | - | 4 | LBG 791 seeds – 80 kg | - | - | - | - |
| 24 | Labour scarcity | Blackgram | Low yield due to Relay Cropping Broad casting | | Demonstration of UAHS, Power tiller operated Seed cum fertilizer drill in Black gram | 3 | - | - | 6 | Power tiller highering charges Rs.25000 | - | - | - | - |

| S. No | Thrust area | Crop/ Enterprise | Identified Problem | Interventions | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Title of OFT if any | Title of FLD if any | Number of Training (farmers) | Number of Training (Youths) | Number of Training (extension personnel) | Extension activities (No.) | Supply of seeds (Qtl.) | Supply of planting materials (No.) | Supply of livestock (No.) | Supply of bio products | |
| | | | | | | | | | | | | | No. | Kg |
| 25 | | Fish | Slow growth in convention feed and wastage of feed and lower FCR rate | | Feed based culture of Carps in farm ponds | | | | | | | | | |
| 26 | | Fish | Less production due to poor water Quality management | | Management of water quality in carp culture ponds | | | | | | | | | |
| 27 | | Fish | High mortality of Fingerlings due to high infestation of harmful aquatic insect like Ranatra, Notonecta, Girris, Nepa,Cybester etc. and Lower survival rate, slow growth, uneven size of fingerlings due to imbalanced nutrition management | | Demonstration of aquatic insects Control and nutritional balancing by carp nursery feed developed by ICAR – CIFA, Bhubaneswar | | | | | | | | | |

**3.B2. Details of technology used during reporting period**

| S.No | Title of Technology | Source of technology | Crop/enterprise | No.ofprogrammes conducted | | | |
|---|---|---|---|---|---|---|---|
| | | | | OFT | FLD | Training | Others (Specify) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | Assessment of Decomposition Cultures for compost preparation | NCORF, Gaziabad, ICRISAT, Hyderabad, UAHS, Shivamogga | Compost | 1 | - | 1 | Field visit, Group discussion meetings, Method demonstration, Training programmes |
| 2 | Assessment of Nano Fertilizer (N& Zn) on growth and yield of Maize | UAHS, Shivamogga, IFFCO-NBRC, Gujarath | Maize | 1 | - | 2 | Field visit, Group discussion meetings, Method demonstration, Training programmes |
| 3 | Assessment of propagation techniques to reduce the quantity of planting material in Elephant foot yam (Amorphophallus) | UHS, Bagalkot, KAU, Thrissur | Elephant foot yam | 1 | - | 1 | Field visit, Group discussion meetings, Method demonstration, Training programmes |
| 4 | Assessment of Black Pepper varieties for higher yield under arecanut based cropping system | KAU, Kerala IIHR, CHES Chettali and IISR, Appangala, Karnataka | Black pepper | 1 | - | 1 | Field visit, Group discussion meetings, Method demonstration, Training programmes |
| 5 | Assessment of Nutritional requirement in water melon for Coastal Karnataka | RDF for Tamilnadu coastal soils, UAHS RDF for Watermelon | Watermelon | 1 | - | 1 | Field visit, Group discussion meetings, Method demonstration, Training programmes |

| S.No | Title of Technology | Source of technology | Crop/enterprise | No.ofprogrammes conducted | | | |
|---|---|---|---|---|---|---|---|
| | | | | OFT | FLD | Training | Others (Specify) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 6 | Assessing the Management Practices of Rugose Spiralling Whitefly in Coconut | CPCRI, Kasargod ICAR-NBAIR, Bengaluru | Coconut | 1 | - | 1 | Field visit, Group discussion meetings, Method demonstration, Training programmes |
| 7 | Assessment of Organic Management of Pod Borer in Yard long Bean | KAU TNAU | Yardlong bean | 1 | - | 1 | Field visit, Group discussion meetings, Method demonstration, Training programmes |
| 8 | Assessment of Bamboo for Economical and Ecological benefits in fallow lands of Udupi district | UAHS, Shivamoga and College of Forestry, Ponnampet | Bamboo | 1 | - | 1 | Field visit, Group discussion meetings, Method demonstration, Training programmes |
| 9 | Assessment of growth performance of Murrels in trash fish infested coastal farm ponds | CIFRI, Barakpur, CIFA Bhubaneshwar | Fish | 1 | - | | Field visit, Group discussion meetings, Method demonstration, Training programmes |
| 10 | Introduction of DSR method of Paddy cultivation in coastal region to address the labour issue | UAS(R) - 2013 | Paddy | - | 1 | 1 | Field visit, Group discussion meetings, Method demonstration, Training programmes |

| S.No | Title of Technology | Source of technology | Crop/enterprise | No.ofprogrammes conducted | | | |
|---|---|---|---|---|---|---|---|
| | | | | OFT | FLD | Training | Others (Specify) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 11 | Demonstration of Low land submerged tolerant Red rice Paddy variety Shayadri Panchamuki in coastal zone during kharif season | UAHS - 2019 | Red rice paddy | - | 1 | 1 | Field visit, Group discussion meetings, Method demonstration, Training programmes |
| 12 | Management of *Vaucheria* Species Weed and other Weed Species in *kharif* season Paddy of Udupi district | UAHS - 2020 | Paddy | - | 1 | 1 | Field visit, Group discussion meetings, Method demonstration, Training programmes |
| 13 | Demonstration of Pruning and INM to induce off season flowering in Udupi Jasmine | TNAU,Coimbatore | Udupi Jasmine | - | 1 | 1 | Field visit, Group discussion meetings, Method demonstration, Training programmes |
| 14 | Demonstration of Spine gourd variety - Arka Bharath | IIHR, Bengaluru | Spinegourd | - | 1 | 1 | Field visit, Group discussion meetings, Method demonstration, Training programmes |
| 15 | ICM in Watermelon | IIHR, Bengaluru, TNAU, Coimbatore, IIHR, Bengaluru, UHS, Bagalkot | Watermelon | - | 1 | 1 | Field visit, Group discussion meetings, Method demonstration, Training programmes |

| S.No | Title of Technology | Source of technology | Crop/enterprise | No.ofprogrammes conducted | | | |
|---|---|---|---|---|---|---|---|
| | | | | OFT | FLD | Training | Others (Specify) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 16 | Integrated Nutrient Management in Black Pepper | UAHS, Shivamogga | Black pepper | - | 1 | 1 | Field visit, Group discussion meetings, Method demonstration, Training programmes |
| 17 | Integrated Nutrient Management in Coconut | UAHS, Shivamogga | Coconut | - | 1 | 1 | Field visit, Group discussion meetings, Method demonstration, Training programmes |
| 18 | Integrated nutrient management in Arecanut | UAHS Shivamogga | Arecanut | - | 1 | 1 | Field visit, Group discussion meetings, Method demonstration, Training programmes |
| 19 | Demonstration on Management of quick wilt in black pepper | IISR Calicut, IIHR Bengaluru | Blackpepper | - | 1 | 2 | Field visit, Group discussion meetings, Method demonstration, Training programmes |
| 20 | Demonstration on Management of Fruit fly in Ridge gourd | IIHR Bengaluru | Ridgegourd | - | 1 | 2 | Field visit, Group discussion meetings, Method demonstration, Training programmes |

| S.No | Title of Technology | Source of technology | Crop/enterprise | No.ofprogrammes conducted | | | |
|---|---|---|---|---|---|---|---|
| | | | | OFT | FLD | Training | Others (Specify) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 21 | Demonstration of Bio-intensive Management of Brinjal Shoot and Fruit borer, *Leucinodes orbonalis* | IIHR, Bengaluru TNAU, Coimbatore | Brinjal | - | 1 | 2 | Field visit, Group discussion meetings, Method demonstration, Training programmes |
| 22 | Integrated Management of Rhinoceros Beetle Coconut | CPCRI – Kasargod | Coconut | - | 1 | 2 | Field visit, Group discussion meetings, Method demonstration, Training programmes |
| 23 | Demonstration of Black gram (LBG 791 Var.) under Residual Moisture situation | UAS, Bangaluru | Blackgram | - | 1 | 2 | Field visit, Group discussion meetings, Method demonstration, Training programmes |
| 24 | Demonstration of UAHS, Power tiller operated Seed cum fertilizer drill in Black gram | UAHS, Shivamogga | Blackgram | - | 1 | 1 | Field visit, Group discussion meetings, Method demonstration, Training programmes |
| 25 | Feed based culture of Carps in farm ponds | CIFA, Bhubaneswar | Fish | - | 1 | | Field visit, Group discussion meetings, Method demonstration, Training programmes |

| S.No | Title of Technology | Source of technology | Crop/enterprise | No.ofprogrammes conducted | | | |
|---|---|---|---|---|---|---|---|
| | | | | OFT | FLD | Training | Others (Specify) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 26 | Management of water quality in carp culture ponds | CIFE Mumbai | Fish | - | 1 | | Field visit, Group discussion meetings, Method demonstration, Training programmes |
| 27 | Demonstration of aquatic insects Control and nutritional balancing by carp nursery feed developed by ICAR – CIFA, Bhubaneswar | CIFA, Bhuabaneswar | Fish | - | 1 | | Field visit, Group discussion meetings, Method demonstration, Training programmes |

**3.B2 contd..**

| No. of farmers covered | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OFT | | | | FLD | | | | Training | | | | Others (Specify) | | | |
| General | | SC/ST | | General | | SC/ST | | General | | SC/ST | | General | | SC/ST | |
| M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 39 | 10 | 7 | 3 | 157 | 26 | 17 | - | 1896 | 788 | 26 | 15 | | | | |

## PART IV - On Farm Trial

**4.A1. Abstract on the number of technologies assessed in respect of crops**

| Thematic areas | Cereals | Oilseeds | Pulses | Commercial Crops | Vegetables | Fruits | Flower | Plantation crops | Tuber Crops | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| Integrated Nutrient Management | 1 | | | | 1 | | | | | 2 |
| Varietal Evaluation | | | | | | | | | | |
| Integrated Pest Management | | | | | 1 | | | 1 | | 2 |
| Integrated Crop Management | | | | | | | | 1 | 1 | 2 |
| Integrated Disease Management | | | | | | | | | | |
| Small Scale Income Generation Enterprises | | | | | | | | | | |
| Weed Management | | | | | | | | | | |
| Resource Conservation Technology | 1 | | | | | | | | | 1 |
| Farm Machineries | | | | | | | | | | |
| Integrated Farming System | | | | | | | | | | |
| Seed / Plant production | | | | | | | | | | |
| Value addition | | | | | | | | | | |
| Drudgery Reduction | | | | | | | | | | |
| Storage Technique | | | | | | | | | | |
| Cropping Systems | | | | | | | | 1 | | 1 |
| Farm Mechanization | | | | | | | | | | |
| Mushroom cultivation | | | | | | | | | | |
| others | | | | | | | | | | |
| Total | 2 | - | - | - | 2 | - | - | 3 | 1 | 8 |

**4.A2. Abstract on the number of technologies refined in respect of crops**

| Thematic areas | Cereals | Oilseeds | Pulses | Commercial Crops | Vegetables | Fruits | Flower | Plantation crops | Tuber Crops | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| Integrated Nutrient Management | | | | | | | | | | |
| Varietal Evaluation | | | | | | | | | | |
| Integrated Pest Management | | | | | | | | | | |
| Integrated Crop Management | | | | | | | | | | |
| Integrated Disease Management | | | | | | | | | | |
| Small Scale Income Generation Enterprises | | | | | | | | | | |
| Weed Management | | | | | | | | | | |
| Resource Conservation Technology | | | | | | | | | | |
| Farm Machineries | | | | | | | | | | |
| Integrated Farming System | | | | | | | | | | |
| Seed / Plant production | | | | | | | | | | |
| Value addition | | | | | | | | | | |
| Drudgery Reduction | | | | | | | | | | |
| Storage Technique | | | | | | | | | | |
| Cropping Systems | | | | | | | | | | |
| Farm Mechanization | | | | | | | | | | |
| Mushroom cultivation | | | | | | | | | | |
| Others | | | | | | | | | | |
| **Total** | | | | | | | | | | |

**4.A3. Abstract on the number of technologies assessed in respect of livestock**

| Thematic areas | Cattle | Poultry | Piggery | Rabbit | Fisheries | TOTAL |
|---|---|---|---|---|---|---|
| Evaluation of Breeds | | | | | | |
| Nutrition Management | | | | | | |
| Disease of Management | | | | | | |
| Value Addition | | | | | | |
| Production and Management | | | | | 1 | 1 |
| Feed and Fodder | | | | | | |
| Small Scale income generating enterprises | | | | | | |
| Dairy | | | | | | |
| Others (Pl. specify) | | | | | | |
| **TOTAL** | | | | | **1** | **1** |

**4.A4. Abstract on the number of technologies refined in respect of livestock**

| Thematic areas | Cattle | Poultry | Piggery | Rabbit | Fisheries | TOTAL |
|---|---|---|---|---|---|---|
| Evaluation of Breeds | | | | | | |
| Nutrition Management | | | | | | |
| Disease of Management | | | | | | |
| Value Addition | | | | | | |
| Production and Management | | | | | | |
| Feed and Fodder | | | | | | |
| Small Scale income generating enterprises | | | | | | |
| Dairy | | | | | | |
| Others (Pl. specify) | | | | | | |
| **TOTAL** | | | | | | |

**4.B. Achievements on technologies Assessed and Refined**

**4.B.1. Technologies Assessed under various Crops**

| Thematic areas | Crop | Name of the technologies | No. of trials | Number of farmers / locations | Area in ha (Per trial covering all Technological Options in a farm) |
|---|---|---|---|---|---|
| Integrated Nutrient Management | Watermelon | INM in watermelon | 3 | 3 | 0.2 |
| | Maize | Assessment of Nano Fertilizer (N& Zn) on growth and yield of Maize | 20 | 20 | 8 |
| Varietal Evaluation | | | | | |
| | | | | | |
| Integrated Pest Management | Yardlong bean | Assessment of Organic Management of Pod Borer in Yard long Bean (New) | 5 | 5 | 1 |
| | Coconut | Assessing the Management Practices of Rugose Spiralling Whitefly in Coconut | 6 | 6 | 2.4 |
| Integrated Crop Management | Elephant foot yam | Assessment of propagation techniques to reduce the quantity of planting material in Elephant foot yam (Amorphophallus) | 5 | 5 | 0.2 |
| | Black pepper | Assessment of Black Pepper varieties for higher yield under arecanut based cropping system | 5 | 5 | 0.2 |
| Integrated Disease Management | | | | | |
| | | | | | |
| Small Scale Income Generation Enterprises | | | | | |
| | | | | | |
| Weed Management | | | | | |
| | | | | | |

| Thematic areas | Crop | Name of the technologies | No. of trials | Number of farmers / locations | Area in ha (Per trial covering all Technological Options in a farm) |
|---|---|---|---|---|---|
| Resource Conservation Technology | Compost | Assessment of Decomposition Cultures for compost preparation | 6 | 6 | - |
| | Bamboo | Assessment of Bamboo for Economical and Ecological benefits in fallow lands of Udupi district | 5 | 5 | 2 |
| Farm Machineries | | | | | |
| | | | | | |
| Integrated Farming System | | | | | |
| | | | | | |
| Seed / Plant production | | | | | |
| | | | | | |
| Value addition | | | | | |
| | | | | | |
| Drudgery Reduction | | | | | |
| | | | | | |
| Storage Technique | | | | | |
| | | | | | |
| Mushroom cultivation | | | | | |
| | | | | | |
| **Total** | | | 55 | 55 | 14 |

**4.B.2. Technologies Refined under various Crops**

| Thematic areas | Crop | Name of the technologies | No. of trials | Number of farmers/locations | Area in ha (Per trial covering all Technological Options in a farm) |
|---|---|---|---|---|---|
| Integrated Nutrient Management | | | | | |
| | | | | | |
| Varietal Evaluation | | | | | |
| | | | | | |
| Integrated Pest Management | | | | | |
| | | | | | |
| Integrated Crop Management | | | | | |
| | | | | | |
| Integrated Disease Management | | | | | |
| | | | | | |
| Small Scale Income Generation Enterprises | | | | | |
| | | | | | |
| Weed Management | | | | | |
| | | | | | |
| Resource Conservation Technology | | | | | |
| | | | | | |
| Farm Machineries | | | | | |
| | | | | | |
| Integrated Farming System | | | | | |
| | | | | | |
| Seed / Plant production | | | | | |
| | | | | | |
| Post Harvest Technology/Value addition | | | | | |

| Thematic areas | Crop | Name of the technologies | No. of trials | Number of farmers/locations | Area in ha (Per trial covering all Technological Options in a farm) |
|---|---|---|---|---|---|
| | | | | | |
| Drudgery Reduction | | | | | |
| | | | | | |
| Storage Technique | | | | | |
| | | | | | |
| Mushroom cultivation | | | | | |
| | | | | | |
| Cropping Systems | | | | | |
| Farm Mechanization | | | | | |
| Others, Pl specify | | | | | |
| **Total** | | | | | |

**4.B.3. Technologies assessed under Livestock**

| Thematic areas | Name of the livestock | Name of the technologies | No. of trials | No. of farmers/locations |
|---|---|---|---|---|
| Evaluation of breeds | | | | |
| Nutrition management | | | | |
| Disease management | | | | |
| Processing and Value addition | | | | |
| Production and management | Fish | Assessment of growth performance of Murrels in trash fish infested | 4 | 4 |

| | | | | |
|---|---|---|---|---|
| | | coastal farm ponds | | |
| Feed and fodder management | | | | |
| Small scale income generating enterprises | | | | |
| Others, pl. specify | | | | |
| **Total** | | | 4 | 4 |

**4.B.4. Technologies Refined under Livestock and other enterprises**

| Thematic areas | Name of the livestock | Name of the technologies | No. of trials | No. of farmers/locations |
|---|---|---|---|---|
| Evaluation of breeds | | | | |
| Nutrition management | | | | |
| Disease management | | | | |
| Processing and Value addition | | | | |
| Production and management | | | | |
| Feed and fodder management | | | | |
| Small scale income generating enterprises | | | | |
| Others, pl. specify | | | | |
| **Total** | | | | |

