

KRISHI VIGYAN KENDRA DAKSHINA KANNADA

ANNUAL REPORT- 2021

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

ICAR –KRISHI VIGYAN KENDRA, DAKSHINA KANNADA

P.B. No. 515, Kankanady, Mangaluru-575002, Karnataka

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**KARNATAKA VETERINARY, ANIMAL AND FISHERIES SCIENCES UNIVERISITY,
NANDINAGAR, BIDAR – 585 401**



GENERAL INSTRUCTIONS

Please read the following instructions very carefully before starting preparation of the report.

- Annual report is the most important document for the KVK and it directly reflects the overall achievements pertaining to the reported period. Hence due care needs to be given by each KVK while preparing the report.
- Period of Report is from 01 January, 2021 to 31 December, 2021.
- Action photographs with relevant captions covering all OFTS/FLDS/TRAINING/EXTENSION activities of the KVK in High resolution should be submitted separately in a CD/DVD along with this report. A part from this, soft copy of the activity wise photos may be submitted in JPEG format.
- Prepare Summary tables carefully tallying with the relevant portions of the main report on all aspects.
- Retain the blank column and rows as such and do not merge the cells. Please specify NIL, wherever not applicable or details are not available.
- Check the names of varieties and hybrids and specify in the report.
- Check the units and totals of each data table.
- Extension activity under celebrations for each important day, please insert separate rows and give appropriate data separately. Clubbing of data should be avoided.
- Success stories/case studies should be supported with data tables and graphs. Without photos success stories will not be considered for inclusion in Annual Report of ATARI.

PART I – GENERAL INFORMATION 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 | | |
| ICAR-Krishi Vigyan Kendra (D.K.), Kankanady, Mangaluru- 575002. | 0824- 2431872 | - | Kvk.DakshinaKannada@icar.gov.in , kvdkmlr@gmail.com kvdkd@rediffmail.com | www.kvdkd.org |

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

| Address | Telephone | | E mail | Web Address |
|---|------------------|------------------|--|--|
| | Office | Fax | | |
| Vice-Chancellor Karnataka Veterinary Animal & Fisheries Sciences University Nandinagar, P.B.No.- 6, Bidar -585 401 | 08482- 245264 | 08482- 245107 | vckvafsub@gmail.com vckvafsu@yahoo.co.in dekavafsu@gmail.com | www.kvafsu.kar.nic.in |

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

| Name | Telephone / Contact | | |
|------------------|---------------------|------------|--|
| | Residence | Mobile | Email |
| Dr. T.J. Ramesha | - | 8794706468 | drtjramesha1970@gmail.com |

1.4. Year of sanction:12.08.2004

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. Asst.) | Pay Scale | Basic pay | Date of joining KVK | Permanent /Temporary | Category (SC/ST/ OBC/ Others) |
|---------|-----------------------------------|--------------------------|-------------------------|------|---------------------------------|---|---------------|----------------------|---------------------|----------------------|-------------------------------|
| 1 | Head/Senior Scientist | Dr. T.J. Ramesha | Senior Scientist & Head | M | Fisheries | Ph.D., Aquaculture | 131400-211500 | 143600 | 29.06.2019 | Permanent | OBC |
| 2 | Scientist/SMS | Dr. Shivakumar R | Scientist | M | Veterinary | M.V.Sc. | 57700-182400 | 79900 | 21.10.2021 | Permanent | SC |
| 3 | Scientist/SMS | Dr. Chethan N. | Scientist | M | Fisheries | Ph.D., Aquatic Environment Management | 57700-182400 | 61200 | 01.06.2019 | Permanent | OBC |
| 4 | Scientist/SMS | Dr. Kedarnath | Scientist | M | Plant Protection and Entomology | Ph.D., Plant Pathology | 57700-182400 | 61200 | 03.06.2019 | Permanent | General |
| 5 | Scientist/SMS | Dr. Naveen Kumar B.T. | Scientist | M | Agronomy | Ph.D., Agronomy | 57700-182400 | 61200 | 03.06.2019 | Permanent | ST |
| 6 | Scientist/SMS | Dr. Mallikarjun L. | Scientist | M | Soil Science | Ph.D., Soil Science | 57700-182400 | 61200 | 06.06.2019 | Permanent | OBC |
| 7 | Scientist/SMS | Dr. Rashmi R. | Scientist | F | Horticulture | Ph.D., Horticulture | 57700-182400 | 61200 | 06.06.2019 | Permanent | OBC |
| 8 | Programme Assistant (Lab Tech.) | - Vacant- | Programme Assistant | - | - | - | - | - | - | - | - |
| 9 | Programme Assistant (Computer) | Mr. Sathisha Naik K. | Programme Assistant | M | Computer | M.Com. ADCST (Comp.) | 9300-34800 | 18180 | 24.01.2011 | Permanent | ST |
| 10 | Programme Assistant/ Farm Manager | - Vacant- | Programme Assistant | - | - | - | - | - | - | - | - |
| 11 | Assistant | Mrs. Sowmya D.K. | Senior Assistant | F | Accounts | - | 37900-70850 | 39800 | 31.05.2019 | Permanent | OBC |
| 12 | Jr. Stenographer | Mrs. Deepa | Computer Operator | F | - | - | - | 30250/- Consolidated | 02.11.2011 | Temporary | OBC |
| 13 | Driver - 1 | Mr.Somashekharai ah S.M. | Driver-1 (Tractor) | M | - | - | - | 27550/- Consolidated | 26.09.2014 | Temporary | OBC |
| 14 | Driver - 2 | Mr. Keshava | Driver-2 (Jeep) | M | - | - | - | 21300/- Consolidated | 25.05.2010 | Temporary | OBC |
| 15 | SS-1 | Mr. Ashwith Kumar | SS-1 Cook cum caretaker | M | - | - | - | 21300/- Consolidated | 21.10.2011 | Temporary | OBC |
| 16 | SS-2 | Mrs. Vidyavathi | SS-2 Messenger | F | - | - | - | 16900/- Consolidated | 25.04.2012 | Temporary | SC |