4.B.5. T**echnologies assessed under various enterprises by KVKs**

| Sl. | Thematic areas | Name of the enterprise | Name of technology(s) | No. of trials | No. of locations |
|---|---|---|---|---|---|
| 1 | Drudgery reduction | | | | |
| 2 | Entrepreneurship Development | | | | |
| 3 | Health and nutrition | | | | |
| 4 | Processing and value addition | | | | |

| Sl. | Thematic areas | Name of the enterprise | Name of technology(s) | No. of trials | No. of locations |
|---|---|---|---|---|---|
| 5 | Energy conservation | | | | |
| 6 | Small-scale income generation | | | | |
| 7 | Storage techniques | | | | |
| 8 | Household food security | | | | |
| 9 | Organic farming | | | | |
| 10 | Agroforestry management | | | | |
| 11 | Mechanization | | | | |
| 12 | Resource conservation technology | | | | |
| 13 | Value Addition | | | | |
| 14 | Others, pl. specify | | | | |

4.B.6.T**echnologies assessed under various enterprises for women empowerment**

| | Thematic areas | Name of enterprise | Name of technology(s) | No. of trials | No. of locations |
|---|---|---|---|---|---|
| 1 | Drudgery Reduction | | | | |
| 2 | Entrepreneurship Development | | | | |
| 3 | Health and Nutrition | | | | |
| 4 | Value Addition | | | | |
| 5 | Women Empowerment | | | | |
| 6 | Others, pl. specify | | | | |
| | | | | | |

**4.C1.Results of Technologies Assessed**

| Crop/ enterprise | Farming situation | Problem definition | Title of OFT | No. of trials | Technology Assessed | Source of technology | Yield | Unit of yield | Observations other than yield | Gross Return Rs. / unit | Net Return Rs. / unit | BC Ratio (Gross income/ Gross Cost) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Compost | - | Non availability of Suitable aerobic compost culture for decomposition the farm wastes or bulky organic wastes | Assessment of Decomposition Cultures for compost preparation | 6 | T.O.1: Cowdung + farm waste | (Farmers practice) | | | | On going | | |
| | | | | | T.O.2 Cowdung + farm waste + Waste decomposer culture (aerobic composting microbial consortium culture) | NCORF, Gaziabad | | | | | | |
| | | | | | T.O.3: Cowdung + farm waste + Madhyam culture (aerobic composting microbial consortium culture) | ICRISAT Hyderabad | | | | | | |
| | | | | | T.O.4: Cowdung + farm waste + UAHS Compost Culture (aerobic composting microbial consortium culture) | UAHS, Shivamogga | | | | | | |

**4. C2. Feedback on technologies assessed (On going)**

| Name of technology assessed | Useful characters as well as constraints of technology | Socio-economic as well as administrative constraints for its adoption |
|---|---|---|
| | | |

**4.C3. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)**

| | | |
|---|---|---|
| 1. | Title of Technology Assessed | |
| 2. | Performance of the Technology on specific indicators | |
| 3. | Specific Feedback from farmers | |
| 4. | Specific Feedback from Extension personnel and other stakeholders | |
| 5. | Feedback to Research System based on results and feedback received | |
| 6. | Feedback on usefulness and constraints of technology | |

**4.C1.Results of Technologies Assessed**

| Crop/ enterprise | Farming situation | Problem definition | Title of OFT | No. of trials | Technology Assessed | Source of technology | Yield q/ acre | Unit of yield | Observations other than yield | Gross Return Rs. / unit | Net Return Rs. / unit | BC Ratio (Gross income/ Gross Cost) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Maize | Irrigated | Lack of knowledge on Nano fertilizers and its usage and Low fertilizer use efficiency | Assessment of Nano Fertilizer (N& Zn) on growth and yield of Maize | 20 | T.O.1: 1 bag DAP (50 kg per ac) + 30 kg MOP : Top Dressing with urea 15 kg urea and 15 kg potassium at 30-35 Days after sowing | Farmers Practice | 19.0 | q/ acre | Plant height, No of cobs / plant | 34200 | 10200 | 1.42 |
| | | | | | T.O.2: 40:20:10 kg NPK kg per ac (50% N:100%P: and 100% K as a basal and 25%N at 30 DAS and 25%N at 50 DAS + Zinc Sulphate 4 kg/ac | UAHS, Shivamogga | 20.5 | q/ acre | Plant height, No of cobs / plant | 36900 | 13400 | 1.57 |
| | | | | | T.O.3: 20:20:10 kg NPK kg per ac (50% N:100%P:50%N 100%K as basal) + 50%N (4 ml/l) and ZN(2ml/l of water ) at 30 DAS and & 50 DAS | IFFCO-NBRC, Gujarath | 22.0 | q/ acre | Plant height, No of cobs / plant | 39600 | 16600 | 1.72 |

**4. C2. Feedback on technologies assessed (On going)**

| **Name of technology assessed** | **Useful characters as well as constraints of technology** | **Socio-economic as well as administrative constraints for its adoption** |
|---|---|---|
| Assessment of Nano Fertilizer (N& Zn) on growth and yield of Maize | High fertilizer use efficiency | Poor accessibility of the product |

**4.C3. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)**

| | | |
|---|---|---|
| 1. | Title of Technology Assessed | Assessment of Nano Fertilizer (N& Zn) on growth and yield of Maize |
| 2. | Performance of the Technology on specific indicators | To-3 that is IFFCO Nano Fertilizers from NBRC Gujarath was performed better with respect to yield, plant height and average cob length |
| 3. | Specific Feedback from farmers | Labour cost and total fertilizer requirement was reduced to 50 percent of the basal dose, reduces the leaching losses |
| 4. | Specific Feedback from Extension personnel and other stakeholders | It is one of the superior technology to reduce the cost of fertilizer without effecting the yield |
| 5. | Feedback to Research System based on results and feedback received | - |
| 6. | Feedback on usefulness and constraints of technology | High fertilizer use efficiency |

**4.C1.Results of Technologies Assessed**

| Crop/ enterprise | Farming situation | Problem definition | Title of OFT | No. of trials | Technology Assessed | Source of technology | Yield | Unit of yield | Observations other than yield | Gross Return Rs. / unit | Net Return Rs. / unit | BC Ratio (Gross income / Gross Cost) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Elephant foot yam | Irrigated | High planting material cost (Rs. 30 per kg) Non availability of required quantity of planting material | Assessment of propagation techniques to reduce the quantity of planting material in Elephant foot yam Amorphophallus) | 5 | T.O.1: Single corm of 1kg is used for planting Spacing: 120 cmx120 cm(6944 setts/ha Planting material required : 12 t/ha | Farmer's practice | 39.12 t/ha | t/ha | Sprouting percentage, Corm weight /plant | 519680.00 | 291180.00 | 2.02 |
| | | | | | T.O.2: Corm cuttings with portion of central bud weighing 500 g is used for planting Spacing : 90 cm X 90 cm(12,345 setts/ha) Planting material required : 5 to 6 t/ha | UHS, Bagalkot | 47.96 | t/ha | Sprouting percentage, Corm weight /plant | 671400.00 | 365800.00 | 2.19 |
| | | | | | T.O.3: Minisetts weighing 100 g is used for planting Spacing : 60 cm X 45 cm (37,000 setts/ha) Planting material required: 3.7 t/ha | KAU, Thrissur | 57.96 | t/ha | Sprouting percentage, Corm weight /plant | 695520.00 | 297020.00 | 1.74 |

**4. C2. Feedback on technologies assessed**

| Name of technology assessed | Useful characters as well as constraints of technology | Socio-economic as well as administrative constraints for its adoption |
|---|---|---|
| Assessment of propagation techniques to reduce the quantity of planting material in Elephant foot yam (Amorphophallus) | Reduction in quantity of planting material from 12 t/ha to 6 t/ha | - |

**4.C3. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)**

| | | |
|---|---|---|
| 1. | Title of Technology Assessed | Assessment of propagation techniques to reduce the quantity of planting material in Elephant foot yam (Amorphophallus) |
| 2. | Performance of the Technology on specific indicators | 50 per cent reduction in quantity of planting materials thus reducing the cost of production |
| 3. | Specific Feedback from farmers | 100 g corms required more time to harvest compared to 500 g corms and 1 kg corms |
| 4. | Specific Feedback from Extension personnel and other stakeholders | - |
| 5. | Feedback to Research System based on results and feedback received | - |
| 6. | Feedback on usefulness and constraints of technology | • Sett preparation of 100 g is cumbersome and laborious<br>• Corm yield of less than 2 kg is not preferred in the market |

**4.C1.Results of Technologies Assessed**

| Crop/ enterprise | Farming situation | Problem definition | Title of OFT | No. of trials | Technology Assessed | Source of technology | Yield | Unit of yield | Observations other than yield | Gross Return Rs. / unit | Net Return Rs. / unit | BC Ratio (Gross income/ Gross Cost) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Black pepper | | Black pepper hybrid Panniyur-1 susceptible for foot rot and does not yield to its<br><br>potential in arecanut garden | Assessment of Black Pepper varieties for higher yield under arecanut based cropping system | 5 | T.O.1: Black Pepper Hybrid. Panniyur-1, yield, Farmer's Yield: 400 kg/ha<br>Potential yield :1242 kg/ha, Recommended for border planting in arecanut garden | Farmer's practice | On going | | | | | |
| | | | | | T.O.2 : Black pepper hybrid, panniyur-8, release year – 2013, Tolerant to Phytophthora foot rot, suitable for partial shade, regular bearer, potential yield 1365 kg/ha | KAU, Kerala | | | | | | |
| | | | | | T.O.3: Black Pepper Variety<br>Arka Coorg Excel<br>Release year -2018<br>High yielding.<br>Long spikes and Bold berries.<br>Potential Yield: 3267 kg/ha | IIHR, CHES Chettali and IISR, Appangala, Karnataka | | | | | | |

**4. C2. Feedback on technologies assessed**

| Name of technology assessed | Useful characters as well as constraints of technology | Socio-economic as well as administrative constraints for its adoption |
|---|---|---|
| | | |

**4.C3. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)**

| | | |
|---|---|---|
| 1. | Title of Technology Assessed | |
| 2. | Performance of the Technology on specific indicators | |
| 3. | Specific Feedback from farmers | |
| 4. | Specific Feedback from Extension personnel and other stakeholders | |
| 5. | Feedback to Research System based on results and feedback received | |
| 6. | Feedback on usefulness and constraints of technology | |

**4.C1.Results of Technologies Assessed**

| Crop/ enterprise | Farming situation | Problem definition | Title of OFT | No. of trials | Technology Assessed | Source of technology | Yield | Unit of yield | Observations other than yield | Gross Return Rs. / unit | Net Return Rs. / unit | BC Ratio (Gross income/ Gross Cost) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Watermelon | | Improper nutrient management coupled with low fertilizer use efficiency | Assessment of Nutritional requirement in water melon for Coastal Karnataka | 3 | T.O.1: Appln. of FYM 2 tonnes, DAP:150kg , ammonium sulphate 50 kg. Urea 100 kg /ha. | Farmer's Practice | Ongoing | | | | | |
| | | | | | T.O.2 RDF: 70:25:25 kg ha-1, FYM @ 20-25 t $ha^{-1}$ as basal dose along with half dose of N (35 kg) and full doses of $P_2O_5$ (25 kg) and $K_2O$ (25 kg). The remaining dose of N (35 kg) can be applied in two equal splits at the time of vining and full blooming. | KAU, Thrissur | | | | | | |
| | | | | | T.O.3: RDF: 55:55:55 kg $ha^{-1}$. Apply FYM 20 t/ha, P 55 kg and K 55 kg as basal and N 55 kg/ha 30 days after sowing. Application of Azospirillum and Phosphobacteria @ 2 kg/ha and Pseudomonoas @ 2.5 | TNAU, Coimbatore | | | | | | |

| Crop/ enterprise | Farming situation | Problem definition | Title of OFT | No. of trials | Technology Assessed | Source of technology | Yield | Unit of yield | Observations other than yield | Gross Return Rs. / unit | Net Return Rs. / unit | BC Ratio (Gross income/ Gross Cost) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| | | | | | kg/ha along with FYM 50 kg and Neem cake 100 kg before last ploughing. Spraying of Ethrel 250 ppm (2.5 ml/10 lit of water) 4 times at weekly intervals commencing from 15 days after sowing | | | | | | | |
| | | | | | T.O.4: RDF: 100:88:100 kg ha-1. Apply FYM 25 t/ha, Split application of Nitrogen @ 30 DAS(days after sowing) | UAHS RDF for Watermelon | | | | | | |

**4. C2. Feedback on technologies assessed**

| **Name of technology assessed** | **Useful characters as well as constraints of technology** | **Socio-economic as well as administrative constraints for its adoption** |
|---|---|---|
| | | |

**4.C3. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)**

| | | |
|---|---|---|
| 1. | Title of Technology Assessed | |
| 2. | Performance of the Technology on specific indicators | |
| 3. | Specific Feedback from farmers | |
| 4. | Specific Feedback from Extension personnel and other stakeholders | |
| 5. | Feedback to Research System based on results and feedback received | |
| 6. | Feedback on usefulness and constraints of technology | |

**4.C1.Results of Technologies Assessed**

| Crop/ enterprise | Farming situation | Problem definition | Title of OFT | No. of trials | Technology Assessed | Source of technology | Yield | Unit of yield | Observations other than yield | Gross Return Rs. / unit | Net Return Rs. / unit | BC Ratio (Gross income/ Gross Cost) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Coconut | Rabi | It is an Invasive pest and there is no package of practice for management of the pest | Assessing the Management Practices of Rugose Spiralling Whitefly in Coconut | 6 | T.O.1: Water spray | Farmers Practice | On going | | | | | |
| | | | | | T.O.2 Application of 1% starch solution on leaflets Installation of yellow sticky traps on the palm trunk Spray of Neem oil 0.5% (5ml/lit.). | CPCRI, Kasargod | | | | | | |
| | | | | | T.O.3: Foliar application of (2 sprays) | ICAR-NBAIR, | | | | | | |

| Crop/ enterprise | Farming situation | Problem definition | Title of OFT | No. of trials | Technology Assessed | Source of technology | Yield | Unit of yield | Observations other than yield | Gross Return Rs. / unit | Net Return Rs. / unit | BC Ratio (Gross income/ Gross Cost) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | of entomopathogenic fungus, *Isaria fumosorosea* @ $2*10^8$ spores/ ml (5g/lit. of water) @ 15 days intervals<br>Neem oil 1% (10ml/lit.) spray | Bengaluru | | | | | | |

**4. C2. Feedback on technologies assessed**

| **Name of technology assessed** | **Useful characters as well as constraints of technology** | **Socio-economic as well as administrative constraints for its adoption** |
|---|---|---|
| | | |

**4.C3. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)**

| | | |
|---|---|---|
| 1. | Title of Technology Assessed | |
| 2. | Performance of the Technology on specific indicators | |
| 3. | Specific Feedback from farmers | |
| 4. | Specific Feedback from Extension personnel and other stakeholders | |
| 5. | Feedback to Research System based on results and feedback received | |
| 6. | Feedback on usefulness and constraints of technology | |

**4.C1.Results of Technologies Assessed**

| Crop/ enterprise | Farming situation | Problem definition | Title of OFT | No. of trials | Technology Assessed | Source of technology | Yield Kg/ha | Unit of yield | Observations other than yield | Gross Return Rs. / unit | Net Return Rs. / unit | BC Ratio (Gross income/ Gross Cost) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Yardlong bean | | High incidence of Pod borer, Farmers reluctant to use chemicals at Harvesting stage Customer rejection, Low price in the Market | Assessment of Organic Management of Pod Borer in Yard long Bean | 5 | T.O.1: Quinolphos 2 ml/ltr | Farmers practice | 12150 | Kg/ha | Pod borer incidence and yield /ha | 267300 | 206300 | 3.38 |
| | | | | | T.O.2 Neem seed kernel extract (50 ml/ltr) | KAU | 12345 | Kg/ha | Pod borer incidence and yield /ha | 370350 | 305780 | 4.73 |
| | | | | | T.O.3: *NPV@250* LE/ha + (1 ml/ltr) Teepol | TNAU | 12619 | Kg/ha | Pod borer incidence and yield /ha | 378570 | 314770 | 4.93 |

**4. C2. Feedback on technologies assessed**

| Name of technology assessed | Useful characters as well as constraints of technology | Socio-economic as well as administrative constraints for its adoption |
|---|---|---|
| Assessment of Organic Management of Pod Borer in Yard long Bean | High market preference and environment friendly | Non availability of Neem seed as well as NPV in coastal zone |

**4.C3. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)**

| | | |
|---|---|---|
| 1. | Title of Technology Assessed | Assessment of Organic Management of Pod Borer in Yard long Bean |
| 2. | Performance of the Technology on specific indicators | NPV 250 LE /ha performed better in terms of reduction in pod borer incidence and increase in yield |
| 3. | Specific Feedback from farmers | Non availability of Neem seed as well as NPV in coastal zone |
| 4. | Specific Feedback from Extension personnel and other stakeholders | Availability of NPV can be enhanced in coastal region |
| 5. | Feedback to Research System based on results and feedback received | Improved strains of NPV to manage pod borer in yard long bean may be developed |
| 6. | Feedback on usefulness and constraints of technology | Eco-friendly, non hazardous to the growers as well as consumers |

**4.C1.Results of Technologies Assessed**

| Crop/ enterprise | Farming situation | Problem definition | Title of OFT | No. of trials | Technology Assessed | Source of technology | Yield | Unit of yield | Observations other than yield | Gross Return Rs. / unit | Net Return Rs. / unit | BC Ratio (Gross income/ Gross Cost) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Bamboo | | Wild Animal Menace, fallow lands due to absentee land owners | Assessment of Bamboo for Economical and Ecological benefits in fallow lands of Udupi district. | 5 | T.O.1: Growing of Burma Bamboo | UAHS, Shivamoga and College of Forestry, Ponnampet | On going | | | | | |
| | | | | | T.O.2 : Growing of Seeme Bamboo | | | | | | | |
| | | | | | T.O.3: Growing of Tulda Bamboo | | | | | | | |
| | | | | | T.O.4: Growing of Sweet Bamboo | | | | | | | |

**4. C2. Feedback on technologies assessed**

| **Name of technology assessed** | **Useful characters as well as constraints of technology** | **Socio-economic as well as administrative constraints for its adoption** |
|---|---|---|
| | | |

**4.C3. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)**

| | | |
|---|---|---|
| 1. | Title of Technology Assessed | |
| 2. | Performance of the Technology on specific indicators | |
| 3. | Specific Feedback from farmers | |
| 4. | Specific Feedback from Extension personnel and other stakeholders | |
| 5. | Feedback to Research System based on results and feedback received | |
| 6. | Feedback on usefulness and constraints of technology | |