1.6. Total land with KVK (in ha): 25.99ha

| S. No. | Item | Area (ha) |
|--------|---------------------------|-----------|
| 1 | Under Buildings | 2.00 |
| 2. | Under Demonstration Units | 0.11 |
| 3. | Under Crops | 6.89 |
| 4. | Orchard/Agro-forestry | - |
| 5. | Others | 16.99 |
| | Total | 25.99 |

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 | 24.11.2007 | 550 | 42,25,000.00 | - | - | - |
| 2. | Farmers Hostel | ICAR | 24.11.2007 | 300 | 35,72,000.00 | - | - | - |
| 3. | Staff Quarters | ICAR | 24.11.2007 | 400 | 32,35,000.00 | - | - | - |
| | 1 | - | - | - | - | - | - | - |
| | 2 | - | - | - | - | - | - | - |
| | 3 | - | - | - | - | - | - | - |
| | 4 | - | - | - | - | - | - | - |
| | 5 | - | - | - | - | - | - | - |
| | 6 | - | - | - | - | - | - | - |
| 4. | Demonstration Units | | | | | | | |
| | 1.Fisheries | ICAR | 20.02.2007 | 80 | 1,75,000.00 | - | - | - |
| | 2. Horticulture | ICAR | 12.05.2008 | 260 | 2,00,000.00 | - | - | - |
| | 3 | - | - | - | - | - | - | - |
| | 4 | - | - | - | - | - | - | - |
| 5 | Fencing | - | - | - | - | - | - | - |
| 6 | Rain Water harvesting system | - | - | - | - | - | - | - |
| 7 | Threshing floor | - | - | - | - | - | - | - |
| 8 | Farm godown | - | - | - | - | - | - | - |
| 9 | | - | - | - | - | - | - | - |
| 10 | | - | - | - | - | - | - | - |

B) Vehicles

| Type of vehicle | Year of purchase | Cost (Rs.) | Total kms. Run | Present status |
|--------------------------|------------------|------------|----------------|--------------------------|
| M.F. Tractor 1035 | 2005 | 5,00,000 | 287 hrs. | Not in working condition |
| Hero Honda (Bike) | 2006 | 40,000 | 39799 kms | Good condition |
| Aviator | 2009 | 50,000 | 33356 kms | Good condition |
| Tractor John Deere-5045D | 2016 | 6,84,324 | 471.40 hrs. | Good condition |
| Bolero Power plus | 2019 | 8,00,000 | 21349 kms | Good condition |

C) Lab equipment & AV aids

| Name of the equipment | Year of purchase | Quantity (No.) | Cost (Rs.) | Present status |
|---|------------------|----------------|------------|--------------------------|
| Lab equipment | | | | |
| Mini Soil Test Kit | 2016 | 1 | 86000.00 | Not in working condition |
| Oxygen Gas cylinder(10 Ltr C) | 2016 | 1 | 4748.00 | Good |
| Microwave oven | 2016 | 1 | 14800.00 | Good |
| AV aids | | | | |
| Xerox Machine | 2006 | 1 | 75,000.00 | Not in working condition |
| Computer & Accessories | 2006-07 | 3 | 98,890.00 | Not in working condition |
| Generator | 2011 | 1 | 99,955.00 | Good |
| EPBX | 2011 | 1 | 49,455.00 | Not in working condition |
| Digital Camera | 2006 | 1 | 20,000.00 | Not in working condition |
| Magnetic White Board | 2008 | 1 | 3,800.00 | Good |
| Desktop HP-Pavilion 6710in INTEL DUAL CORE | 2011 | 1 | 30,900.00 | Good |
| LAPTOP HP PAVILION DV6-3120TX | 2011 | | 37500.00 | Good |
| UPS Frontech 800 Va. | 2011 | 1 | 3000.00 | Not in working condition |
| APC Backup 800 Va. | 2013 | 1 | 1700.00 | Not in working condition |
| Epson Data Projector EB-X02 | 2014 | 1 | 37940.00 | Good |
| Mike set-AHUJA | 2014 | 1 | 36317.00 | Good |
| Nesara 500 ltr Fpcsolar water Heater | 2014 | 1 | 72650.00 | Good |
| 12 V/110 Tubular Battery with Trolley | 2014 | 1 | 26793.00 | Good |
| 1.4 VA/24V Emeric make UPS | 2014 | 1 | 7407.00 | Good |
| Panasonic 2.0 Ton Split AC CS CU-UC24QKY2 2* & V-Guard VG 500 5 KVA Voltage Stabilizer | 2014 | 1 | 141000 | Good |
| LG LED T.V. Model 32LB550A-ATR | 2014 | 1 | 21500.00 | Good |

| | | | | |
|--|------|---|-----------|------|
| Camera DS 200 Nikon | 2016 | 1 | 28000.00 | Good |
| Benro Tripod (R-T 600 EX) Camera stand | 2016 | 1 | 2500.00 | Good |
| Sub woofer Mitashi 2.0 C.H. TNR 60 Fur | 2016 | 1 | 7490.00 | Good |
| LENOVO DESKTOP-G Lenovo Idea Center-3 | 2021 | 5 | 243000.00 | Good |
| DELL Desktop-G DELL INSPIRON 3891 Desk Top Intel Core I5-10400/Windows 10/MS Office | 2021 | 1 | 43644.00 | Good |
| Dell Desktop-G, DELL -3668, Desktop/10 th Gen/Core-i3 | 2021 | 1 | 31779.00 | Good |
| FRONTECH UPS-G | 2021 | 1 | 847.00 | Good |