**4.C1.Results of Technologies Assessed**

| Crop/ enterprise | Farming situation | Problem definition | Title of OFT | No. of trials | Technology Assessed | Source of technology | Yield | Unit of yield | Observations other than yield | Gross Return Rs. / unit | Net Return Rs. / unit | BC Ratio (Gross income/ Gross Cost) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Fish | | Non availability of high value, fast growing and hardy fish species which can fetch a good local market price and unwanted trash fish population in earthen ponds which are affecting the growth and survival rate of carps | Assessment of growth performance of Murrels in trash fish infested coastal farm ponds | 4 | T.O.1: Culture of Carps in farm ponds @ 10000/ha in polyculture system | Farmers practice | On going | | | | | |
| | | | | | T.O.2: Culture of Giant murrel @15000/ha in mono culture system | CIFRI, Barakpur | | | | | | |
| | | | | | T.O.3: Culture of Striped murrel @10000/ha in mono culture system | CIFA Bhubaneshwar | | | | | | |

**4. C2. Feedback on technologies assessed**

| Name of technology assessed | Useful characters as well as constraints of technology | Socio-economic as well as administrative constraints for its adoption |
|---|---|---|
| | | |

**4.C3. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)**

| | | |
|---|---|---|
| 1. | Title of Technology Assessed | |
| 2. | Performance of the Technology on specific indicators | |
| 3. | Specific Feedback from farmers | |
| 4. | Specific Feedback from Extension personnel and other stakeholders | |
| 5. | Feedback to Research System based on results and feedback received | |
| 6. | Feedback on usefulness and constraints of technology | |

**4.D1. Results of Technologies Refined**

| Crop/ enterprise | Farming situation | Problem definition | Title of OFT | No. of trials | Technology Refined | Source of technology | Yield | Unit of yield | Observations other than yield | Gross Return Rs. / unit | Net Return Rs. / unit | BC Ratio (Gross income/ Gross Cost) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| | | | | | T.O.1 (Farmers practice) | | | | | | | |
| | | | | | T.O.2 | | | | | | | |
| | | | | | T.O.3 | | | | | | | |
| | | | | | | | | | | | | |

**4. D2. Feedback on technologies refined**

| **Name of technology refined** | **Useful characters as well as constraints of technology** | **Socio-economic as well as administrative constraints for its adoption** |
|---|---|---|
| | | |

**4.D.2. Details of Technologies refined:**

1. Title of Technology Refined
2. Performance of the Technology on specific indicators
3. Specific Feedback from farmers
4. Specific Feedback from Extension personnel and other stakeholders
5. Feedback to Research System based on results/feedback received
6. Feedback on usefulness and constraints of technology

## PART V - FRONTLINE DEMONSTRATIONS

**5.A. Summary of FLDs implemented**

| Sl. No. | Category | Farming Situation | Season | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Area (ha) | | Farmers (No.) | | Farmers (No.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Proposed | Actual | SC/ ST | Others | Small/ Marginal | Others |
| | | | | | | | | | | | | | | |
| | Oilseeds | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | Pulses | | | | | | | | | | | | | |
| 1 | | Rainfed | Rabi/ Summer | Blackgram | LBG 791 | - | Paddy Fallow land utilization | LBG 791 variety demonstration<br>Soil test based fertilizer Application<br>IPM practices demonstration | 4 | 4 | - | 13 | 13 | - |
| 2 | | Rainfed | Rabi/ Summer | Blackgram | - | - | Mechanization | Line sowing using UAHS, Power tiller operated Seed cum fertilizer drill<br>Soil test based fertilizer Application<br>IPM practices demonstration | 10 | 10 | - | 25 | 25 | - |
| | Cereals | | | | | | | | | | | | | |
| 3 | | Irrigated | Rabi | Paddy | Jyothi | - | Resource conservation technology | Introduction of DSR method of paddy<br>Seed cum fertilizer drill | 12.5 | 12.5 | 6 | 14 | 20 | - |

| Sl. No. | Category | Farming Situation | Season | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Area (ha) | | Farmers (No.) | | Farmers (No.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Proposed | Actual | SC/ ST | Others | Small/ Marginal | Others |
| | | | | | | | | Post emergent Herbicides RDF based on Soil test | | | | | | |
| 4 | | Rainfed | Kharif | Red rice paddy | Sahyadri Panchamuki | - | Flood tolerent variety | Introduction of high yielding red rice paddy variety in lowland with submerge tolerance | 4.4 | 4.4 | 3 | 8 | 11 | - |
| 5 | | Rainfed | Kharif | Paddy | MO-4 | - | Weed management | Lime application<br>Pre emergent Herbicide (Pendimethalin 38.7CS)<br>Post emergent Herbicide (Bispyribac Sodium 10% SC) | 4.8 | 4.8 | 4 | 8 | 12 | - |
| | Millets | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 6 | Vegetables | Homestead | Kharif | Spine gourd | Arka Bharath | - | ICM | Introduction of high yielding variety, Arka Bharath released from CHES, Chettahalli<br>Drenching of AMC @25 g/L at seedling stage<br>Use of fruit fly trap<br>Creating awareness about nutritional benefits in media | 0.2 | 0.2 | 3 | 7 | 10 | - |
| 7 | | Irrigated | Summer | Water melon | - | NS-295 | ICM | Drenching of Sahyadri Thrishool (AMC) @ 20g/L (2-3 leaf stage) | 1 | 1 | - | 10 | 10 | - |

| Sl. No. | Category | Farming Situation | Season | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Area (ha) | | Farmers (No.) | | Farmers (No.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Proposed | Actual | SC/ ST | Others | Small/ Marginal | Others |
| | | | | | | | | Yellow and Blue sticky traps (8 traps each / acre)<br>Fruit fly traps 10 traps/ acre ( Flowering stage)<br>IIHR Neem soap 7g/L (Based on ETL of pests)<br><br>Spraying of Ethrel 250 ppm at 2 leaf and 5 leaf stage to induce female flowers. (Spray volume 200 litres per Acre)<br>Spraying vegetable special @ 1g/L at 20 and 40 DAS to enhance fruit set<br>Dipping of watermelon fruits (at lemon size fruit stage) in 20 ppm GA to increase the quality and size of fruits.<br>Installation of Honey Bee boxes @ 1 per acre to enhance pollination and fruit set | | | | | | |
| 8 | | Irrigated | Rabi | Ridgeg ourd | Local | - | IPM | Soil application of neem cake @ 250 kg/ha.<br>Collection and destruction of affected fruits.<br>Erect Cue-lure trap 10 per acre to attract and trap | 3 | 3 | - | 5 | 5 | - |

| Sl. No. | Category | Farming Situation | Season | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Area (ha) | | Farmers (No.) | | Farmers (No.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Proposed | Actual | SC/ ST | Others | Small/ Marginal | Others |
| | | | | | | | | male fruit flies.<br>Sprays of Azadirachtin (10000ppm) @ 2ml/ lit. Once in 10 days after flowering.<br>Spray Fipronil @ 1.5 ml/L. | | | | | | |
| 9 | | Irrigated | Rabi | Brinjal | Mattu gulla | - | IPM | Applying of Neem cake @ 250 kg/ ha<br>Clipping of damaged shoots and fruits with larva<br>Installation of Pheromone traps @12/ha<br>Spraying of Neem oil (Azadirachtin 1.0% EC 10000 ppm) @ 2 ml/lit. from one month after planting @ 15 days interval<br>Spraying of *Bt* formulation @ 1ml/lit. once in 10 days at peak flowering for two times. | 4.3 | 4.3 | - | 10 | 10 | - |
| | | | | | | | | | | | | | | |
| 10 | Flowers | Homestead | Rabi | Udupi Jasmine | Udupi malli ge | - | ICM | Time of Pruning : November, at a height of 50 cm from ground level<br>INM : (FYM 10 kg/ plant) | 0.2 | 0.2 | 1 | 9 | 10 | - |

| Sl. No. | Category | Farming Situation | Season | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Area (ha) | | Farmers (No.) | | Farmers (No.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Proposed | Actual | SC/ ST | Others | Small/ Marginal | Others |
| | | | | | | | | RDF 120:240:240 g/plant in two splits<br>Foliar spray of micro nutrient $ZnSO_4$ 0.25% + $MgSO_4$ 0.5%<br>Application of Neem cake 0.5 kg per plant | | | | | | |
| | | | | | | | | | | | | | | |
| | Ornamental | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | Fruit | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | Spices and condiments | | | | | | | | | | | | | |
| 11 | | Rainfed | Kharif | Black pepper | Panniyur-1 | - | INM | Soil test based lime application (500 gram per plant)<br>FYM : 10 kg per plant<br>Neem cake : 1 kg/ plant<br>Azospirilum: 100 gram per plant<br>Zinc sulphate : 0.25 per | 2 | 2 | - | 10 | 10 | - |

| Sl. No. | Category | Farming Situation | Season | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Area (ha) | | Farmers (No.) | | Farmers (No.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Proposed | Actual | SC/ ST | Others | Small/ Marginal | Others |
| | | | | | | | | cent foliar spray per plant<br>Magnesium sulphate : 0.5 kg per plant<br>RDF : 100: 40:140 grams per plant | | | | | | |
| 12 | | Rainfed | Kharif | Black pepper | Panniyur-1 | - | IDM | Removal of affected and dead vines<br>Spraying of Potassium Phosphonate 3ml per lit. during June and September<br>Drenching of Microbial Consortium (Sahyadri Thrishool) 20 gm per lit.( 5-6 lit per plant) during June and October<br>Soil application *Trichoderma viridae* (1Kg) enriched with FYM or Neem cake (100 Kg) during June<br>Provide good drainage | 2 | 2 | - | 5 | 5 | - |
| | Commercial | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | Medicinal and | | | | | | | | | | | | | |

| Sl. No. | Category | Farming Situation | Season | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Area (ha) | | Farmers (No.) | | Farmers (No.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Proposed | Actual | SC/ ST | Others | Small/ Marginal | Others |
| | aromatic | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | Fodder | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | Plantation | | | | | | | | | | | | | |
| 13 | | Rainfed | Kharif | Coconut | WCT | - | INM | Soil test based lime application (2 kg /plant)<br>FYM : 50 kg per plant<br>Borax : 50 gram / plant<br>Neem cake : 5 kg per plant<br>Magnesium sulphate : 0.5 kg per plant (based on soil test values)<br>RDF : 400:320:1200 grams NPK per plant (2 splits for one year ) | 2 | 2 | - | 10 | 10 | - |
| 14 | | Rainfed | Kharif | Arecanut | Mangala | - | INM | Soil test based lime application (0.5 kg per plant )<br>FYM : 20 kg per plant<br><br>Borax : 20 grams / plant<br>Neem cake : 3kgs per plant<br>Magnesium sulphate : 0.5 kg per plant (based on soil | 2 | 2 | - | 10 | 10 | - |

| Sl. No. | Category | Farming Situation | Season | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Area (ha) | | Farmers (No.) | | Farmers (No.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Proposed | Actual | SC/ ST | Others | Small/ Marginal | Others |
| | | | | | | | | test values)<br>RDF : 100:40:140 grams NPK per plant (2 splits for one year ) | | | | | | |
| 15 | | Irrigated | Perennial | Coconut | - | - | IPDM | Treating manure pits of livestock farms and vermicompost units with *Metarhizium* 250 g in 750 ml and pouring in the pit and repeated after 6 months (5kg/3 ton pit for 2 splits). Rapping of Net at the crown region, Plastic pipe trap | Campaign mode | - | - | 25 | 25 | - |
| | | | | | | | | | | | | | | |
| | Fibre | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | Dairy | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | Poultry | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | Rabbitry | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| Sl. No. | Category | Farming Situation | Season | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Area (ha) | | Farmers (No.) | | Farmers (No.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Proposed | Actual | SC/ ST | Others | Small/ Marginal | Others |
| | Piggery | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | Sheep and goat | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | Duckery | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | Common carps | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | Mussels | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 16 | Ornamental fishes | | | Fish | | | | Supplementary feeding of Catla, Rohu and Common carp in Poly culture system @ 2-3% | 1.75 | 1.75 | - | 6 | 6 | - |
| 17 | | | | Fish | | | | Application of Lime @ 100 kg/acre, regular water quality management | 1 | 1 | - | 4 | 4 | - |
| 18 | | | | Fish | | | | Farmers Practice = Application of Kerosene oil @ 25-50 lit per hectare before stocking. | 2 | 2 | - | 4 | 4 | |

| Sl. No. | Category | Farming Situation | Season | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Area (ha) | | Farmers (No.) | | Farmers (No.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Proposed | Actual | SC/ ST | Others | Small/ Marginal | Others |
| | | | | | | | | Technology Option I = Application of Oil Emulsion-Soap (56:18 kg per hectare) before stocking.<br>Farmers Practice = GOC: RB 1: 1<br>The fish of treatment ponds feeding with carp starter ll to compare the performance with fish of control ponds. Both treatment and control fish were fed at the rate of !O% of body weight for 2weeks followed by 5 % of body weight for another 2 weeks. | | | | | | |
| | Oyster mushroom | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | Button mushroom | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | Vermicompost | | | | | | | | | | | | | |

| Sl. No. | Category | Farming Situation | Season | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Area (ha) | | Farmers (No.) | | Farmers (No.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Proposed | Actual | SC/ ST | Others | Small/ Marginal | Others |
| | | | | | | | | | | | | | | |
| | Seri culture | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | Api culture | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | Implements | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | Others (specify) | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

**5.A. 1. Soil fertility status of FLDs plots, if analysed**

| Sl. No | Category | Farming Situation | Season and Year | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Season and year | Status of soil | | | Previous crop grown |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | N | P | K | |
| | | | | | | | | | | | | | |
| | Oilseeds | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | Pulses | | | | | | | | | | | | |
| 1 | | Rainfed | Rabi/Summer | Blackgram | LBG 791 | - | Paddy Fallow land utilization | LBG 791 variety demonstration<br>Soil test based fertilizer Application<br>IPM practices demonstration | Rabi/Summer | M | H | L | Paddy |
| 2 | | Rainfed | Rabi/Summer | Blackgram | - | - | Mechanization | Line sowing using UAHS, Power tiller operated Seed cum fertilizer drill<br>Soil test based fertilizer Application<br>IPM practices demonstration | Rabi/Summer | M | H | L | Paddy |
| | Cereals | | | | | | | | | | | | |
| 3 | | Irrigated | Rabi-2021 | Paddy | Jyothi | - | Resource conservation technology | Introduction of DSR method of paddy<br>Seed cum fertilizer drill<br>Post emergent Herbicides<br>RDF based on Soil test | Rabi-2021 | M | H | L | Paddy |
| 4 | | Rainfed | Kharif | Redrice | Sahyadri Panchamuki | - | Flood tolerent variety | Introduction of high yielding red rice paddy variety in lowland with submerge tolerance | Kharif | M | H | L | Paddy |

| Sl. No | Category | Farming Situation | Season and Year | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Season and year | Status of soil | | | Previous crop grown |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | N | P | K | |
| 5 | | Rainfed | Kharif | Paddy | MO-4 | - | Weed management | Lime application<br>Pre emergent Herbicide (Pendimethalin 38.7CS)<br>Post emergent Herbicide (Bispyribac Sodium 10% SC) | Kharif | M | H | L | Paddy |
| | Millets | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 6 | Vegetables | Homestead | Kharif-2021 | Spine gourd | Arka Bharath | - | ICM | Introduction of high yielding variety, Arka Bharath released from CHES, Chettahalli<br>Drenching of AMC @25 g/L at seedling stage<br>Use of fruit fly trap<br>Creating awareness about nutritional benefits in media | Kharif - 2021 | M | L | M | Yard long bean |
| 7 | | Irrigated | Summer 2022 | Watermelon | - | NS 295 | ICM | Drenching of Sahyadri Thrishool (AMC) @ 20g/L (2-3 leaf stage)<br>Yellow and Blue sticky traps (8 traps each / acre)<br>Fruit fly traps 10 traps/ acre ( Flowering stage)<br>IIHR Neem soap 7g/L (Based on ETL of pests)<br><br>Spraying of Ethrel 250 ppm at 2 leaf and 5 leaf stage to induce female | Summber 2022 | M | H | L | Yard long bean |

| Sl. No | Category | Farming Situation | Season and Year | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Season and year | Status of soil | | | Previous crop grown |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | N | P | K | |
| | | | | | | | | flowers. (Spray volume 200 litres per Acre)<br>Spraying vegetable special @ 1g/L at 20 and 40 DAS to enhance fruit set<br>Dipping of watermelon fruits (at lemon size fruit stage) in 20 ppm GA to increase the quality and size of fruits.<br>Installation of Honey Bee boxes @ 1 per acre to enhance pollination and fruit set | | | | | |
| 8 | | Irrigated | Rabi-2021 | Ridgegourd | Local | - | IPM | Soil application of neem cake @ 250 kg/ha.<br>Collection and destruction of affected fruits.<br>Erect Cue-lure trap 10 per acre to attract and trap male fruit flies.<br>Sprays of Azadirachtin (10000ppm) @ 2ml/ lit. Once in 10 days after flowering.<br><br>Spray Fipronil @ 1.5 ml/L. | Rabi-2021 | M | H | L | Paddy |
| 9 | | Irrigated | Rabi-2021 | Brinjal | Local | - | IPM | Applying of Neem cake @ 250 kg/ ha<br>Clipping of damaged shoots | Rabi-2021 | M | H | L | Paddy |

| Sl. No | Category | Farming Situation | Season and Year | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Season and year | Status of soil | | | Previous crop grown |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | N | P | K | |
| | | | | | | | | and fruits with larva<br>Installation of Pheromone traps @12/ha<br>Spraying of Neem oil (Azadirachtin 1.0% EC 10000 ppm) @ 2 ml/lit. from one month after planting @ 15 days interval<br>Spraying of *Bt* formulation @ 1ml/lit. once in 10 days at peak flowering for two times. | | | | | |
| | Flowers | | | | | | | | | | | | |
| 10 | | Homestead | Rabi 2021 | Udupi Jasmine | Udupi malli ge | - | ICM | Time of Pruning : November, at a height of 50 cm from ground level<br>INM : (FYM 10 kg/ plant) RDF 120:240:240 g/plant in two splits<br>Foliar spray of micro nutrient $ZnSO_4$ 0.25% + $MgSO_4$ 0.5%<br>Application of Neem cake 0.5 kg per plant | Rabi 2021 | M | H | L | Jasmine |
| | Ornamental | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | Fruit | | | | | | | | | | | | |