D) Farm equipment and implements

| Name of the equipment/implement | Year of purchase | Quantity (No.) | Cost (Rs.) | Present status |
|---------------------------------|------------------|----------------|-------------|--|
| Sprayers | 2005 | 1 | 2,640.00 | Good |
| Power sprayer | 2008 | 1 | 4,800.00 | Good |
| Drum Seeder & Cono weeder | 2005 | 2 | 2,600.00 | Good |
| Paddy Planting Marker | 2005 | 1 | 1,350.00 | Good |
| Weed cutter | 2008 | 1 | 13,000.00 | Good |
| Power tiller | 2011 | 1 | 1,50,000.00 | Good |
| Milking Machine | 2012 | 1 | 24961.00 | Good |
| Plough | 2017 | 1 | 35000.00 | Good |
| Drilling Machine | 2016 | 1 | 1150.00 | Good |
| Terrier Blade | 2017 | 1 | 45250.00 | Good |
| STD Rotary Tiller RT/ID15 5SG | 2017 | 1 | 96000.00 | Good |
| Full Kagi Wheel for Tractor | 2017 | 1 | 35840.00 | Good |
| Fish Solar Dryer | 2020 | 1 | | Good Provided under TSP programme of ICAR-CIFT, Cochin |

1.8. Details of SAC meeting organized

| Date | Number of Participants | Salient Recommendations | Action taken | Remarks, if any |
|------------|------------------------|--|--|-----------------|
| 23.01.2021 | 54 | Dr.Venkatasubramaian, Director, ICAR-ATARI, Bangaluru | | |
| | | Establishment of Compost production unit for managing Agricultural wastes generated in KVK fields. | By using KVK farm waste about 120 kgs of vermicompost and 17.2 kgs of earthworms were produced and distributed to 15 and 12 farmers, respectively. | - |
| | | For doubling the farmer income all the components of crop production need to be integrated to enhance the productivity and decrease expenses of the resources like Five J's <i>i.e.</i> , Jal - water, Jamin – land, Janwar – animal, Jangal – forest and Jan – human resource for sustainable income. | IFS including goat, dairy, paddy, horticulture crops and value addition has been implemented and adopted in Mrs. Anitha M's field at Bettampady Village. | - |
| | | Prepare a success story of “swarnadhara” backyard poultry and provide technological inputs to backyard poultry farmers. | Success story on swarnadhara backyard poultry is under progress. Technical guidance on swarnadhara backyard poultry rearing has been provided to 114 farmers at the time of distribution of chicks at kvk farm. Total number of farmers trained are as follows March 2021 – 31 farmers June 2021 – 51 farmers October – 32 | - |
| | | Requested the KVAFSU, Bidar to take necessary steps for filling up the vacant posts of KVK on a priority basis | Dr. Shivakumar R., Scientist (Animal Science) has been transferred to KVK from the university on priority basis. | - |
| | | Suggested for utilization of contingency fund for KVK developmental activities. | Paddy seeds (MO4 and Sahyadri Panchamukhi), swarnadhara backyard poultry chicks, fish fingerlings, vermicompost and earthworms, okra and fish feed were provided to farmers under KVK developmental activities. | - |
| | | He instructed to prepare the detailed report on soil sample analysis and soil test-based recommendations of fertilizers for the crops. Popularization of soil moisture detector among the farming community. | There are 214 soil samples from 141 villages and 127 water samples from 108 villages were analyzed and recommended soil test-based fertilizer application to Arecanut, Coconut, Black Pepper and Rice crops for 214 farmers. Application Lime and other soil amendments like Dolomite and Set right were advised to manage the soil acidity also | - |

| | | | | |
|--|--|--|--|---|
| | | | advised to apply Rock phosphate instead of other phosphatic fertilizer to minimize Phosphate fixation in soils. Availability of green manure seeds made available in our KVK throughout the year and informing farmers to use for improvement of soil fertility and productivity. | |
| | | He suggested for producing cost effective quality feed for the fish which has ample scope in the aquaculture sector. | For fish feed preparation availability of raw materials in the locality is crucial which will have the impact on cost of production and hence awareness and trainings were conducted to produce the crops. Mr. Sidharth, from Puttur under KVK technical guidance has proposed for fish feed mill under PMMSY scheme. | - |
| | | Create awareness about the Government schemes related to agriculture and allied sectors to the farmers | Capacity development programmes, website links of different line departments and institutes were updated to KVK website. Created awareness on government schemes related to agriculture and allied sectors to the farmers during capacity developmental programmes. | - |
| | | To be addressed through KVK action plan. | | |
| | | Organization of Krishi Melas at district level | Unable to organise district level Krishi mela due to Covid -19 and no source of fund. | - |
| | | Enhancement of Technological products availability to the farmers | Provided technological products (Fish fingerlings, Paddy seeds, fodder root slips, vermicompost, earthworms and azolla) and also facilitated other inputs such as Trichoderma, AMC and Green manure crop seeds to farmers under extension activities and demonstrations. | - |
| | | He suggested to provide remedies to control wild animals' menace | Conducted capacity development programme for 59 farmers on wild animals' management by using solar operated tools on 25.02.2022. Dr. Sunil, Assistant professor, Mangaluru Institute of Technology and Shri. Gowtham Naik, Assistant professor, Sahyadri Engineering College were participated as resource persons and provided measures to manage wild animals by using solar operated tools. | - |
| | | He demanded for the introduction of improved varieties of fodder crops for their region. | Demonstration on Guinea grass at Kilpady and Kinnigoli villages. Also, conducting demonstration on multi cut sorghum COFS-31 under action plan 2022-23. | - |
| | | Organize awareness and training programmes for rural youths on the value addition of fruits and vegetables for | Organised capacity building programmes and demonstration on 29.07.2021, 11.10.2021 and 15.10.2021 to 105 rural youths on | - |