| Sl. No | Category | Farming Situation | Season and Year | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Season and year | Status of soil | | | Previous crop grown |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | N | P | K | |
| | | | | | | | | | | | | | |
| 11 | Spices and condiments | Rain fed | Rabi 2020 | Black pepper | Panniyur-1 | - | INM | Soil test based lime application (500 gram per plant)<br>FYM : 10 kg per plant<br>Neem cake : 1 kg/ plant<br>Azospirilum: 100 gram per plant<br>Zinc sulphate : 0.25 per cent foliar spray per plant<br>Magnesium sulphate : 0.5 kg per plant<br>RDF : 100: 40:140 grams per plant | Rabi 2020 | L | L | L | Black pepper |
| 12 | | Rain fed | Kharif-2021 | Black pepper | Panniyur-1 | - | IDM | Removal of affected and dead vines<br>Spraying of Potassium Phosphonate 3ml per lit. during June and September<br>Drenching of Microbial Consortium (Sahyadri Thrishool) 20 gm per lit.( 5-6 lit per plant) during June and October<br>Soil application *Trichoderma viridae* (1Kg) enriched with FYM or Neem cake (100 Kg) during June<br>Provide good drainage | Kharif-2021 | M | H | L | Black pepper |

| Sl. No | Category | Farming Situation | Season and Year | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Season and year | Status of soil | | | Previous crop grown |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | N | P | K | |
| | | | | | | | | | | | | | |
| | Commercial | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | Medicinal and aromatic | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | Fodder | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | Plantation | | | | | | | | | | | | |
| 13 | | Rain fed | Rabi 2020 | Coconut | WCT | - | INM | Soil test based lime application (2 kg /plant)<br>FYM : 50 kg per plant<br>Borax : 50 gram / plant<br>Neem cake : 5 kg per plant<br>Magnesium sulphate : 0.5 kg per plant (based on soil test values)<br>RDF : 400:320:1200 grams NPK per plant (2 splits for one year ) | Rabi 2020 | M | M | L | Coconut |
| 14 | | Rain fed | Rabi 2020 | Arecanut | Mangala | - | INM | Soil test based lime application (0.5 kg per plant<br>FYM : 20 kg per plant | Rabi 2020 | H | M | L | Arecanut |

| Sl. No | Category | Farming Situation | Season and Year | Crop | Variety/ breed | Hybrid | Thematic area | Technology Demonstrated | Season and year | Status of soil | | | Previous crop grown |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | N | P | K | |
| | | | | | | | | Borax : 20 grams / plant<br>Neem cake : 3kgs per plant<br>Magnesium sulphate : 0.5 kg per plant (based on soil test values)<br>RDF : 100:40:140 grams NPK per plant (2 splits for one year ) | | | | | |
| 15 | | Irrigated | Perennial | Coconut | - | - | IPDM | Treating manure pits of livestock farms and vermicompost units with *Metarhizium* 250 g in 750 ml and pouring in the pit and repeated after 6 months (5kg/3 ton pit for 2 splits). Rapping of Net at the crown region, Plastic pipe trap | Perennial | L | M | L | Coconut |
| | Fibre | | | | | | | | | | | | |

**5.B. Results of FLDs**

**5.B.1. Crops**

| Crop | Name of the technology demonstrated | Variety | Hybrid | Farming situation | No. of Demo. | Area (ha) | Yield (q/ha) | | | | % Increase | Economics of demonstration (Rs./ha) | | | Economics of Check (Rs./ha) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Demo | | | Check | | Gross Return | Net Return | BCR | Gross Return | Net Return | BCR |
| | | | | | | | H | L | A | | | | | | | | |
| Oilseeds | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Pulses | | | | | | | | | | | | | | | | | |
| | Demonstration of Black gram (LBG 791 Var.) under Residual Moisture situation | LBG 791 | - | Rainfed | 13 | 4 | 5.75 | 5.12 | 543 | 375 | 45.6 | 29280 | 11280 | 2.59 | 18390 | 9525 | 1.93 |
| | Demonstration of UAHS, Power tiller operated Seed cum fertilizer drill in Black gram | - | - | Rainfed | 25 | 10 | 4.66 | 4.12 | 439 | 360 | 21.94 | 26340 | 11060 | 1.38 | 16340 | 8900 | 0.83 |
| Cereals | | | | | | | | | | | | | | | | | |
| | Introduction of DSR method of Paddy cultivation in coastal region to address the labour issue | Jyothi | - | Irrigated | 20 | 12.5 | | | 3852 | 3456 | 11.45 | 61632 | 32792 | 2.13 | 55296 | 15096 | 1.37 |

| Crop | Name of the technology demonstrated | Variety | Hybrid | Farming situation | No. of Demo. | Area (ha) | Yield (q/ha) | | | | % Increase | Economics of demonstration (Rs./ha) | | | Economics of Check (Rs./ha) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Demo | | | Check | | Gross Return | Net Return | BCR | Gross Return | Net Return | BCR |
| | | | | | | | H | L | A | | | | | | | | |
| | Demonstration of Low land submerged tolerant Red rice Paddy variety Shayadri Panchamuki in coastal zone during kharif season | Sahyadri Panchamuki | - | Rainfed | 11 | 4 | 31.50 | 28.50 | 29.50 | 27.85 | 5.9 | 53100 | 28447 | 2.15 | 50130 | 25477 | 2.03 |
| | Management of *Vaucheria* Species Weed and other Weed Species in *kharif* season Paddy of Udupi district | MO-4 | | Rainfed | 12 | 4 | 3300 | 2950 | 3250 | 2985 | 8.8 | 58500 | 27250 | 1.87 | 53730 | 19170 | 1.55 |
| Millets | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Vegetables | | | | | | | | | | | | | | | | | |
| | Demonstration of Spine gourd variety - Arka Bharath | Arka Bharath | - | Homestead | 10 | 0.2 | 118 | 103 | 110.5 | 91.25 | 21.09 | 607750 | 383950 | 2.71 | 419750 | 251650 | 2.05 |
| | Demonstration on Management of Fruit fly in Ridge gourd | Local | - | Irrigated | 5 | 3 | 96.5 | 88.75 | 92.5 | 77.30 | 14.05 | 115625 | 63812.50 | 2.23 | 96625 | 47937.50 | 1.99 |

| Crop | Name of the technology demonstrated | Variety | Hybrid | Farming situation | No. of Demo. | Area (ha) | Yield (q/ha) | | | | % Increase | Economics of demonstration (Rs./ha) | | | Economics of Check (Rs./ha) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Demo | | | Check | | Gross Return | Net Return | BCR | Gross Return | Net Return | BCR |
| | | | | | | | H | L | A | | | | | | | | |
| | Demonstration of Bio-intensive Management of Brinjal Shoot and Fruit borer, *Leucinodes orbonalis* | Mattugulla | - | Irrigated | 10 | 4.3 | 305.5 | 247.5 | 276.9 | 223.4 | 19.32 | 2492100 | 2338125 | 16.19 | 2010600 | 1871398.75 | 14.44 |
| | ICM in Watermelon | - | NS-295 | Irrigated | 10 | 1 | 453.50 | 432.60 | 440.90 | 348.60 | 26.35 | 473350 | 381773.30 | 4.25 | 348600 | 271320.20 | 3.98 |
| Flowers | | | | | | | | | | | | | | | | | |
| | Demonstration of Pruning and INM to induce off season flowering in Udupi Jasmine | Udupi mallige | - | Homestead | 10 | 0.2 | 7.95 | 7.25 | 7.60 | 6.84 | 11.69 | 326200 | 185200 | 2.44 | 224600 | 108200 | 1.92 |
| Ornamental | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Fruit | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Spices and condiments | | | | | | | | | | | | | | | | | |
| | Integrated Nutrient Management in Black Pepper | Panniyur-1 | - | Rainfed | 10 | 2 | On going | | | | | | | | | | |

| Crop | Name of the technology demonstrated | Variety | Hybrid | Farming situation | No. of Demo. | Area (ha) | Yield (q/ha) | | | | % Increase | Economics of demonstration (Rs./ha) | | | Economics of Check (Rs./ha) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Demo | | | Check | | Gross Return | Net Return | BCR | Gross Return | Net Return | BCR |
| | | | | | | | H | L | A | | | | | | | | |
| | Demonstration on Management of quick wilt in black pepper | Panniyur-1 | - | Rainfed | 5 | 2 | 14.20 | 11.33 | 12.76 | 9.38 | 26.49 | 685212 | 595539 | 6.64 | 503706 | 427750 | 5.63 |
| | | | | | | | | | | | | | | | | | |
| Commercial | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Fibre crops like cotton | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Medicinal and aromatic | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Fodder | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Plantation | | | | | | | | | | | | | | | | | |
| | Integrated Nutrient Management in Coconut | WCT | - | Rainfed | 10 | 2 | On going | | | | | | | | | | |
| | Integrated Nutrient Management In Arecanut | Mangala | - | Rainfed | 10 | 2 | On going | | | | | | | | | | |
| | Integrated Management of Rhinoceros Beetle Coconut | - | - | Irrigated | 25 | Campaign mode | On going | | | | | | | | | | |

| Crop | Name of the technology demonstrated | Variety | Hybrid | Farming situation | No. of Demo. | Area (ha) | Yield (q/ha) | | | | % Increase | Economics of demonstration (Rs./ha) | | | Economics of Check (Rs./ha) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Demo | | | Check | | Gross Return | Net Return | BCR | Gross Return | Net Return | BCR |
| | | | | | | | H | L | A | | | | | | | | |
| Fibre | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Others pl.specify | | | | | | | | | | | | | | | | | |

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

H – Highest Yield, L – Lowest Yield A – Average Yield

**Data on additional parameters other than yield (viz., reduction of percentage in weed/pest/diseases etc.)**

| **Data on other parameters in relation to technology demonstrated** | | |
|---|---|---|
| **Parameter with unit** | **Demo** | **Check** |
| | | |

## 5. B2. Feedback on technologies demonstrated

| Name of technology demonstrated | Useful characters as well as constraints of technology | Socio-economic as well as administrative constraints for its adoption |
|---|---|---|
| Spinegourd | Very high market demand throughout the season and high remunerative crop | Requires artificial Pollination and it is laborious |
| Udupi Jasmine | Off season production is increased due to pruning | The farmers believe pruning the plants reduces yield and the plants die |
| Vaucheria weed management | Pre emergent herbicide pendimethalin 38.7 CS @3ml/ltr followed by early post emergent or post emergent spray of bispyribac sodium 10% SC has recorded the weed control efficiency of 93% | Non availability of herbicides at right time |
| Flood tolerant red rice paddy variety sahyadri panchamuki | Variety Sahyadri panchamuki recorded higher yield with 10-12 days early harvest | Recently released variety and non availability of seed in large quantity |

**5.B.3. Livestock and related enterprises – Nil-**

| Type of livestock | Name of the technology demonstrated | Breed | No. of Demo | No. of Units | Name of the parameter with unit | Yield (kg/animal) | | | | % Increase | *Economics of demonstration Rs./unit) | | | *Economics of check (Rs./unit) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Demo | | | Check if any | | Gross Return | Net Return | ** BCR | Gross Return | Net Return | ** BCR |
| | | | | | | H | L | A | | | | | | | | |
| Dairy | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Poultry | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Rabbitry | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Pigerry | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Sheep and goat | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Duckery | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= Gross Return/Gross Cost

**Data on additional parameters other than yield (viz., reduction of percentage diseases, increase in conceiving rate, inter-calving period etc.)**

| **Data on other parameters in relation to technology demonstrated** | | |
|---|---|---|
| **Parameter with unit** | **Demo** | **Check if any** |
| | | |

**5. B4. Feedback on livestock technologies demonstrated**

| **Name of livestock technology demonstrated** | **Useful characters as well as constraints of technology** | **Socio-economic as well as administrative constraints for its adoption** |
|---|---|---|
| | | |

**5.B.5. Fisheries**

| Type of Breed | Name of the technology demonstrated | Breed | No. of Demo | Units/ Area acre | Name of the parameter with unit | Yield (q/ha) | | | | % Increase | *Economics of demonstration (Rs./unit) | | | *Economics of check (Rs./unit) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Demo | | | Check if any | | Gross Return | Net Return | ** BCR | Gross Return | Net Return | ** BCR |
| | | | | | | H | L | A | | | | | | | | |
| Common carps | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Mussels | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Ornamental fishes | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Others (pl.specify) Fish | Demonstration of aquatic insects Control and nutritional balancing by carp nursery feed developed by ICAR – CIFA, Bhubaneswar | | 5 | 6.25 | | 18.65 | 16.95 | 17.80 | 6.11 | 191.33 | 890100 | 525159 | 2.44 | 305500 | 103870 | 1.51 |
| Fish | Feed based culture of Carps in farm ponds | | 6 | 1.75 | | | | | | | | | | | | |

| Fish | Initial length (cm) | | Initial weight | | Length | | Weight | |
|---|---|---|---|---|---|---|---|---|
| | FP | Demo | FP | Demo | FP | Demo | FP | Demo |
| Catla | 4.6 | 4.6 | 1.78 | 1.78 | 19.7 | 28.4 | 350 | 623 |
| Rohu | 3.1 | 3.1 | 1.33 | 1.33 | 16.1 | 26.2 | 215 | 510 |
| Common carp | 2.6 | 2.6 | 0.59 | 0.59 | 12.3 | 18.5 | 150 | 265 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fish | Management of water quality in carp culture ponds | | 4 | 1 | **Fish** | **Initial length (cm)** | | **Initial weight** | | **Length** | | **Weight** | |
| | | | | | | FP | Demo | FP | Demo | FP | Demo | FP | Demo |
| | | | | | Catla | 3.9 | 3.9 | 1.5 | 1.5 | 18.9 | 27.8 | 290 | 650 |
| | | | | | Rohu | 3.6 | 3.6 | 1.10 | 1.10 | 15.20 | 24.0 | 185 | 530 |
| | | | | | Common carp | 2.4 | 2.4 | 0.50 | 0.50 | 13.10 | 17.5 | 145 | 275 |

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

**Data on additional parameters other than yield (viz., reduction of percentage diseases, effective use of land etc.)**

| **Data on other parameters in relation to technology demonstrated** | | |
|---|---|---|
| **Parameter with unit** | **Demo** | **Check if any** |
| | | |

**5. B6. Feedback on fisheries technologies demonstrated**

| **Name of fisheries technology demonstrated** | **Useful characters as well as constraints of technology** | **Socio-economic as well as administrative constraints for its adoption** |
|---|---|---|
| | | |

**5.B.7. Other enterprises – Nil-**

| Enterprise | Name of the technology demonstrated | Variety/ species | No. of Demo | Units/ Area {$m^2$} | Name of the parameter with unit | Yield | | | | % Increase | *Economics of demonstration (Rs./unit) or (Rs./m2) | | | *Economics of check (Rs./unit) or (Rs./m2) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Demo | | | Check if any | | Gross Return | Net Return | ** BCR | Gross Return | Net Return | ** BCR |
| | | | | | | H | L | A | | | | | | | | |
| Oyster mushroom | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Button mushroom | | | | | | | | | | | | | | | | |
| Vermicompost | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Sericulture | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Apiculture | | | | | | | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= Gross Return/Gross Cost
H-High L-Low, A-Average

**Data on additional parameters other than yield (viz., additional income realized, employment generation, quantum of farm resources recycled etc.)**

| **Data on other parameters in relation to technology demonstrated** | | |
|---|---|---|
| **Parameter with unit** | **Demo** | **Local** |
| | | |

**5. B8. Feedback on enterprises demonstrated**

| **Name of enterprise demonstrated** | **Useful characters as well as constraints of technology** | **Socio-economic as well as administrative constraints for its adoption** |
|---|---|---|
| | | |

**5.B.9. Farm implements and machinery**

| Name of the implement | Cost of the implement in Rs. | Name of the technology demonstrated | No. of Demo | Area covered under demo in ha | Name of the operation with unit | Labour requirement in Mandays | | % save | Savings in labour (Rs./ha) | *Economics of demonstration (Rs./ha) | | | *Economics of check (Rs./ha) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Demo | Check | | | Gross Return | Net Return | ** BCR | Gross Return | Net Return | ** BCR |
| | | | | | | | | | | | | | | | |
| FLD | 25000 | Power tiller attached blackgram seed drill | 25 | 10 | Blackgram line sowing using power tiller attached seed drill | On going | | | | | | | | | |

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= Gross Return/Gross Cost

**Data on additional parameters other than labour saved (viz., reduction in drudgery, time etc.)**

| Data on other parameters in relation to technology demonstrated | | |
|---|---|---|
| **Parameter with unit** | **Demo** | **Local** |
| | | |

**5. B10. Feedback on farm implements demonstrated**

| Name of farm implement demonstrated | Useful characters as well as constraints of technology | Socio-economic as well as administrative constraints for its adoption |
|---|---|---|
| | | |
| | | |

**5.B.6.Extension and Training activities under FLD**

| Sl.No. | Activity | No. of activities organised | Number of participants | Remarks |
|---|---|---|---|---|
| 1 | Field days | 4 | 444 | |
| 2 | Farmers Training | 74 | 2725 | |
| 3 | Media coverage | 83 | - | |
| 4 | Training for extension functionaries | - | - | |
| 5 | Others (Please specify) | - | - | |

## PART VI – DEMONSTRATIONS ON CROP HYBRIDS

**Demonstration details on crop hybrids**

| Type of Breed | Name of the technology demonstrated | Name of the hybrid | No. of Demo | Area (ha) | Yield (q/ha) | | | | % Increase | *Economics of demonstration (Rs./ha) | | | *Economics of check (Rs./ha) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Demo | | | Check | | Gross Return | Net Return | ** BCR | Gross Return | Net Return | ** BCR |
| | | | | | H | L | A | | | | | | | | |
| **Cereals** | | | | | | | | | | | | | | | |
| Bajra | | | | | | | | | | | | | | | |
| Maize | | | | | | | | | | | | | | | |
| Paddy | Sahyadri Panchamuki (Flood tolerant) | - | 10 | | | | | | | | | | | | |
| Sorghum | | | | | | | | | | | | | | | |
| Wheat | | | | | | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | | | | | | |
| **Total** | | | | | | | | | | | | | | | |
| **Oilseeds** | | | | | | | | | | | | | | | |
| Castor | | | | | | | | | | | | | | | |
| Mustard | | | | | | | | | | | | | | | |
| Safflower | | | | | | | | | | | | | | | |
| Sesame | | | | | | | | | | | | | | | |
| Sunflower | | | | | | | | | | | | | | | |
| Groundnut | | | | | | | | | | | | | | | |
| Soybean | | | | | | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | | | | | | |
| **Total** | | | | | | | | | | | | | | | |
| **Pulses** | | | | | | | | | | | | | | | |
| Greengram | | | | | | | | | | | | | | | |
| Blackgram | | | | | | | | | | | | | | | |
| Bengalgram | | | | | | | | | | | | | | | |
| Redgram | | | | | | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | | | | | | |
| **Total** | | | | | | | | | | | | | | | |
| **Vegetable crops** | | | | | | | | | | | | | | | |

| Type of Breed | Name of the technology demonstrated | Name of the hybrid | No. of Demo | Area (ha) | Yield (q/ha) | | | | % Increase | *Economics of demonstration (Rs./ha) | | | *Economics of check (Rs./ha) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Demo | | | Check | | Gross Return | Net Return | ** BCR | Gross Return | Net Return | ** BCR |
| | | | | | H | L | A | | | | | | | | |
| Bottle gourd | | | | | | | | | | | | | | | |
| Capsicum | | | | | | | | | | | | | | | |
| **Total** | | | | | | | | | | | | | | | |
| Cucumber | | | | | | | | | | | | | | | |
| Tomato | | | | | | | | | | | | | | | |
| Brinjal | | | | | | | | | | | | | | | |
| Okra | | | | | | | | | | | | | | | |
| Onion | | | | | | | | | | | | | | | |
| Potato | | | | | | | | | | | | | | | |
| Field bean | | | | | | | | | | | | | | | |
| **Total** | | | | | | | | | | | | | | | |
| **Commercial crops** | | | | | | | | | | | | | | | |
| Sugarcane | | | | | | | | | | | | | | | |
| Coconut | | | | | | | | | | | | | | | |
| **Total** | | | | | | | | | | | | | | | |
| Fodder crops | | | | | | | | | | | | | | | |
| Maize (Fodder) | | | | | | | | | | | | | | | |
| Sorghum (Fodder) | | | | | | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | | | | | | |
| **Total** | | | | | | | | | | | | | | | |

H-High L-Low, A-Average

*Please ensure that the name of the hybrid is correct pertaining to the crop specified

**Feedback on crop hybrids demonstrated**

| Name of crop hybrid demonstrated | Useful characters as well as constraints of technology | Socio-economic as well as administrative constraints for its adoption |
|---|---|---|
| Variety Sahyadri Panchamuki | Flood tolerant for 8-10 days, early harvesting 10-12 days | - |
| | | |

## PART VII. TRAINING

### 7.A.. Training of Farmers and Farm Women including sponsored training programmes (On campus)

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| **Crop Production** | 1 | 21 | 5 | 26 | - | - | - | 21 | 5 | 26 |
| Weed Management | | | | | | | | | | |
| Resource Conservation Technologies | 3 | 57 | 0 | 57 | - | - | - | 57 | 0 | 57 |
| Cropping Systems | | | | | | | | | | |
| Crop Diversification | | | | | | | | | | |
| Integrated Farming | 2 | 50 | 8 | 58 | - | - | - | 50 | 8 | 58 |
| Micro Irrigation/Irrigation | | | | | | | | | | |
| Seed production | | | | | | | | | | |
| Nursery management | | | | | | | | | | |
| Integrated Crop Management | 1 | - | - | - | 12 | 6 | 18 | 12 | 6 | 18 |
| Soil and Water Conservation | | | | | | | | | | |
| Integrated Nutrient Management | | | | | | | | | | |
| Production of organic inputs | | | | | | | | | | |
| Others (pl.specify)Agriculture and Environment | 2 | 53 | 30 | 83 | 11 | 9 | 20 | 64 | 39 | 103 |
| **Horticulture** | | | | | | | | | | |
| **a) Vegetable Crops** | | | | | | | | | | |
| Production of low value and high volume crop | | | | | | | | | | |
| Off-season vegetables | | | | | | | | | | |
| Nursery raising | 1 | 35 | 25 | 60 | - | - | - | 35 | 25 | 60 |

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Exotic vegetables | | | | | | | | | | |
| Export potential vegetables | | | | | | | | | | |
| Grading and standardization | 1 | 7 | 19 | 26 | - | - | - | 7 | 19 | 26 |
| Protective cultivation | | | | | | | | | | |
| Others (pl.specify) Integrated crop management | 3 | 102 | 11 | 113 | - | - | - | 102 | 11 | 113 |
| **b) Fruits** | | | | | | | | | | |
| Training and Pruning | | | | | | | | | | |
| Layout and Management of Orchards | | | | | | | | | | |
| Cultivation of Fruit | | | | | | | | | | |
| Management of young plants/orchards | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | |
| Export potential fruits | | | | | | | | | | |
| Micro irrigation systems of orchards | | | | | | | | | | |
| Plant propagation techniques | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **c) Ornamental Plants** | | | | | | | | | | |
| Nursery Management | | | | | | | | | | |
| Management of potted plants | | | | | | | | | | |
| Export potential of ornamental plants | | | | | | | | | | |
| Propagation techniques of Ornamental Plants | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **d) Plantation crops** | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | |

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Processing and value addition | | | | | | | | | | |
| Others (pl.specify) Integrated Crop Management (ICM) | 1 | 36 | - | 36 | - | - | - | 36 | - | 36 |
| **e) Tuber crops** | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **f) Spices** | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | |
| Others (pl.specify) Integrated Crop Management | 1 | 19 | 5 | 24 | - | - | - | 19 | 5 | 24 |
| **g) Medicinal and Aromatic Plants** | | | | | | | | | | |
| Nursery management | | | | | | | | | | |
| Production and management technology | | | | | | | | | | |
| Post harvest technology and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **Soil Health and Fertility Management** | | | | | | | | | | |
| Soil fertility management | 1 | 20 | 45 | 65 | - | - | - | 20 | 45 | 65 |
| Integrated water management | | | | | | | | | | |
| Integrated nutrient management | | | | | | | | | | |
| Production and use of organic inputs | | | | | | | | | | |
| Management of Problematic soils | | | | | | | | | | |
| Micro nutrient deficiency in crops | | | | | | | | | | |

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Nutrient use efficiency | | | | | | | | | | |
| Balanced use of fertilizers | | | | | | | | | | |
| Soil and water testing | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **Livestock Production and Management** | | | | | | | | | | |
| Dairy Management | | | | | | | | | | |
| Poultry Management | | | | | | | | | | |
| Piggery Management | | | | | | | | | | |
| Rabbit Management | | | | | | | | | | |
| Animal Nutrition Management | | | | | | | | | | |
| Animal Disease Management | | | | | | | | | | |
| Feed and Fodder technology | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **Home Science/Women empowerment** | | | | | | | | | | |
| Household food security by kitchen gardening and nutrition gardening | 1 | 190 | 108 | 298 | - | - | - | 190 | 108 | 298 |
| Design and development of low/minimum cost diet | | | | | | | | | | |
| Designing and development for high nutrient efficiency diet | | | | | | | | | | |
| Minimization of nutrient loss in processing | | | | | | | | | | |
| Processing and cooking | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | |

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Storage loss minimization techniques | | | | | | | | | | |
| Value addition | | | | | | | | | | |
| Women empowerment | | | | | | | | | | |
| Location specific drudgery production | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | |
| Women and child care | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **Agril. Engineering** | | | | | | | | | | |
| Farm machinery and its maintenance | | | | | | | | | | |
| Installation and maintenance of micro irrigation systems | | | | | | | | | | |
| Use of Plastics in farming practices | | | | | | | | | | |
| Production of small tools and implements | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | |
| Small scale processing and value addition | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **Plant Protection** | | | | | | | | | | |
| Integrated Pest Management | | | | | | | | | | |
| Integrated Disease Management | 8 | 171 | 74 | 245 | - | - | - | 171 | 74 | 245 |
| Bio-control of pests and diseases | | | | | | | | | | |
| Production of bio control agents and bio pesticides | | | | | | | | | | |

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Others (pl.specify)Management of Honey bee colonies | 1 | 58 | 24 | 82 | | | | 58 | 24 | 82 |
| **Fisheries** | | | | | | | | | | |
| Integrated fish farming | | | | | | | | | | |
| Carp breeding and hatchery management | | | | | | | | | | |
| Carp fry and fingerling rearing | | | | | | | | | | |
| Composite fish culture | | | | | | | | | | |
| Hatchery management and culture of freshwater prawn | | | | | | | | | | |
| Breeding and culture of ornamental fishes | | | | | | | | | | |
| Portable plastic carp hatchery | | | | | | | | | | |
| Pen culture of fish and prawn | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | |
| Edible oyster farming | | | | | | | | | | |
| Pearl culture | | | | | | | | | | |
| Fish processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **Production of Inputs at site** | | | | | | | | | | |
| Seed Production | | | | | | | | | | |
| Planting material production | | | | | | | | | | |
| Bio-agents production | | | | | | | | | | |
| Bio-pesticides production | | | | | | | | | | |
| Bio-fertilizer production | | | | | | | | | | |
| Vermi-compost production | | | | | | | | | | |

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Organic manures production | | | | | | | | | | |
| Production of fry and fingerlings | | | | | | | | | | |
| Production of Bee-colonies and wax sheets | | | | | | | | | | |
| Small tools and implements | | | | | | | | | | |
| Production of livestock feed and fodder | | | | | | | | | | |
| Production of Fish feed | | | | | | | | | | |
| Mushroom production | 2 | 50 | 27 | **77** | **-** | **-** | **-** | 50 | 27 | **77** |
| Apiculture | | | | | | | | | | |
| Others (pl.specify) organic farming | 2 | 61 | 14 | 75 | 2 | - | 2 | 63 | 14 | 77 |
| **CapacityBuilding and Group Dynamics** | | | | | | | | | | |
| Leadership development | | | | | | | | | | |
| Group dynamics | | | | | | | | | | |
| Formation and Management of SHGs | | | | | | | | | | |
| Mobilization of social capital | | | | | | | | | | |
| Entrepreneurial development of farmers/youths | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **Agro-forestry** | | | | | | | | | | |
| Production technologies | | | | | | | | | | |
| Nursery management | | | | | | | | | | |
| Integrated Farming Systems | | | | | | | | | | |
| Others (Pl. specify)World environment day Bamboo cultivation | 2 | 90 | 18 | 108 | - | - | - | 90 | 18 | 108 |
| **TOTAL** | **33** | **1020** | **413** | **1433** | **25** | **15** | **40** | **1045** | **428** | **1473** |

**7.B Training of Farmers and Farm Women including sponsored training programmes (Off campus)**

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| **Crop Production** | | | | | | | | | | |
| Weed Management | 4 | 86 | 33 | 119 | - | - | - | 86 | 33 | 119 |
| Resource Conservation Technologies | | | | | | | | | | |
| Cropping Systems | | | | | | | | | | |
| Crop Diversification | | | | | | | | | | |
| Integrated Farming | | | | | | | | | | |
| Micro Irrigation/Irrigation | | | | | | | | | | |
| Seed production | | | | | | | | | | |
| Nursery management | | | | | | | | | | |
| Integrated Crop Management | | | | | | | | | | |
| Soil and Water Conservation | | | | | | | | | | |
| Integrated Nutrient Management | | | | | | | | | | |
| Production of organic inputs | | | | | | | | | | |
| Others (pl.specify)Composting | 2 | 36 | 4 | 40 | - | - | - | 36 | 4 | 40 |
| **Horticulture** | | | | | | | | | | |
| **a) Vegetable Crops** | | | | | | | | | | |
| Production of low value and high volume crop | | | | | | | | | | |
| Off-season vegetables | | | | | | | | | | |
| Nursery raising | 1 | 20 | 5 | 25 | - | - | - | 20 | 5 | 25 |
| Exotic vegetables | | | | | | | | | | |
| Export potential vegetables | | | | | | | | | | |

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Grading and standardization | 1 | - | 25 | 25 | - | - | - | - | 25 | 25 |
| Protective cultivation | | | | | | | | | | |
| Others (pl.specify)Integrated Crop Management (ICM) | 5 | 127 | 54 | 181 | 1 | 1 | 2 | 128 | 55 | 183 |
| **b) Fruits** | | | | | | | | | | |
| Training and Pruning | | | | | | | | | | |
| Layout and Management of Orchards | | | | | | | | | | |
| Cultivation of Fruit | | | | | | | | | | |
| Management of young plants/orchards | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | |
| Export potential fruits | | | | | | | | | | |
| Micro irrigation systems of orchards | | | | | | | | | | |
| Plant propagation techniques | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **c) Ornamental Plants** | | | | | | | | | | |
| Nursery Management | | | | | | | | | | |
| Management of potted plants | | | | | | | | | | |
| Export potential of ornamental plants | | | | | | | | | | |
| Propagation techniques of Ornamental Plants | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **d) Plantation crops** | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| **e) Tuber crops** | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **f) Spices** | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **g) Medicinal and Aromatic Plants** | | | | | | | | | | |
| Nursery management | | | | | | | | | | |
| Production and management technology | | | | | | | | | | |
| Post harvest technology and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **Soil Health and Fertility Management** | | | | | | | | | | |
| Soil fertility management | | | | | | | | | | |
| Integrated water management | | | | | | | | | | |
| Integrated nutrient management | 3 | 37 | 30 | 67 | - | - | - | 37 | 30 | 67 |
| Production and use of organic inputs | | | | | | | | | | |
| Management of Problematic soils | | | | | | | | | | |
| Micro nutrient deficiency in crops | | | | | | | | | | |
| Nutrient use efficiency | | | | | | | | | | |
| Balanced use of fertilizers | | | | | | | | | | |
| Soil and water testing | | | | | | | | | | |

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Others (pl.specify) | | | | | | | | | | |
| **Livestock Production and Management** | | | | | | | | | | |
| Dairy Management | | | | | | | | | | |
| Poultry Management | | | | | | | | | | |
| Piggery Management | | | | | | | | | | |
| Rabbit Management | | | | | | | | | | |
| Animal Nutrition Management | | | | | | | | | | |
| Animal Disease Management | | | | | | | | | | |
| Feed and Fodder technology | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **Home Science/Women empowerment** | | | | | | | | | | |
| Household food security by kitchen gardening and nutrition gardening | 1 | 15 | 4 | 19 | - | - | - | 15 | 4 | 19 |
| Design and development of low/minimum cost diet | | | | | | | | | | |
| Designing and development for high nutrient efficiency diet | | | | | | | | | | |
| Minimization of nutrient loss in processing | | | | | | | | | | |
| Processing and cooking | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | |
| Storage loss minimization techniques | | | | | | | | | | |
| Value addition | 3 | 89 | 37 | 126 | - | - | - | 89 | 37 | 126 |
| Women empowerment | | | | | | | | | | |

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Location specific drudgery production | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | |
| Women and child care | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **Agril. Engineering** | | | | | | | | | | |
| Farm machinery and its maintenance | | | | | | | | | | |
| Installation and maintenance of micro irrigation systems | | | | | | | | | | |
| Use of Plastics in farming practices | | | | | | | | | | |
| Production of small tools and implements | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | |
| Small scale processing and value addition | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **Plant Protection** | | | | | | | | | | |
| Integrated Pest Management | 2 | 31 | 5 | 36 | - | - | - | 31 | 5 | 36 |
| Integrated Disease Management | 7 | 165 | 72 | 237 | - | - | - | 165 | 72 | 237 |
| Bio-control of pests and diseases | | | | | | | | | | |
| Production of bio control agents and bio pesticides | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **Fisheries** | | | | | | | | | | |
| Integrated fish farming | | | | | | | | | | |

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Carp breeding and hatchery management | | | | | | | | | | |
| Carp fry and fingerling rearing | | | | | | | | | | |
| Composite fish culture | | | | | | | | | | |
| Hatchery management and culture of freshwater prawn | | | | | | | | | | |
| Breeding and culture of ornamental fishes | | | | | | | | | | |
| Portable plastic carp hatchery | | | | | | | | | | |
| Pen culture of fish and prawn | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | |
| Edible oyster farming | | | | | | | | | | |
| Pearl culture | | | | | | | | | | |
| Fish processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **Production of Inputs at site** | | | | | | | | | | |
| Seed Production | | | | | | | | | | |
| Planting material production | | | | | | | | | | |
| Bio-agents production | | | | | | | | | | |
| Bio-pesticides production | | | | | | | | | | |
| Bio-fertilizer production | 2 | 52 | 8 | 60 | - | - | - | 52 | 8 | 60 |
| Vermi-compost production | 2 | 28 | 10 | 38 | - | - | - | 28 | 10 | 38 |
| Organic manures production | | | | | | | | | | |
| Production of fry and fingerlings | | | | | | | | | | |
| Production of Bee-colonies and wax sheets | | | | | | | | | | |
| Small tools and implements | | | | | | | | | | |

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Production of livestock feed and fodder | | | | | | | | | | |
| Production of Fish feed | | | | | | | | | | |
| Mushroom production | | | | | | | | | | |
| Apiculture | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **CapacityBuilding and Group Dynamics** | | | | | | | | | | |
| Leadership development | | | | | | | | | | |
| Group dynamics | | | | | | | | | | |
| Formation and Management of SHGs | | | | | | | | | | |
| Mobilization of social capital | | | | | | | | | | |
| Entrepreneurial development of farmers/youths | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| **Agro-forestry** | | | | | | | | | | |
| Production technologies | | | | | | | | | | |
| Nursery management | | | | | | | | | | |
| Integrated Farming Systems | 1 | 25 | 18 | 43 | | | | 25 | 18 | 43 |
| Others (Pl. specify)Bamboo cultivation Biodiversity conservation | 2 | 33 | 18 | 51 | | | | 33 | 18 | 51 |
| **TOTAL** | **36** | **744** | **323** | **1067** | **1** | **-** | **1** | **745** | **323** | **1068** |