| | | | | |
|--|--|---|--|---|
| | | enhancing the income | mushroom cultivation. Organised capacity building programmes and demonstration on 16.10.2021 and 18.10.2021 to 74 SHGs woman on Banana noodles making. | |
| | | Requested Deputy Director, Horticulture to provide subsidy for the production and marketing of Cashew juice. | Deputy Director, Horticulture informed that subsidy can be extended to value addition to cashew. | - |
| | | Action taken in collaboration with Development Departments | | |
| | | Provide technical assistance for effective management of African Giant Snails and Yellow Leaf Disease | Organised capacity development programme cum method demonstrations and Field day on integrated management of African snail at Tekkaru village By ICAR- KVK (D.K) in association with Department of Horticulture Belthangady and Primary agricultural co-operative society Tekkaru on 10.08.2021 and 02.12.2021. Organised capacity development programme and method demonstration on Integrated management of African snail at Kalleri and Urvalu villages by ICAR- KVK (D.K) in association with Department of Horticulture Belthangady and Navachethan Horticultural Farmers Producing Organisation Kalleri on 11.08.2021. Organised capacity development programme and method demonstration on Integrated management of African snail at Narimogaru village by ICAR- KVK (D.K) in association with Department of Horticulture Puttur on 31.08.2021. | - |
| | | Encourage the farmers for cultivation of medicinal plants through providing technical information | Online training programme on medicinal plants was jointly conducted by ICAR-KVK and Horticulture department on 11.06.2021. There were 78 farmers and farm woman participated. | - |
| | | More number of training programmes on Beekeeping and Mushroom cultivations need to be organised for doubling the farmers income | Organised a capacity building programme on 25.05.2021 on the occasion of World Bee Day and provided information on Bee keeping for farmers welfare. Organised capacity development training programme on bee keeping at Shishila village of Belthangady taluk. Organised a capacity building programme on bee keeping and | - |

| | | | | |
|--|--|---|---|----|
| | | | mushroom cultivation on 08.06.2021 to 117 farmers. | |
| | | Lack of awareness among farmers on advances in agriculture. Hence, conduct training programmes at Gram Panchayath level to provide agricultural information to farmers. | Organised about 88 training programmes to 2642 farmers/farm woman on improved agricultural practices at gram panchayath level to provide technical information on agriculture and allied agriculture. | -- |
| | | Paddy cultivation is meagre in the district. KVK should provide advance technologies for paddy cultivation to increase the area under paddy cultivation. Share the results of demonstrations conducted by KVK for extension functionaries of the department of agriculture. | 8 % of the area has increased due to adoption of improved practices like flood resistant red rice variety Sahyadri Panchamukhi, short duration red rice variety Pratheeksha, potassium management in paddy and nutrient, insect pest and disease management practices through FLD. | - |
| | | Fund is available under ATMA for joint implementation of the schemes and programmes | 14 training programmes, 26 field visits, 18 resources persons and 37 field survey were taken under ATMA. | - |
| | | He suggested to provide technical support for organizing capacity development programmes for farmers | Fish value added products preparation training was organised in village level for SHGs at Nidpalli and Bettampadi villages on 26.08.21 and 28.09.21 respectively. Tribal women have initiated the production and marketing of fish value added products like fish and shrimp chutney powder, fish and shrimp pickles, fish noodles, chakkuli etc. | - |
| | | Trials to be taken up on plant protection aspects of cashew crop as it is one of the commercial crops in the district | Capacity development programme and front line Demonstration on Integrated management of stem and root borer in cashew implemented at Puttige, Kellaputtige and Daregudde Villages of Moodbidre taluk. | - |

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 | Cereals | Paddy |
| 2 | Pulses | Black gram, Green gram, Cowpea and Horse gram |
| 3 | Oil Seeds | Sesamum |
| 4 | Vegetables | Brinjal, Bhendi, cowpea, Ash gourd, Amaranths, littlegourd, ridge gourd , Pumpkin, Cucumber, tapioca , Basella, Amorphophallus, Sweet potato and Other vegetable |
| 5 | Fruits | Banana, Pineapple, Sapota, Jackfruit and Mango |
| 6 | Plantation Crops | Arecanut, Coconut, Cashew, Pepper, Rubber, Vanilla and Cocoa |
| 7 | Flower Crops | Jasmine and Crossandra |
| 8 | Animal Husbandry | Dairy, Piggery, Poultry and Fisheries |