**7.C.Training for Rural Youths including sponsored training programmes (on campus)**

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Nursery Management of Horticulture crops | | | | | | | | | | |
| Training and pruning of orchards | | | | | | | | | | |
| Protected cultivation of vegetable crops | | | | | | | | | | |
| Commercial fruit production | | | | | | | | | | |
| Integrated farming | | | | | | | | | | |
| Seed production | | | | | | | | | | |
| Production of organic inputs | | | | | | | | | | |
| Planting material production | | | | | | | | | | |
| Vermi-culture | | | | | | | | | | |
| Mushroom Production | | | | | | | | | | |
| Bee-keeping | | | | | | | | | | |
| Sericulture | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | |
| Value addition | | | | | | | | | | |
| Small scale processing | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | |
| Tailoring and Stitching | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | |
| Dairying | | | | | | | | | | |
| Sheep and goat rearing | | | | | | | | | | |
| Quail farming | | | | | | | | | | |

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Piggery | | | | | | | | | | |
| Rabbit farming | | | | | | | | | | |
| Poultry production | | | | | | | | | | |
| Ornamental fisheries | | | | | | | | | | |
| Composite fish culture | | | | | | | | | | |
| Freshwater prawn culture | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | |
| Pearl culture | | | | | | | | | | |
| Cold water fisheries | | | | | | | | | | |
| Fish harvest and processing technology | | | | | | | | | | |
| Fry and fingerling rearing | | | | | | | | | | |
| Any other (pl.specify) Paddy mechanization | 1 | 19 | 8 | 27 | - | - | - | 19 | 8 | 27 |
| **TOTAL** | **1** | **19** | **8** | **27** | **-** | **-** | **-** | **19** | **8** | **27** |

**7.D. Training for Rural Youths including sponsored training programmes (off campus) – Nil-**

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Nursery Management of Horticulture crops | | | | | | | | | | |
| Training and pruning of orchards | | | | | | | | | | |
| Protected cultivation of vegetable crops | | | | | | | | | | |
| Commercial fruit production | | | | | | | | | | |
| Integrated farming | | | | | | | | | | |
| Seed production | | | | | | | | | | |
| Production of organic inputs | | | | | | | | | | |
| Planting material production | | | | | | | | | | |
| Vermi-culture | | | | | | | | | | |
| Mushroom Production | | | | | | | | | | |
| Bee-keeping | | | | | | | | | | |
| Sericulture | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | |
| Value addition | | | | | | | | | | |
| Small scale processing | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | |
| Tailoring and Stitching | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | |
| Dairying | | | | | | | | | | |
| Sheep and goat rearing | | | | | | | | | | |
| Quail farming | | | | | | | | | | |

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Piggery | | | | | | | | | | |
| Rabbit farming | | | | | | | | | | |
| Poultry production | | | | | | | | | | |
| Ornamental fisheries | | | | | | | | | | |
| Composite fish culture | | | | | | | | | | |
| Freshwater prawn culture | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | |
| Pearl culture | | | | | | | | | | |
| Cold water fisheries | | | | | | | | | | |
| Fish harvest and processing technology | | | | | | | | | | |
| Fry and fingerling rearing | | | | | | | | | | |
| Any other (pl.specify) | | | | | | | | | | |
| **TOTAL** | | | | | | | | | | |

**7.E.Trainingprogrammes for Extension Personnel including sponsored training programmes (on campus) – Nil-**

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Productivity enhancement in field crops | | | | | | | | | | |
| Integrated Pest Management | | | | | | | | | | |
| Integrated Nutrient management | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | |
| Protected cultivation technology | | | | | | | | | | |
| Production and use of organic inputs | | | | | | | | | | |
| Care and maintenance of farm machinery and implements | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | |
| Formation and Management of SHGs | | | | | | | | | | |
| Women and Child care | | | | | | | | | | |
| Low cost and nutrient efficient diet designing | | | | | | | | | | |
| Group Dynamics and farmers organization | | | | | | | | | | |
| Information networking among farmers | | | | | | | | | | |
| Capacity building for ICT application | | | | | | | | | | |
| Management in farm animals | | | | | | | | | | |
| Livestock feed and fodder production | | | | | | | | | | |
| Household food security | | | | | | | | | | |
| Any other (pl.specify) | | | | | | | | | | |
| **Total** | | | | | | | | | | |

**7.F. Training programmes for Extension Personnel including sponsored training programmes (off campus) – Nil-**

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Productivity enhancement in field crops | | | | | | | | | | |
| Integrated Pest Management | | | | | | | | | | |
| Integrated Nutrient management | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | |
| Protected cultivation technology | | | | | | | | | | |
| Production and use of organic inputs | | | | | | | | | | |
| Care and maintenance of farm machinery and implements | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | |
| Formation and Management of SHGs | | | | | | | | | | |
| Women and Child care | | | | | | | | | | |
| Low cost and nutrient efficient diet designing | | | | | | | | | | |
| Group Dynamics and farmers organization | | | | | | | | | | |
| Information networking among farmers | | | | | | | | | | |
| Capacity building for ICT application | | | | | | | | | | |
| Management in farm animals | | | | | | | | | | |
| Livestock feed and fodder production | | | | | | | | | | |
| Household food security | | | | | | | | | | |
| Any other (pl.specify) | | | | | | | | | | |
| **Total** | | | | | | | | | | |

7.G. Sponsored training programmes conducted

| S.No. | Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | General | | | SC/ST | | | Grand Total | | |
| | | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| **1** | **Crop production and management** | | | | | | | | | | |
| 1.a. | Increasing production and productivity of crops | | | | | | | | | | |
| 1.b. | Commercial production of vegetables | | | | | | | | | | |
| **2** | **Production and value addition** | | | | | | | | | | |
| 2.a. | Fruit Plants | | | | | | | | | | |
| 2.b. | Ornamental plants | | | | | | | | | | |
| 2.c. | Spices crops | | | | | | | | | | |
| **3.** | **Soil health and fertility management** | | | | | | | | | | |
| **4** | **Production of Inputs at site** | | | | | | | | | | |
| **5** | **Methods of protective cultivation** | | | | | | | | | | |
| **6** | **Others (pl.specify)** | | | | | | | | | | |
| **7** | **Post harvest technology and value addition** | | | | | | | | | | |
| 7.a. | Processing and value addition | | | | | | | | | | |
| 7.b. | Others (pl.specify) | | | | | | | | | | |
| **8** | **Farm machinery** | | | | | | | | | | |
| 8.a. | Farm machinery, tools and implements | | | | | | | | | | |
| 8.b. | Others (pl.specify) | | | | | | | | | | |
| **9.** | **Livestock and fisheries** | | | | | | | | | | |
| **10** | **Livestock production and management** | | | | | | | | | | |
| 10.a. | Animal Nutrition Management | | | | | | | | | | |
| 10.b. | Animal Disease Management | | | | | | | | | | |
| 10.c | Fisheries Nutrition | | | | | | | | | | |
| 10.d | Fisheries Management | | | | | | | | | | |
| 10.e. | Others (pl.specify) | | | | | | | | | | |
| **11.** | **Home Science** | | | | | | | | | | |
| 11.a. | Household nutritional security | | | | | | | | | | |
| 11.b. | Economic empowerment of women | | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 11.c. | Drudgery reduction of women | | | | | | | | | | |
| 11.d. | Others (pl.specify) | | | | | | | | | | |
| **12** | **Agricultural Extension** | | | | | | | | | | |
| 12.a. | CapacityBuilding and Group Dynamics | | | | | | | | | | |
| 12.b. | Others (pl.specify) Integrated farming systems & Friends of coconut tree, Field day on Scientific cultivation | 4 | 113 | 44 | **157** | **-** | **-** | **-** | 113 | 44 | **157** |
| | **Total** | 4 | 113 | 44 | **157** | **-** | **-** | **-** | 113 | 44 | **157** |

**Details of sponsoring agencies involved**

**1.**

**2.**

**3.**

**7.H. Details of Vocational Training Programmes carried out by KVKs for rural youth – Nil-**

| S.No. | Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | General | | | SC/ST | | | Grand Total | | |
| | | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| **1** | **Crop production and management** | | | | | | | | | | |
| 1.a. | Commercial floriculture | | | | | | | | | | |
| 1.b. | Commercial fruit production | | | | | | | | | | |
| 1.c. | Commercial vegetable production | | | | | | | | | | |
| 1.d. | Integrated crop management | | | | | | | | | | |
| 1.e. | Organic farming | | | | | | | | | | |
| 1.f. | Others (pl.specify) | | | | | | | | | | |
| **2** | **Post harvest technology and value addition** | | | | | | | | | | |
| 2.a. | Value addition | | | | | | | | | | |
| 2.b. | Others (pl.specify) | | | | | | | | | | |
| **3.** | **Livestock and fisheries** | | | | | | | | | | |
| 3.a. | Dairy farming | | | | | | | | | | |
| 3.b. | Composite fish culture | | | | | | | | | | |
| 3.c. | Sheep and goat rearing | | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3.d. | Piggery | | | | | | | | | | |
| 3.e. | Poultry farming | | | | | | | | | | |
| 3.f. | Others (pl.specify) | | | | | | | | | | |
| **4.** | **Income generation activities** | | | | | | | | | | |
| 4.a. | Vermi-composting | | | | | | | | | | |
| 4.b. | Production of bio-agents, bio-pesticides, bio-fertilizers etc. | | | | | | | | | | |
| 4.c. | Repair and maintenance of farm machinery and implements | | | | | | | | | | |
| 4.d. | Rural Crafts | | | | | | | | | | |
| 4.e. | Seed production | | | | | | | | | | |
| 4.f. | Sericulture | | | | | | | | | | |
| 4.g. | Mushroom cultivation | | | | | | | | | | |
| 4.h. | Nursery, grafting etc. | | | | | | | | | | |
| 4.i. | Tailoring, stitching, embroidery, dying etc. | | | | | | | | | | |
| 4.j. | Agril. para-workers, para-vet training | | | | | | | | | | |
| 4.k. | Others (pl.specify) | | | | | | | | | | |
| **5** | **Agricultural Extension** | | | | | | | | | | |
| 5.a. | Capacity building and group dynamics | | | | | | | | | | |
| 5.b. | Others (pl.specify) | | | | | | | | | | |
| | **Grand Total** | | | | | | | | | | |

**7.F. Details of Skill Training Programmes carried out by KVKs under ASCI – Nil-**

| S. No. | Name of Job Role | Date of Start | Date of Close | Total Participants | No. of Participants | | | | | | | | | Date of Assessment | No of Participants passed assessment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | General | | | SC/ST | | | Grand Total | | | | |
| | | | | | Male | Female | Total | Male | Female | Total | Male | Female | Total | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

## PART VIII – EXTENSION ACTIVITIES

**8.1. Extension Programmes (including extension activities undertaken in FLD programmes)**

| Nature of Extension Programme | No. of Programmes | No. of Participants (General) | | | No. of Participants SC / ST | | | No.of extension personnel | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Advisory services | 1744 | 1397 | 347 | 1744 | - | - | - | - | - | - |
| Farmers visit to KVKs | 55000 | 43400 | 5630 | 49030 | 3940 | 2000 | 5940 | 29 | 1 | 30 |
| Lectures delivered as resource persons | 74 | 3279 | 1484 | 4763 | - | - | - | - | - | - |
| Diagnostic Visits | 27 | 62 | 0 | 62 | 0 | 0 | 0 | 16 | 0 | 16 |
| Field Days | 4 | 318 | 106 | 424 | 12 | 6 | 18 | 2 | 0 | 2 |
| Group discussions/ meetings | 27 | 503 | 1 | 504 | 0 | 0 | 0 | 12 | 0 | 12 |
| Kisan Gosthies | - | - | - | - | - | - | - | - | - | - |
| Film Shows | - | - | - | - | - | - | - | - | - | - |
| Self help group meetings | - | - | - | - | - | - | - | - | - | - |
| Mahilamandals meetings | - | - | - | - | - | - | - | - | - | - |
| Kisan Melas/Krishimela | 2 | 12300 | 2000 | 14300 | 750 | 27 | 777 | 5 | 3 | 8 |
| Exhibitions | 8 | 6977 | 2300 | 9277 | 1505 | 177 | 1682 | 27 | 6 | 33 |
| Scientist visit to farmers fields | 120 | 491 | 62 | 553 | 3 | 1 | 4 | 43 | 2 | 45 |
| Soil health camps | - | - | - | - | - | - | - | - | - | - |
| Animal health camps | - | - | - | - | - | - | - | - | - | - |
| Plant health camps | - | - | - | - | - | - | - | - | - | - |
| Farm Science Club meetings | - | - | - | - | - | - | - | - | - | - |
| Ex-trainees Sammelans | - | - | - | - | - | - | - | - | - | - |
| Farmers seminars | 2 | 77 | 61 | 138 | | | | 14 | 0 | 14 |
| Workshops | 9 | 197 | 53 | 250 | 17 | 3 | 20 | 214 | 56 | 270 |
| Method Demonstrations | 23 | 418 | 15 | 433 | 0 | 0 | 0 | 9 | 0 | 9 |
| Farm trials | 6 | 157 | 3 | 160 | 8 | 4 | 12 | - | - | - |
| Celebration of important days | 13 | 797 | 5 | 802 | 67 | 12 | 79 | - | - | - |
| Special day celebrations | - | - | `- | - | - | - | - | - | - | - |
| Exposure visits | 9 | 59 | 28 | 87 | 2 | 1 | 3 | 6 | 0 | 6 |
| Tri monthly workshop | 1 | 28 | 2 | 30 | - | - | - | 5 | 4 | 9 |
| Farmer Scientist interaction | 6 | 163 | 4 | 167 | - | - | - | - | - | - |
| Others, Please specify | | | | | | | | | | |
| **Total** | **57075** | **70623** | **12101** | **82724** | **6304** | **2231** | **8535** | **382** | **72** | **454** |

**8.2 Other extension activities like print and electronic media etc.**

| Sl. No. | Type of media/activity | Number of activities/Number |
|---|---|---|
| 1 | Popular articles | 6 |
| 2 | Newspaper coverage | 36 |
| 3 | Extension Literature | 6 |
| 4 | Radio Talks | 17 |
| 5 | TV Talks | 6 |
| 6 | CD/DVD/Video clips | 12 |
| 7 | Animal health camps (no. of animal treated) | - |
| 8 | Others, please specify | - |
| | Total | 83 |

**PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIAL**

**9.A. Production of seeds by the KVKs**

| Crop category | Name of the crop | Name of the Variety | Quantity of seed (q) | Value (Rs) | Number of farmers to whom provided |
|---|---|---|---|---|---|
| Cereals (crop wise) | | | | | |
| Oilseeds | | | | | |
| Pulses | | | | | |
| Commercial crops | | | | | |
| Vegetables | Lady's finger | White velvet (Halu bhendi) | 0.37 | 51800 | 32 |
| | Amaranthus seeds | Local | 0.18 | 720 | 17 |
| Flower crops | | | | | |
| Spices | | | | | |
| Fodder crop seeds | | | | | |
| Fiber crops | | | | | |
| Forest Species | | | | | |
| Others (specify) | | | | | |
| **Total** | | | | | |

**9.B. Production of hybrid seeds by the KVKs- Nil-**

| Crop category | Name of crop | Name of the hybrid | Quantity of seed (q) | Value (Rs) | Number of farmers to whom provided |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| **Total** | | | | | |

**9.C. Production of planting material by the KVKs**

| Crop category | Name of the crop | Variety | Number | Value (Rs.) | Number of farmers to whom provided |
|---|---|---|---|---|---|
| Commercial | | | | | |
| Vegetable seedlings | | | | | |
| | Brinjal | Mattugulla grafts | 250 | 5000 | 5 |
| Fruits | | | | | |
| | Papaya | Thaiwan red lady | 1322 | 26440 | 52 |
| | Jack fruit grafts | Gumless | 696 | 69900 | 37 |
| Ornamental plants | | | | | |
| Medicinal and Aromatic | | | | | |
| Plantation | | | | | |
| | Arecanut | Mangala | 4842 | 121050 | 47 |
| | Arecanut | Mohit Nagar | 5184 | 129600 | 48 |
| | Coconut | WCT | 490 | 29440 | 21 |
| | Kokum | Local | 1401 | 14075 | 15 |
| | Others | | 1026 | 51311 | 57 |
| Spices | | | | | |
| | Pepper | Panniyur-1 | 1496 | 14960 | 13 |

| | | | | | |
|---|---|---|---|---|---|
| | | Panniyur-1under project | 2108 | 21080 | 57 |
| | | Panniyur-8 | 400 | 4000 | 10 |
| | | Panniyur-5 | 49 | 490 | 1 |
| | | IISR- Shakthi | 150 | 1500 | 2 |
| | | IISR-Tewam | 171 | 1710 | 6 |
| | Bush pepper | Panniyur-1 | 107 | 4280 | 5 |
| Tuber | | | | | |
| Fodder crop saplings | | | | | |
| Forest Species | | | | | |
| Others(specify)Flowers | Jasmine | Udupi Jasmine | 347 | 12145 | 12 |
| **Total** | | | 20039 | 506981 | 388 |

**9.D. Production of hybrid planting materials by the KVKs – Nil-**

| Crop category | Name of crop | Name of the hybrid | Quantity of seed (q) | Value (Rs) | Number of farmers to whom provided |
|---|---|---|---|---|---|
| **Total** | | | | | |

**9.C. Production of Bio-Products**

| Bio Products | Name of the bio-product | Quantity (q) | Value (Rs.) | Number of farmers to whom provided |
|---|---|---|---|---|
| Bio Fertilizers | Sahyadri Microbial enriched coconut fronds vermin compost | 0.3 | 7500 | 12 |
| Bio-pesticide | | | | |
| Bio-fungicide | | | | |
| Bio Agents | Sahyadri Thrishool Microbial Consortium | 0.694 | 79760 | 38 |
| | Sahyadri vermin wash | 0.33 | 660 | 4 |
| Others (specify) | | | | |
| **Total** | | 1.324 | 87920 | 54 |

**9.D. Production of livestock**

| Particulars of Livestock | Name of the breed | Number | Value (Rs.) | Number of farmers to whom provided |
|---|---|---|---|---|
| **Dairy animals** | | | | |
| Cows | | | | |
| Buffaloes | | | | |
| Calves | | | | |
| Others (Pl. specify) | | | | |
| **Poultry** | | | | |
| Broilers | Swarnadhara/Giriraja | 1659 | 186130 | 77 |
| Layers | | | | |
| Duals (broiler and layer) | | | | |
| Japanese Quail | | | | |
| Turkey | | | | |
| Emu | | | | |
| Ducks | | | | |
| Others (Pl. specify) | | | | |
| **Piggery** | | | | |
| Piglet | | | | |
| Others (Pl.specify) | | | | |
| **Fisheries** | | | | |
| Fingerlings | Common carp | 2700 | 5400 | 8 |
| | Rohu | 12300 | 24600 | 3 |
| | Jayanthi Rohu | 9770 | 19540 | 12 |
| Others (Pl. specify) | | | | |
| **Total** | | 26429 | 235670 | 100 |

## PART X – PUBLICATIONS, SUCCESS STORY, INNOVATIVE METHODOLOGY, ITK, TECHNOLOGY WEEK

**10. A. Literature Developed/Published (with full title, author & reference)**

(i) KVK Newsletter:
Date of start:2006 Periodicity: Quarterly Copies printed July to September 2021 & October to December 2021 Copies printed in each issue: 100

(ii) Summary of Literature developed/published

| Item | Number |
|---|---|
| Research papers- International | |
| Research papers- National | |
| Technical reports | |
| Technical bulletins | |
| Popular articles - English | |
| Popular articles – Local language | |
| Extension literature | |
| Others if any | |

(iii) Details of Literature developed/published

Please provide the details of above publication in the following format:

1. Research articles in journals: Complete citation indicating authors, year of publication, title of publication, journal name, volume and page number in sequence.