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, Zone 10 | ICAR- Krishi Vigyan Kendra, Dakshina Kannada, Kankanady, Mangaluru is situated in the Coastal Zone No-10 with an operational area of five Taluks viz., Mangaluru, Bantwal, Belthangady, Puttur and Sullia. The total Geographical area of the district is 4770 sq. km. The district has 130833 ha of net cultivable area mainly dependent on rainfall. The Normal rainfall is 4040 mm. The annual average rainfall received during the period January-2021 to December 2021 is 3963 mm. This district receives heavy rainfall during the months of June to September. Maximum temperature of 35.8°C was recorded in the month of March-2021 and minimum temperature of 21.9°C was recorded during the month of July-2021. The Average relative humidity was recorded 81.55 during the reporting year. The soil in the major portions of the district consists of three types, viz. coastal sandy, alluvial, laterite and red loamy soil. Apart from this, coastal saline soil is also noticed in some parts of the district owing to the proximity to sea or backwater. Soils are low in CEC and acidic in condition. The pH of the soil ranges from 5.3 to 5.8 with low soluble salt content. The major nutrient status of the soil is varying from medium to low. The major food crop grown in the district is Paddy. The Plantation crops are Arecanut, Coconut, Cashew, Rubber, Pepper, Cocoa and Banana. In some parts of the district, pulses like Black gram, Green gram, Horse gram and cowpea are grown in rabi and summer in paddy fallows. Sesamum is the oil seed crop and vegetables like cucumber, Bhendi, Chilli, Brinjal Bitter gourd, Ash gourd and Little gourd are grown during Rabi/ Summer season. |

| S. No | Agro ecological situation | Characteristics |
|-------|---------------------------|---|
| 1 | AES1-Coastal belt | This covers the taluks of Bantwal and Mangalore. The soils of this AES are red lateritic mixed with alluvial soil. Bore well tube wells and tanks are the major source of irrigation. Major crops include paddy, arecanut, coconut, cashew pulse crops and other vegetable crops. |

| | | |
|---|------------------------|---|
| 2 | AES-2 Malnad region | This covers the taluks of Belthangady Puttur and Sullia. Predominant by western ghat sections. The soils are red sandy loamy and poor in soil fertility, Tanks are major irrigation source. Less emphasis on sericulture. Major crops are plantation crops and Rubber |
|---|------------------------|---|

2.3 Soil type/s

| S. No | Soil type | Characteristics | Area in ha |
|-------|--|--|------------|
| 1. | Coastal sands, Alluvial, Laterite and Red loamy soil | The soils are mainly red lateritic soil and acidic in nature. Around 95% of soils are red and only 5% are black alluvium. Nearly 60% of the soils are red lateritic in nature. The soil depth is moderately deep (25 cm) to deep (100 cm) in nature. Soils are low in CEC. The pH of the soil ranges from 4.6 to 5.8 with low soluble salt content. The major nutrient status of the soils is varying from low to medium. | 129371 |
| | | | |

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 | 48689.00 | 140827.00 | 2735.00 |
| 2 | Arecanut | 35409.00 | 53076.60 | 1500.00 |
| 3 | Coconut | 18467 | 1975.83 (Lakh nuts) | 0.11 (Lakh nuts) |
| 4 | Sesamum | 483.00 | 164.00 | 339.00 |
| 5 | Leafy Vegetables | 594.00 | 10020.00 | 16870.00 |
| 6 | Brinjal | 55.00 | 1318.50 | 23970.00 |
| 7 | Bhendi | 176.00 | 1352.60 | 7690.00 |
| 8 | Green chilli | 137.00 | 849.80 | 6200.00 |
| 9 | Watermelon | 214.00 | 7473.70 | 34920.00 |
| 10 | Horsegram | 190.00 | 49.00 | 372.00 |
| 11 | Cowpea | 543.00 | 182.00 | 325.00 |
| 12 | Pepper | 2736.00 | 596.75 | 220.00 |
| 13 | Cashew | 33111.00 | 47816.45 | 1440.00 |
| 14 | Jasmine | 101.00 | 587.52 | 5820.00 |
| 15 | Other vegetable | 40.00 | 561.90 | 14050.00 |
| | | | | |

* Source: Statistical Department, Dakshina Kannada(Year: 2019-20)

2.5. Weather data

| Month | Rainfall (mm) | Temperature °C | | Relative Humidity (%) |
|--------------|---------------|----------------|--------------|-----------------------|
| | | Maximum | Minimum | |
| January-21 | 117.7 | 34.3 | 22.1 | 77.65 |
| February-21 | 12.5 | 35.1 | 22.0 | 73.9 |
| March-21 | 15.7 | 35.8 | 24.5 | 76.5 |
| April-21 | 125.9 | 34.9 | 25.2 | 76.15 |
| May-21 | 394.5 | 32.8 | 23.9 | 83.25 |
| June-21 | 636.6 | 30.0 | 22.5 | 89.15 |
| July-21 | 880.5 | 28.6 | 21.9 | 90.50 |
| August-21 | 557.6 | 29.4 | 23.4 | 87.40 |
| September-21 | 404.0 | 30.1 | 23.7 | 86.30 |
| October-21 | 459.0 | 31.0 | 24.1 | 84.20 |
| November-21 | 348.0 | 31.8 | 23.5 | 81.95 |
| December-21 | 11.0 | 33.5 | 22.5 | 71.7 |
| Total | 3963.0 | 387.3 | 279.3 | 978.65 |

* Sources: Rainfall : Karnataka State Natural Disaster Monitoring Centre(KSNDMC),

Temperature: Nodal Officer, Gramin Krishi Mausam Sewa, ZAHRS, Brahmavar-576213,Udupi District, Karnataka

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

| Category | Population | Production | Productivity |
|-------------------|------------|------------|--------------|
| Cattle | | | |
| <i>Crossbred</i> | 139968 | - | - |
| <i>Indigenous</i> | 113747 | - | - |
| Buffalo | 3700 | - | - |
| Sheep | | | |
| <i>Crossbred</i> | 23 | - | - |
| <i>Indigenous</i> | 242 | - | - |
| Goats | 24628 | - | - |
| Pigs | | | |
| <i>Crossbred</i> | 4793 | - | - |
| <i>Indigenous</i> | 1493 | - | - |
| Rabbits | 1166 | - | - |
| Poultry | | | |
| Hens | 1721908 | - | - |

| | | | |
|-------------------|-------------|-------------------|---------------------|
| <i>Desi</i> | | | |
| <i>Improved</i> | | | |
| Ducks | - | - | - |
| Turkey and others | - | - | - |
| Category | Area | Production | Productivity |
| Fish | - | - | - |
| <i>Marine</i> | - | - | - |
| <i>Inland</i> | - | - | - |
| Prawn | - | - | - |
| Scampi | - | - | - |
| Shrimp | - | - | - |

* sources. Statistical Department, Dakshina Kannada (Year: 2019-20)

2.7 District profile maintained in the KVK has been **Updated** for 2021: 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 | Mangaluru | Mangaluru | Keyoor, Ambla Mogaru | 1 Year | Paddy, Coconut, Arecanut | High production cost, imbalanced fertilizer application, less fertilizer use efficiency, lack of knowledge on Nano Fertilizers | Influence of Nano - Fertilizer (N and Zn) on productivity of Paddy |
| | Mangaluru | Konaje | Konaje | 1 Year | Paddy, Coconut, Arecanut | Low Yield due to severe infestation of Leaf Folder during 30 and 60 DAT | Assessment of Leaf Folder Management in Paddy |
| | Mangaluru | Harekala, | Harekala, | 1 Year | Paddy, Coconut, Arecanut | Flood prone area for paddy cultivation Non availability of suitable red rice variety for flood in lowlands, low yield due to excess rains during August and September leads to flooding and lodging of paddy. | Crop Production Demonstration of Sahyadri Panchamukhi red rice variety for lowlands in Dakshina Kannada |
| | Mangaluru | Mudushedde | Mudushedde | 1 Year | Paddy, Coconut, Arecanut | Flood prone area for paddy cultivation | Crop Production |
| | Mangaluru | Kayyuru | Kayyuru | 1 year | Paddy, coconut, arecanut | Non availability of short duration red rice variety | Crop production |

| | | | | | | | |
|---|-----------|-------------------------|-------------------------------------|--------|--|---|--|
| | Mangaluru | Mudabidre | Kadandale | 1 Year | Paddy, coconut, arecanut | Non availability of short duration red rice variety Non availability of suitable red rice variety for midlands (Majalu), low yield due to local and LYV (Kajejaya) | Crop production Demonstration of Prathiksha rice variety for midlands in Dakshina Kannada |
| | Mangaluru | Mangaluru | Delanthabettu | 1 Year | Paddy, Coconut, Arecanut Fodder | Shortage of green fodder during summer season , high cost of concentrates, under utilization of space in coconut plantation | Demonstration of Shade Tolerant Guinea grass in Coconut plantation |
| | Mangaluru | Mangaluru | Ambalmogaru | 1 Year | Paddy, Coconut, Arecanut | Losses of Nutrients due to excess rainfall, nutrients deficiency due to acidic soil pH | Potassium Management in Costal Paddy |
| | Mangaluru | Mangaluru | Konaje | 1 Year | Paddy, Coconut, Arecanut | Poor Yield due to high incidence of Stem Borer, case worm, leaf folder, Gundy Bug and blast (Average of 37% of yield loss in paddy due to pests and diseases incidence every year) | Eco-friendly Pest management in Paddy |
| | Mangaluru | Mangaluru | Harekala | 1 Year | Paddy, Coconut, Arecanut Pepper | High Incidence of wilt diseases, Spike Shedding and Improper Nutrient Management | Integrated crop management in pepper |
| | Mangaluru | Modabidre | Kellaputtege, Dharegudde | 1 Year | Paddy, Coconut, Arecanut Cashew | High Incidence of stem and root borer | Integrated management of stem and root borer in cashew nut |
| | Mangaluru | Mnaglauru | Beluvai, | 2 Year | Paddy, Coconut, Arecanut Fish Culture | Low yield due to stocking of poor quality fish seeds, improper stocking density and feeding management. Small ponds. | Amur Common Carp as diversified species for increasing fish production |
| | Mangaluru | Delanthabettu Mangaluru | Yakkaru, Cheluru, Mdepu, Yadapadavu | 2 Year | Paddy, Coconut, Arecanut Fish culture | Low yield due to stocking of poor quality fish seeds, improper stocking density, fertilization and feeding management | Composite Fish Culture of Carps with <i>Pangassius sctchi</i> to enhance fish production |
| 2 | Kadaba | Kadaba | Budaluru, | 1 Year | Paddy, Coconut, Arecanut Compost culture | Non availability of suitable aerobic compost culture for decomposing the farm wastes and bulky organic wastes. | Assessment of Decomposing cultures for compost preparation |