Example:

Dagar J C, Tomar O S, Minhas P S and Kumar M, (2013) Lemon grass productivity as affected by salinity of irrigation water, planting methods and fertilizer doses on a calcareous soil in a semi-arid region of northwest India.*Indian Journal of Agricultural Sciences*, 83(7): 734-738.

2. Technical Reports/ bulletins: Authors name, Title of the technical report, name of publishing KVK, number of pages.

Example:

Abrol I P, Dargan K S and Bhumbla D R, (1973) Reclaiming Alkali Soils, Bulletin No. 2, Central Soil Salinity Research Institute, Karnal, 58p.

3. Popular articles: Authors name, Title of the article, date of publication, Name of the newspaper/magazine, page no.

Example:

Santhosh H M and Ashok P, (2021) Drip irrigation system and its management, *Krishi Kamadenu,*14(2):35-39.

4. Extension literature; Authors name, month and year of publication, Title of extension literature like folders, pamphlets etc., name of publishing KVK, number of pages.

Example:

Ravi Kand Shankar R, (2021) Sodic soil reclamation, No. 20, KVK Koppel, 4p.

**10.B. Details of Electronic Media Produced**

| S. No. | **Type of media** | **Title** | **Details** |
|---|---|---|---|
| 1 | CD / DVD | | |
| 2 | Mobile Apps | | |
| 3 | Social media groups with KVK as Admin | | |
| 4 | Facebook account name | KVK UDUPI | |
| 5 | Instagram account name | | |
| 6 | Others if any(KVK Udupi website) | kvkud.uahs.edu.in | |

**10.C. Success Stories / Case studies, if any (two/three-pages write-up on each case with suitable action photographs. The Success Stories / Case Studies need not be restricted to the reporting period).**

This will be considered only with suitable photos for further reporting/reference.

The Broad outline for the case study may be

Title

Background

Interventions
- Process
- Technology

Output and outcome

Impact
- Horizontal Spread
- Economic gains
- Employment Generation

**Photos**

| | |
|---|---|
| **Photo** | **Photo** |
| **Title** | **Title** |
| **Photo** | **Photo** |
| **Title** | **Title** |

**10.D. Give details of Innovative Methodology or Innovative Approach of Transfer of Technology developed and used during the year -Nil-**

**10.E. Give details of Indigenous Technical Knowledge practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs) -Nil-**

| S. No. | Crop / Enterprise | ITK Practiced | Purpose of ITK | Scientific Rationale |
|---|---|---|---|---|
| | | | | |

10 F. Technology Week celebrations: -Nil-

Period of observing Technology Week: From to
Total number of farmers visited :
Total number of agencies involved :
Number of demonstrations visited by the farmers within KVK campus :

Other Details

| Types of Activities | No. of Activities | Number of Farmers | Related crop/livestock technology |
|---|---|---|---|
| Gosthies | | | |
| Lectures organized | | | |
| Exhibition | | | |
| Film show | | | |
| Fair | | | |
| Farm Visit | | | |
| Diagnostic Practicals | | | |
| Supply of Literature (No.) | | | |
| Supply of Seed (q) | | | |
| Supply of Planting materials (No.) | | | |
| Bio Product supply (Kg) | | | |
| Bio Fertilizers (q) | | | |
| Supply of fingerlings | | | |
| Supply of Livestock specimen (No.) | | | |
| Total number of farmers visited the technology week | | | |

**10 E. Recognition and Awards:** Please give details about National and State level recognition and awards

# PART XI – SOIL AND WATER TEST

## 11.1 Soil and Water Testing Laboratory

**A. Status of establishment of Lab : Full Pledged establishment in the year 2002**

1. Year of establishment : 2002
2. List of equipments purchased with amount :

| Sl. No | Name of the Equipment | Qty. | Cost | Status |
|---|---|---|---|---|
| 1 | Distillation unit | 01 | 99639 | Working |
| Total | | | | |

**B. Details of samples analyzed since establishment of SWTL:**

| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages | Amount realized (Rs.) |
|---|---|---|---|---|
| Soil Samples | 4636 | 4119 | 4042 | 305828 |
| Water Samples | 1344 | 1315 | 1217 | 111240 |
| Plant samples | - | | | |
| Manure samples | - | | | |
| Others (specify) | - | | | |
| Total | 5980 | 5434 | 5259 | 417068 |

C. Details of samples analyzed during 2021:

| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages | Amount realized (Rs.) |
|---|---|---|---|---|
| Soil Samples | 62 | 62 | 35 | 6262 |
| Water Samples | 21 | 18 | 15 | 2100 |
| Plant samples | - | - | - | - |
| Manure samples | - | - | - | - |
| Others (specify) | - | - | - | - |
| Total | | | | 8362 |

**11.2 Mobile Soil Testing Kit**

**A. Date of purchase and current status**

| Mobile Kits | Date of purchase | Current status |
|---|---|---|
| 1. | - | - |
| 2. | - | - |
| | | |

**B. Details of soil samples analyzed during 2021 and since establishment with Mobile Soil Testing Kit:**

| | During 2020 | During 2021 | Cumulative progre (Total) |
|---|---|---|---|
| Samples analyzed (No.) | | | |
| Farmers benefited (No.) | | | |
| Villages covered (No.) | | | |

**11.3 Details of soil health cards issued based on SWTL & Mobile Soil Testing Kit:**

| Particulars | Date (s) | Villages (No.) | Farmers (No.) | Samples analyzed (No.) | Soil health cards issued (No.) |
|---|---|---|---|---|---|
| SWTL | | | | | |
| Mobile Soil Testing Kit | - | - | - | - | - |

**11.4 World Soil Health Day celebration**

| Sl. No. | Farmers participated (No.) | Soil health cards issued (No.) | VIPs (MP/ Minister/MLA attended (No.) | Other Public Representatives participated | Officials participated (No.) | Media coverage (No.) |
|---|---|---|---|---|---|---|
| 1 | 20 | 20 | 3 | 0 | 8 | 2 |

## PART XII. IMPACT

**12.A. Impact of KVK activities (Not restricted for reporting period).**

| Name of specific technology/skill transferred | No. of participants | % of adoption | Change in income (Rs.) | |
|---|---|---|---|---|
| | | | Before (Rs./Unit) | After (Rs./Unit) |
| Pruning in Udupi Jasmine to induce off season flowering | 30 | 73% | 151270 | 192722 |
| Demonstration of Spinegourd variety Arka Bharath | 20 | 60% | 559608 | 859025 |
| Management of *Vaucheria* Species Weed and other Weed Species in *kharif* season Paddy of Udupi district | 12 | 10% | 19170 | 27250 |
| Demonstration of Low land submerged tolerant Red rice Paddy variety Shayadri Panchamuki in coastal zone during kharif season | 11 | 10% | 25477 | 28447 |

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

**12.B. Cases of large scale adoption (Please furnish detailed information for each case with suitable photographs)**

**12.C. Details of impact analysis of KVK activities carried out during the reporting period**

## PART XIII - LINKAGES

**13A. Functional linkage with different organizations**

| **Name of organization** | **Nature of linkage** |
|---|---|
| SKDRDP | Training Programme and demonstrations |
| RUDSET | Training Programme |
| Novodaya SHGs | Training Programme |
| KSDA | Demonstration cum Training Programme |
| KCDC | Demonstration cum Training Programme |
| DCCD | Demonstration cum Training Programme |

| Name of organization | Nature of linkage |
|---|---|
| Dept. of Agri. | Training Programme |
| Dept. of Horti. | Training Programme |
| Dept. of Fisheries | Demonstration cum Training Programme |
| Dept. of AH & VS | Training Programme |
| SIRD, Manipal | Training Programme |
| BVT, Manipal | Training Programme |
| Engineering College, Nitte | Agricultural implements |
| MIT | Marketing linkage for Mattugulla, Brinjal |

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

**13B. List of special programmes undertaken by the KVK and operational now, which have been financed by State Govt./Other Agencies**

| Name of the scheme | Date/ Month of initiation | Funding agency | Amount (Rs.) |
|---|---|---|---|
| SCSP Programme | **March-2021** | ATARI Bangalore | 1.00 |
| **2021-22** | | | |
| Evaluation of bio-efficacy of P-PAD 500 SE as pre emergence herbicide for control of weeds in transplanted paddy at different agroclimatic zones of UAHS Shivamogga | June-2021 | Tagros Chemicals India PVT Ltd, Chennai | 6.149 |
| Conducting DAESI Programme | July-2021 | SAMETI , UAS, Bangalore | 7.60 |
| International year of Millet 2023 | September-2021 | DE Grants UAHS, Shivamogga | 0.35 |
| SRP Project- Effect of Salvinia molesta Vermicompost on soil fertility and crop productivity on paddy groundnut cropping system in Udupi district of coastal Karnataka | December-2021 | DR Grants, UAHS, Shivamogga | 0.41 |

| Name of the scheme | Date/ Month of initiation | Funding agency | Amount (Rs.) |
|---|---|---|---|
| CSS-MIDH project on spices<br>Production of Black Pepper, Bush pepper, Beetle vine | December-2021 | DR Grants, UAHS, Shivamogga | 2.96 |
| SRP Project- Response of Paddy to potassium solubilizing bacteria (KSB) and foliar application of potassium coastal Acid soils of Karnataka | December-2021 | DR Grants, UAHS, Shivamogga | 0.41 |
| SRP Project- Assessment of banana cultivars and pre treatment for banana flour production (BAKAHU) | December-2021 | DR Grants, UAHS, Shivamogga | 0.41 |
| One day Field Day on Red rice variety "Sahyadri Panchamukhi" | November-2021 | DE Grants UAHS, Shivamogga | 0.25 |
| FOCT Palm Climbing Training Programme for 2021-22 | November-2021 | Coconut Development Board, GOI, Bangalore | 0.445 |
| Farmers Field Day Programme during the year 2021-22 | November-2021 | Coconut Development Board, GOI, Bangalore | 0.075 |
| SRP Project-Impact of organic farming on livelihood status of organic farmers of Udupi dist | December-2021 | DR Grants, UAHS, Shivamogga | 1.00 |
| Training and awareness programme for farmers on "Energy Efficient Pump sets and Water Conservation" | November-2021 | KREDL, Bangalore | 1.00 |
| Adopted Village | November -2021 | Director of Extension<br>UAHS, Shivamogga | 1.00 |

**13C. Details of linkage with ATMA**

**Coordination activities between KVK and ATMA**

| S. No. | Programme | Particulars | No. of programmes attended by KVK staff | No. of programmes Organized by KVK | Other remarks (if any) |
|---|---|---|---|---|---|
| **01** | **Meetings** | | | | |
| **02** | **Research projects** | | | | |
| | | | | | |
| **03** | Training programmes | Poshan Abhiyan Programme-2 Nos<br>Udupi Jasmine scientific cultivation-2 Nos, Nutritional gardening and vegetable cultivation -1<br>Integrated farming systems<br>Integrated pest and disease management in horticulture crops, IPDM in paddy | 15 | - | - |
| | | | | | |
| **04** | **Demonstrations** | | | | |
| | | | | | |
| **05** | **Extension Programmes** | | | | |
| | Kisan Mela | | | | |
| | Technology Week | | | | |
| | Exposure visit | | | | |
| | Exhibition | | | | |
| | Soil health camps | | | | |
| | Animal Health Campaigns | | | | |

| | | | | | |
|---|---|---|---|---|---|
| | Others (Pl. specify) | | | | |
| **06** | **Publications** | | | | |
| | Video Films | | | | |
| | Books | | | | |
| | Extension Literature | | | | |
| | Pamphlets | | | | |
| | Others (Pl. specify) | | | | |
| **07** | **Other Activities** (Pl.specify) | | | | |
| | Watershed approach | | | | |
| | Integrated Farm Development | | | | |
| | Agri-preneurs development | | | | |

**13D. Give details of programmes implemented under National Horticultural Mission-Nil-**

| S. No. | Programme | Nature of linkage | Funds received if any Rs. | Expenditure during the reporting period in Rs. | Constraints if any |
|---|---|---|---|---|---|
| | | | | | |

**13E. Nature of linkage with National Fisheries Development Board –Nil-**

| S. No. | Programme | Nature of linkage | Funds received if any Rs. | Expenditure during the reporting period in Rs. | Remarks |
|---|---|---|---|---|---|
| | | | | | |

**13F. Details of linkage with RKVY – NA-**

| S. No. | Programme | Nature of linkage | Funds received if any Rs. | Expenditure during the reporting period in Rs. | Remarks |
|---|---|---|---|---|---|
| | | | | | |

**13G. Kisan Mobile Advisory Services**

| Month | No of Advisories | Message type (Text/Voice) | SMS/voice calls sent (No.) | | | | | | Total SMS/Voice calls sent (No.) | Farmers benefitted (No.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Crop | Livestock | Weather | Marketing | Awareness | Other enterprises | | |
| January | - | | | | | | | | | |
| February | - | | | | | | | | | |
| March | - | | | | | | | | | |
| April | 2 | Text | 2 | - | - | - | - | - | 2 | 11337 |
| May | - | | | | | | | | | |
| June | 2 | | 2 | | | | | | 2 | 11344 |
| July | 3 | | 3 | | | | | | 3 | 11360 |
| August | 2 | | 2 | | | | | | 2 | 11366 |
| September | - | | | | | | | | | |
| October | 3 | | 3 | | | | | | 3 | 11379 |
| November | 2 | | 2 | | | | | | 2 | 11390 |
| December | 3 | | 3 | | | | | | 3 | 11394 |
| **Total** | | | | | | | | | **17** | |

## PART XIV- PERFORMANCE OF INFRASTRUCTURE IN KVK

### 14A. Performance of demonstration units (other than instructional farm)

| Sl. No. | Demo Unit | Year of establishment | Area (ha) | Details of production | | | Amount (Rs.) | | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Variety | Produce | Qty. | Cost of inputs | Gross income | |
| 1 | Bhendi plot | 1995 | 0.8 | White velvet | Seeds | 0.37 | 37296 | 51800 | |
| 2 | Bush pepper | 1995 | 0.127 | Panniyur -1 | Seedlings | 107 | 2568 | 4280 | |
| 3 | Jasmine | 1995 | 0.25 | Udupi jasmine | Seedlings | 347 | 9110 | 12145 | |
| 4 | Coconut | 1995 | 0.25 | Coconut | Seedlings | 490 | 23552 | 29440 | |

### 14B. Performance of instructional farm (Crops) including seed production – Nil-

| Name of the crop | Date of sowing | Date of harvest | Area (ha) | Details of production | | | Amount (Rs.) | | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Variety | Type of Produce | Qty. | Cost of inputs | Gross income | |
| Cereals | | | | | | | | | |
| | | | | | | | | | |
| Pulses | | | | | | | | | |
| | | | | | | | | | |
| Oilseeds | | | | | | | | | |
| | | | | | | | | | |
| Fibers | | | | | | | | | |
| | | | | | | | | | |
| Spices & Plantation crops | | | | | | | | | |
| | | | | | | | | | |

| Name of the crop | Date of sowing | Date of harvest | Area (ha) | Details of production | | | Amount (Rs.) | | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Variety | Type of Produce | Qty. | Cost of inputs | Gross income | |
| Floriculture | | | | | | | | | |
| | | | | | | | | | |
| Fruits | | | | | | | | | |
| | | | | | | | | | |
| Vegetables | | | | | | | | | |
| | | | | | | | | | |
| Others (specify) | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

**14C. Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)**

| Sl. No. | Name of the Product | Qty (Q) | Amount (Rs.) | | Remarks |
|---|---|---|---|---|---|
| | | | Cost of inputs | Gross income | |
| 1 | Sahyadri Microbial enriched coconut fronds vermin compost | 0.3 | 5580 | 7500 | |
| 2 | Sahyadri Thrishool Microbial Consortia | 0.694 | 63808 | 79760 | |
| 3 | Sahyadri Vermi wash | 0.33 | 480 | 660 | |

**14D. Performance of instructional farm (livestock and fisheries production)**

| Sl. No | Name of the animal / bird / aquatics | Details of production | | | Amount (Rs.) | | Remarks |
|---|---|---|---|---|---|---|---|
| | | Breed | Type of Produce | Qty. | Cost of inputs | Gross income | |
| 1 | Poultry birds | Swarnadhara/Giriraja | Birds | 1659 | 158210 | 186130 | |
| 2 | Fish | Common carp | Fingerlings | 2700 | 3200 | 5400 | |
| 3 | Fish | Rohu | Fingerlings | 12300 | 19680 | 24600 | |
| 4 | Fish | Jayanthi Rohu | Fingerlings | 9770 | 14655 | 19540 | |

**14E. Utilization of hostel facilities**

Accommodation available (No. of beds) **- Nil**

| Months | No. of trainees stayed | Trainee days (days stayed) | Reason for short fall (if any) |
|---|---|---|---|
| January | | | |
| February | | | |
| March | | | |
| April | | | |
| May | | | |
| June | | | |
| July | | | |
| August | | | |
| September | | | |
| October | | | |
| November | | | |
| December | | | |

**14F. Database management**

| S.No | Database target | Database created |
|---|---|---|
| | | Database Management in OLRS format designed by ATARI, Bengaluru<br>Upload the KVK Knowledge Network<br>Upload the KVK, Udupi website<br>Upload the KVK, Udupi Facebook & Youtube<br>Upload the Krishi Portal<br>KMAS - Four messages per month<br>Reports - MPR, Annual Report, Action Plan Report, EPCB, ZREP, SAC |