| | | | | | | | |
|---|-------------|----------------|-------------------------------------|--------|------------------------------------|---|---|
| 3 | Puttur | Puttur | Bettampady | 1 Year | Paddy, Coconut, Arecanut | Deficiency of magnesium and sulfur in the soil causes reduction in photosynthetic activity leading to the low yield | Effect of Magnesium sulfate on growth and yield of Coastal Paddy |
| | Puttur | Puttur | Aryapu, | 1 Year | Paddy, Coconut, Arecanut | Non availability of suitable red rice variety for midlands (Majalu), low yield due to local and LYV (Kajejaya) | Demonstration of Prathiksha rice variety for midlands in Dakshina Kannada |
| | Puttur | Puttur | Alatti | 2 Year | Paddy, Coconut, Fish culture | Low yield due to stocking of poor quality fish seeds, improper stocking density, fertilization and feeding management | Composite Fish Culture of Carps with <i>Pangassius sctchi</i> to enhance fish production |
| 4 | Bantwal | Bantwal | Kadabetu, | 1 Year | Paddy, Coconut, Arecanut | High soil acidity and organisms in the soil, unavailability of applied nutrients, phosphate fixation in soils | Effect of Mangala setright soil conditioner on Arecanut yield and Soil acidity in coastal soils of Dakshina Kannada |
| | Bantwal | Bantwal | Kadabettu | 1 Year | Paddy, Coconut, Areca nut | Premature nut fall, nut cracking due to Potassium and Boron deficiency in the soils | Management of nut cracking and premature nut fall in Areca nut |
| 5 | Belthangady | Belthangady | Guruvayanakere | 1 Year | Paddy, Coconut, Arecanut | Spindle Bug affecting young Arecanut palms (3 year old) affecting the growth and yield | Assessment of Spindle Bug Management in Arecanut |
| | Belthangady | Guruvayanakere | Thekamejaru, | 1 Year | Paddy, Coconut, Arecanut | Yield Loss due to High Incidence of Red Palm Weevil, Improper Field Sanitation and Lack of Knowledge on Early Detection of Pest Incidence | Management of red palm weevil in arecanut |
| | Belthangady | Belthangady | Thekkaru | 1 Year | Paddy, Coconut, Horticultural crop | High Incidence of African giant snails during monsoon period (200 acre of horticultural crop) Lack of Knowledge on management | Integrated management of African snails |
| | Belthangady | Belthangady | Mudoor, Madathyur, Madala, Pinapila | 2 Year | Paddy, Coconut, Fish Culture | Low yield due to stocking of poor quality fish seeds, improper stocking density and feeding management. Small ponds. | Amur Common Carp as diversified species for increasing fish production |

2.9 Priority thrust areas

| S. No | Thrust area |
|-------|--|
| 1 | Integrated crop management |
| 2 | Introduction of HYV |
| 3 | Mechanization in paddy |
| 4 | Integrated pest and disease management |
| 5 | Integrated farming systems |
| 6 | Acid Soil Management |
| 7 | Scientific Animal Husbandry practices |
| 8 | Inland Fish culture |
| 9 | Income generation activities like backyard poultry rearing, vermicomposting, apiary, piggery |

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 |
| 6 | 6 | 40 | 40 | 12 | 12 | 121 | 121 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| 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 |
| 100 | 93 | 7000 | 6359 | 2 | 2 | 40 | 40 |
| | | | | | | | |
| | | | | | | | |

| Training (Extension personnel) | | | | Training (sponsored) | | | |
|--------------------------------|-------------|--------------------|-------------|----------------------|-------------|--------------------|-------------|
| 5 | | | | 6 | | | |
| Courses (No.) | | Participants (No.) | | Programmes (No.) | | Participants (No.) | |
| Target | Achievement | Target | Achievement | Target | Achievement | Target | Achievement |

| | | | | | | | |
|-----------|-----------|------------|------------|----|---|-----|-----|
| 11 | 10 | 200 | 189 | 10 | 9 | 200 | 230 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Training (Vocational) | | | | Extension Programmes | | | |
|-----------------------|-------------|--------------------|-------------|----------------------|-------------|--------------------|-------------|
| 7 | | | | 8 | | | |
| Courses (No.) | | Participants (No.) | | Programmes (No.) | | Participants (No.) | |
| Target | Achievement | Target | Achievement | Target | Achievement | Target | Achievement |
| - | - | - | - | 400 | 393 | 20000 | 17309 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Seed Production (Q) | | Planting material (Nos.) | |
|---------------------|-------------|--------------------------|-------------|
| 9 | | 10 | |
| Target | Achievement | Target | Achievement |
| Paddy-20.0 | 16.80 | Fodder cutings-3000 | 706 |
| Pulses-2.0 | - | Jasmine Seedlings: 1000 | - |
| Bhendi Seeds: 0.05 | - | Drumsticks: 1000 | - |
| | | Papaya: 1000 | - |
| | | Coconut: 500 | - |
| | | Jackfruit: 100 | - |

| Livestock, poultry strains and fingerlings (No.) | | | | Bio-products (Kg) | | | |
|---|-------------|---------------|-------------|---|-------------|---------------|-------------|
| 11 | | | | 12 | | | |
| Target | | Achievement | | Target | | Achievement | |
| Swarnadhar Poultry: 5000 | | 1047 | | Mass Production of Trichoderma sp.: 200 | | - | |
| Piggery: 40 | | - | | Earth worms: 50 Kg. | | 17.2 | |
| Piglets: 40 | | - | | Vermi Compost | | 110 | |
| Fish seeds: 200000 | | 24430 | | Compost Culture | | 9 | |
| Ornamental fish: 5000 | | - | | | | | |
| 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 |
| Soil-500 | 209 | 500 | 209 | 200 | 165 | 20000 | 20003 |
| Water-250 | 115 | 250 | 115 | | | | |
| | | | | | | | |
| | | | | | | | |