**14G. Details on Rain Water Harvesting Structure and micro-irrigation system – Nil-**

**(a) Rain Water Harvesting Structure**

| Amount sanction (Rs.) | Expenditure (Rs.) | Details of infrastructure created / micro irrigation system etc. | Activities conducted | | | | | Quantity of water harvested in '000 litres | Area irrigated / utilization pattern |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. of Training programmes | No. of Demonstration s | No. of plant materials produced | Visit by farmers (No.) | Visit by officials (No.) | | |
| | | | | | | | | | |
| | | | | | | | | | |

**(b) Micro-irrigation systems**

| Amount sanction (Rs.) | Expenditure (Rs.) | Details of infrastructure created / micro irrigation system etc. | Activities conducted | | | | | Quantity of water harvested in '000 litres | Area irrigated / utilization pattern |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. of Training programmes | No. of Demonstration s | No. of plant materials produced | Visit by farmers (No.) | Visit by officials (No.) | | |
| | | | | | | | | | |
| | | | | | | | | | |

## PART XV – SPECIAL PROGRAMMES

### 15.1 Paramparagath Krishi Vikas Yojana (PKVY) – NA-

| Sl No. | Name of cluster village | Initial soil fertility status (Average of cluster village) | | | | Facilities created for organic source of manure | Name of Crops cultivated | Variety | Organic inputs applied including bio-agents and botanicals treatment | Yield (q/ha) | Economics | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aval. N | Aval. P | Aval. K | OC % | | | | | | Cost of cultivation (Rs/ha) | Net returns (Rs/ha) |
| 1 | 1. | | | | | | | | | | | |
| | 2. | | | | | | | | | | | |
| 2 | 1. | | | | | | | | | | | |
| | 2. | | | | | | | | | | | |

### 15.2 District Agriculture Meteorological Unit (DAMU) -Nil-

| | Agro advisories | | | Farmers awareness programmes | |
|---|---|---|---|---|---|
| Sl No. | No of Agro advisories generated | No of farmers registered for agro advisories | No of farmers benefitted | No of programmes | No of farmers benefitted |
| 1 | | | | | |
| 2 | | | | | |

### 15.3 Fertilizer awareness programmeorganised

| State | Name of KVK | Details of Activities/programme Organised | Number of Chief Guests | No. of Farmers attended program | Total participants |
|---|---|---|---|---|---|
| Karnataka | Udupi | Awareness on IFFCO Nano urea liquid | 3 | 30 | 33 |

**15.4 Seed Hub- Nil-**

| ***Crops*** | ***Variety*** | ***Year of release*** | ***Production*** | | | | ***No of farmers benefited/Sold to no. of farmers*** | ***Quantity seed sold (q)*** |
|---|---|---|---|---|---|---|---|---|
| | | | ***Target (q)*** | ***Area (ha.)*** | ***Actual Production (q)*** | ***Category (FS/CS)*** | | |
| | | | | | | | | |

**15.5 CFLD on Oilseeds: -NA-**

| Sl.No. | Crop | Varieties demonstrated and check | Allocated | | Implemented | |
|---|---|---|---|---|---|---|
| | | | Area (ha) | Demos (No.) | Area (ha) | Demos (No.) |
| | | | | | | |
| | Total | | | | | |

**15.6 CFLDs on Pulses: -NA-**

| Sl.No. | Crop | Varieties demonstrated and check | Allocated | | Implemented | |
|---|---|---|---|---|---|---|
| | | | Area (ha) | Demos (No.) | Area (ha) | Demos (No.) |
| | | | | | | |
| | Total | | | | | |

### 15.7 Krishi Kalyan Abhiyan (Aspirational districts) -NA-

| Type of Activity | Date(s) conducted | No. of farmers (General) | | | No. of farmers SC / ST | | | No.of extension personnel | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| | | | | | | | | | | |

### 15.8 Micro-Irrigation-NA-

| Type of Activity | Date(s) conducted | No. of farmers (General) | | | No. of farmers SC / ST | | | No. of extension personnel | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| | | | | | | | | | | |

### 15.9 Tribal Sub-Plan (TSP) – Nil-

| Farmer Training | | Women Farmer Training | | Rural Youths | | Extension Personnel | | OFT (No of Technologiess | Number of farmers involved | | | Participants in extension activities (No.) | Production of seed (q) | Production of Planting material (Number in lakh) | Production of Livestock strains (Number in lakh) | Production of fingerlings (Number in lakh) | Testing of Soil, water, plant, manures samples (Number) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of Trainings /Demos | No. of Farmers | No. of Trainings/ Demos | No. of Women Farmers | No. of Trainings/ Demos | No. of Youths | No. of Trainings/ Demos | No. of Ext. Person | | On-farm trials | Frontline demos | Mobile agro-advisory to farmers | | | | | | |
| | | | | | | | | | | | | | | | | | |

**15.10 SCSP-NA-**

| Farmer Training | | Women Farmer Training | | Rural Youths | | Extension Personnel | | OFT (No of Technologies) | Number of farmers involved | | | Participants in extension activities (No.) | Production of seed (q) | Production of Planting material (Number in lakh) | Production of Livestock strains (Number in lakh) | Production of fingerlings (Number in lakh) | Testing of Soil, water, plant, manures samples (Number) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of Trainings /Demos | No. of Farmers | No. of Trainings /Demos | No. of Women Farmers | No. of Trainings /Demos | No. of Youths | No. of Trainings /Demos | No. of Ext. Person | | On-farm trials | Frontline demos | Mobile agro-advisory to farmers | | | | | | |
| | | | | | | | | | | | | | | | | | |

**15.11 NARI – NA-**

| Activity | Achievement | |
|---|---|---|
| | **Number of activity** | **No. of farmers/ beneficiaries** |
| OFTs – Nutritional Garden (activity in no. of Unit) | | |
| OFTs – Bio-fortified Crops (activity in no. of Unit) | | |
| OFTs – Value addition(activity in no. of Unit/Enterprise) | | |
| OFTs - Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise) | | |
| FLDs – Nutritional Garden (activity in no. of Unit) | | |
| FLDs – Bio-fortified Crops (activity in no. of Unit) | | |
| FLDs – Value addition(activity in no. of Unit/Enterprise) | | |
| FLD- Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise) | | |
| Trainings | | |
| Extension Activities | | |

## 15.12 KVK Portal

| No. of Events added by KVKs | No. of Facilities added by KVKs | Filled Report on Package of Practices (Y/N) | | | | Filled Profile Report (Y/N) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Crop | Livestock | Fisheries | Horticulture | Employees | Posts | Finance | Soil Health Cards | Appliances | Crops | Resources | Fish |
| 454 | 3 | Y | - | - | Y | Y | Y | Y | Y | Y | Y | Y | Y |

## 15.13 KSHAMTA–NA-

| **Number of Adopted Villages** | **No. of Activities** | | **No. of farmers benefited** | |
|---|---|---|---|---|
| | **Demo** | **Training** | **Demo** | **Training** |
| | | | | |

## 15.14 DFI

| Sl.No. | District | Taluks | Villages | Farmers (No.) | Average Benchmark Income (Rs/year) | Crops/ enterprises | KVK Interventions | Additional Net Income generated due to KVK interventions (Rs/year) | Total income of farmer (Rs/year) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Udupi | Brahmavar, Karkala | Marne Shirlalu, Mandarthi and surrounding villages | 50 | 345370 | Paddy, coconut, arecanut, cashew, black pepper, cocoa, banana, vegetables and diary | FLD, OFT, Training programmes, Field visits and Exposure visits | 457537 | 802907 |

## PART XVI - FARMERS FEEDBACK ON ASSESSED/DEMONSTRATED TECHNOLOGIES OF CROPS / LIVESTOCK

### 16.1 Farmers feedback on performance of crop varieties/hybrids

| Sl. No. | Crop varieties/hybrids assessed/ demonstrated | Farmer's feedback |
|---|---|---|
| 1 | Spinegourd (Arka Bharath) | Yellowing of fruits is observed at early matured stage. Hence, its market value decreases |
| 2 | Paddy - Sahyadri Panchamuki | Flood tolerant and 10-12 early harvesting |

### 16.2 Farmers feedback on performance of agronomic practices

| **Sl. No.** | **Agronomic practices** | **Farmer's feedback** |
|---|---|---|
| 1 | Weed management – Vaucheria species | Very effective control of vaucheria species through pre and post emergent herbicides |

### 16.3 Farmers feedback on performance of pest and disease management in crops

| **Sl. No.** | **Pest and disease management in crops** | **Farmer's feedback** |
|---|---|---|
| 1 | Quick wilt management in black pepper | Effective management practice for controlling quick wilt in black pepper and also it enhances the yield |

### 16.4 Farmers feedback on performance of farm machinery technologies

| **Sl. No.** | **Farm machinery technologies** | **Farmer's feedback** |
|---|---|---|
| **1** | | |

### 16.5 Farmers feedback on performance of livestock and fisheries technologies

| **Sl. No.** | **Livestock/fisheries technologies** | **Farmer's feedback** |
|---|---|---|
| | | |

## PART XVII - FINANCIAL PERFORMANCE

### 17A. Details of KVK Bank accounts

| Bank account | Name of the bank | Location | Branch code | Account Name | Account Number | MICR Number | IFSC Number |
|---|---|---|---|---|---|---|---|
| With Host Institute | - | - | - | - | - | - | - |
| With KVK | Canara Bank | Varambally, Brahmavar | 0466 | Senior Scientist & Head | 0466101172871<br>0466101173629 | 576015010 | CNRB0000466 |

### 17B. Utilization of KVK funds during the year 2020-21(April to March) (Rs. in lakh)

| S. No. | Particulars | Sanctioned | Released | Expenditure |
|---|---|---|---|---|
| **A. Recurring Contingencies** | | | | |
| 1 | **Pay & Allowances** | 13081000 | 13081000 | 11733740 |
| 2 | **Traveling allowances** | 50000 | 50000 | 43000 |
| 3 | **Contingencies** | | | |
| *A* | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 225000 | 225000 | 225000 |
| *B* | POL, repair of vehicles, tractor and equipments | 200000 | 200000 | 200000 |
| *C* | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained) | 70000 | 70000 | 69996 |
| *D* | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | 60000 | 60000 | 59970 |
| *E* | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | 238000 | 238000 | 236184 |

| S. No. | Particulars | Sanctioned | Released | Expenditure |
|---|---|---|---|---|
| *F* | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | 95000 | 95000 | 94756 |
| *G* | Training of extension functionaries | 20000 | 20000 | 19703 |
| *H* | Nutri gardens | 25000 | 25000 | 24938 |
| *I* | EDP/Innovative activities | 30000 | 30000 | 29398 |
| *J* | Extension Activities | 30000 | 30000 | 29919 |
| *K* | Maintenance of buildings | 50000 | 50000 | 49839 |
| *L* | Establishment of Soil, Plant & Water Testing Laboratory | 25000 | 25000 | 24562 |
| *M* | Library | 5000 | 5000 | 5000 |
| **TOTAL (A)** | | **14204000** | **14204000** | **12846005** |
| **B. Non-Recurring Contingencies** | | | | |
| 1 | **Works** | | | |
| 2 | **Equipment including SWTL & Furniture** | | | |
| | **a. Furniture & Fixture** | 71500 | 71500 | 71100 |
| | **b. Computer laptop accessories, Equipments etc** | 171500 | 171500 | 171496 |
| 3 | **Vehicle** (Four wheeler/Two wheeler, please specify) | | | |
| 4 | **Library** (Purchase of assets like books & journals) | | | |
| **TOTAL (B)** | | **243000** | **243000** | **242596** |
| **C. REVOLVING FUND** | | | | |
| **GRAND TOTAL (A+B+C)** | | **14447000** | **14447000** | **13088601** |

**17B. Utilization of KVK funds during the year 2021-22 (April to December) (Rs. in lakh)**

| S. No. | Particulars | Sanctioned | Released | Expenditure |
|---|---|---|---|---|
| **A. Recurring Contingencies** | | | | |
| 1 | **Pay & Allowances** | 12700000 | 12700000 | 8524074 |
| 2 | **Traveling allowances** | 100000 | 100000 | 32583 |
| 3 | **Contingencies** | | | |
| *A* | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 245000 | 245000 | 244828 |
| *B* | POL, repair of vehicles, tractor and equipments | 148000 | 148000 | 139348 |
| *C* | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained) | 100000 | 100000 | 85346 |
| *D* | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | 75000 | 75000 | 51994 |
| *E* | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | 405000 | 405000 | 375635 |
| *F* | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | 164000 | 164000 | 129713 |
| *G* | Training of extension functionaries | 30000 | 30000 | 28308 |
| *H* | Extension Activities | 50000 | 50000 | 49175 |
| *I* | EDP/Innovative activities | 75000 | 75000 | - |
| *J* | Farmers Field School | 30000 | 30000 | 27075 |
| *K* | Maintenance of buildings | | | |
| *L* | Establishment of Soil, Plant & Water Testing Laboratory | 25000 | 25000 | - |
| *M* | Library | 5000 | 5000 | 4750 |
| **TOTAL (A)** | | **14152000** | **14152000** | **9692829** |
| **B. Non-Recurring Contingencies** | | | | |
| 1 | **Works** | | | |

| S. No. | Particulars | Sanctioned | Released | Expenditure |
|---|---|---|---|---|
| 2 | **Equipment 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)** | | **14152000** | **14152000** | **9692829** |

**17C. Status of revolving fund (Rs. in lakh) for the last three years**

| Year | Opening balance as on 1st January | Income during the year | Expenditure during the year | Net balance in hand as on 31st December of each year |
|---|---|---|---|---|
| January to December 2019 | 825078 | 729391 | 1427927 | 1256542 |
| January to December 2020 | 1256542 | 698910 | 787776 | 1447576 |
| January to December 2021 | 1447576 | 874883 | 656718 | 1665741 |

**19. Details of HRD activities attended by KVK staff**

| S. N. | Date | Name of the staff | Duration | Institute where attended | Title of the training programme |
|---|---|---|---|---|---|
| 1 | 23.03.2021 to 26.03.2021 | Dr. Sachin U.S. | 4 Online | MANAGE | Climate change Adoption in Agriculture |
| 2 | 02.03.2021 to 22.03.2021 | Dr. Sachin U.S. | 21 Online | Indira Gandhi Krishi Vishwavidyala, Raipur (Chattisgarh) and National Agriculture Development Co-operative Ltd. Baramulla-193103, J&K | Mushroom Production and Processing technology |
| 3 | 29.05.2021 | Dr. N.E. Naveen | 1 | ISWS | National Seminar webinar on " Aquatic weed management" Problem and their management for improving water productivity |

| S. N. | Date | Name of the staff | Duration | Institute where attended | Title of the training programme |
|---|---|---|---|---|---|
| 4 | 14.06.2021 | Dr. N.E. Naveen | 1 | ATARI Bangalore & UAHS | Capacity development programme on virtual farmers field school |
| 5 | 14.06.2021 | Dr. N.E. Naveen | 1 | ATARI Bangalore & UAHS | Capacity development programme on virtual farmers field school |
| 6 | 22.06.2021 | Dr. N.E. Naveen | 1 | ISWS Jabalpura | Role of weed biology in improving weed management strategies |
| 7 | 19.06.2021 | Dr. H.S. Chaitanya | 1 | MPUAI, Udaipur | Establishment of processing based enterprise under VATICA programme |
| 8 | 14.06.2021 | Dr. H.S. Chaitanya<br>Dr. B Dhananjaya | 1 | UAHS Shivamogga | Capacity Development on VFFS, Online programme |
| 9 | 01.06.2021 | Dr. H.S. Chaitanya | 10 | Krishi Vishwa Vidyalaya Pandribai West Bengal | National training programme on "Medicinal and Aromatic plants Diversity utilization and their conversation" |
| 10 | 07.07.2021 | Dr. H.S. Chaitanya | 1 Online | ICAR National Research centre for banana | Sustainable integrated cropping and Farming system models with special reference to banana for enhanced income of farmers |
| 11 | 19.07.2021 to 20.07.2021 | Dr. H.S. Chaitanya | 2 Online | UHS, Bagalkot, COH Bidar | Canopy Architecture management in perenmeal commercial horticultural crops |
| 12 | 30.07.2021 to 31.07.2021 | Dr. H.S. Chaitanya<br>Dr. B Dhananjaya | 2<br>Online | ATARI Bengaluru | Zonal workshop 2021, Theme: Doubling farmers income through training KVK's with inclusive technologies and innovative approaches |
| 13 | 30th & 31st July 2021 | Dr. N.E. Naveen | 2 | ICAR ATARI-II | Zonal workshop on "Doubling the farmers income through |

| S. N. | Date | Name of the staff | Duration | Institute where attended | Title of the training programme |
|---|---|---|---|---|---|
| | | | | | strengthening KVKs with inclusive technologies and Innovate approach |
| 14 | 09.08.2021 to 11.08.2021 | Dr. H.S. Chaitanya | 3 | IIHR, Bengaluru | Road map for KVKs to enhance mushroom production and consumption |
| 15 | 15-17$^{th}$ September 2021 | Dr. N.E. Naveen | 3 | Swadeshi Vijnana Andolana – Karnataka (Karnataka Unit of Vijnana Bharathi) & Karanataka Science & Technology Academy (KSTA),Govt. of Karnataka | National Level Conference |
| 16 | 21.10.2021 to 23.10.2021 | Dr. Sachin U.S. | 3 Online | ICAR-NCIPM | Advances in integrated Pest Management Strategies for Important crops of Karnataka, Kerala &Lakshdeep for Atari Zone XI |
| 17 | 13 to 18$^{th}$ December 2021 | Dr. N.E. Naveen | 6 | Indian Society of Weed Sciences, ICAR- Directorate of weed Research, Jabalpur | National Level Training programme |
| 18 | 17.12.2021 to18.12.2021 | Dr. H.S. Chaitanya<br>Dr. Sachin U.S. | 2 | ICAR-IIHR, Bangalore | Special online training programme on ICAR-IIHR<br>Recent technologies released from IIHR, Bengaluru |
| 19 | 22.12.2021 to 23.12.2021 | Dr. B Dhananjaya | 2 | Acharya N G Ranga Agricultural University, Tirupathi | Transformation of Agricultural Extension- Strategies and effective reformation (TAESERE-2021) |