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 | Crop Production | Paddy | High production cost, imbalanced fertilizer application, less fertilizer use efficiency, lack of knowledge on Nano Fertilizers | Influence of Nano - Fertilizer (N and Zn) on productivity of Paddy | - | 1 | 0 | 0 | Field Visit:3 Training:1 | - | - | - | | 10 | 12 |
| 2 | Farm waste management | Farm waste management | Non availability of suitable aerobic compost culture for decomposing the farm wastes and bulky organic wastes. | Assessment of Decomposing cultures for compost preparation | - | 1 | 0 | 0 | Field Visit:3 Training:1 | - | - | - | | 10 | 30 |
| 3 | ICM | Paddy | Deficiency of magnesium and sulfur in the soil causes reduction in photosynthetic activity leading to the low yield | Effect of Magnesium sulfate on growth and yield of Coastal Paddy | - | 2 | - | - | Field Visit: 6 Training: 2 | - | - | - | | - | - |
| 4 | ICM | Arecanut | High soil acidity and organisms in the soil, unavailability of applied nutrients, phosphate fixation in soils | Effect of Mangala setright soil conditioner on arec nut yield and Soil acidity in coastal soils of Dakshina Kannada | - | 1 | - | - | Field Visit: 2 Training:1 | - | - | - | | - | - |

| | | | | | | | | | | | | | | |
|----|-----------------|----------|--|--|---|----|---|---|-----------------------------|------|---------|---|---|---------------------------|
| 5 | Crop Production | Paddy | Low Yield due to severe infestation of Leaf Folder during 30 and 60 DAT | Assessment of Leaf Folder Management in Paddy | - | 1 | | | Field Visit:4 Training:1 | | | | 125000 tricho cards | - |
| 6 | IPM | Arecanut | Spindle Bug affecting young Arecanut palms (3 year old) affecting the growth and yield | Assessment of Spindle Bug Management in Arecanut | - | 2 | | | Field Visit:4 Training:2 | | | | Fish oil resin soap (5 numbers) Neem oil | 5 litre 2.5 litres |
| 7 | Crop Production | Paddy | Non availability of suitable red rice variety for flood in lowlands, low yield due to excess rains during August and September leads to flooding and lodging of paddy. | - | Demonstration of Sahyadri Panchamukhi red rice variety for lowlands in Dakshina Kannada | 2 | 0 | 0 | Field Visit:4 Training:2 | 2.50 | - | - | - | - |
| 8 | Crop Production | Paddy | Non availability of suitable red rice variety for midlands (Majalu), low yield due to local and LYV (Kajejaya) | - | Demonstration of short duration red rice variety Pratheeksha for rabi/summer | | | | Field Visit:3 Training:1 | 1.25 | - | - | - | - |
| 9 | Livestock | Fodder | Shortage of green fodder during summer season , high cost of concentrates, under utilization of space in coconut plantation | - | Demonstration of Shade Tolerant Guinea grass in Coconut plantation | | | | Field Visit:1 Training:1 | - | 1000 No | | - | -s |
| 10 | ICM | Arecanut | Premature nut fall, nut cracking due to Potassium and Boron deficiency in the soils | - | Management of nut cracking and premature nut fall in Areca nut | 01 | - | - | Field Visit:2 Training:1 | - | - | - | AMC Trichoderma | 20 Kg 20 kg |

| | | | | | | | | | | | | | | |
|----|-----|----------|--|---|--|----|---|---|---|---|---|---|-------------------------|--------------|
| 11 | ICM | Paddy | Losses of Nutrients due to excess rainfall, nutrients deficiency due to acidic soil pH | - | Potassium Management in Coastal Paddy | 02 | - | - | Field Visit: 6 Training: 2 | - | - | - | Azotobacter Neem Oil | 10 L 10 L |
| 12 | IPM | Paddy | Poor Yield due to high incidence of Stem Borer, case worm, leaf folder, Gundy Bug and blast (Average of 37% of yield loss in paddy due to pests and diseases incidence every year) | - | Eco-friendly Pest management in Paddy | 1 | - | - | Field Visit:5 Training:1 Field day: 1 | - | - | - | - | - |
| 13 | ICM | Pepper | High Incidence of wilt diseases, Spike Shedding and Improper Nutrient Management | - | Integrated crop management in pepper | 1 | - | - | Field Visit:5 Training: 1 Field day: 1 | - | - | - | - | - |
| 14 | IPM | Arecanut | Yield Loss due to High Incidence of Red Palm Weevil, Improper Field Sanitation and Lack of Knowledge on Early Detection of Pest Incidence | - | Management of red palm weevil in arecanut | 2 | - | - | Field Visit:5 Training:2 Field day: 1 | - | - | - | - | - |
| 15 | | | High Incidence of African giant snails during monsoon period (200 acre of horticultural crop) Lack of Knowledge on management | - | Integrated management of African snails | 3 | - | - | Field Visit:6 Training:3 Field day: 1 | - | - | - | - | - |
| 16 | IPM | Cashew | High Incidence of stem and root borer | - | Integrated management of stem and root borer in cashew nut | 1 | - | - | Field Visit:5 Training:1 Field day: 1 | - | - | - | - | - |

| | | | | | | | | | | | | | | |
|----|-----------|-----------|---|---|--|---|---|---|-----------------------------|---|---|---|---|---|
| 17 | Fisheries | Fisheries | Low yield due to stocking of poor quality fish seeds, improper stocking density, fertilization and feeding management | - | Composite Fish Culture of Carps with <i>Pangassius sutchi</i> to enhance fish production | 1 | - | - | Field Visit:4 Training:1 | - | - | - | - | - |
| 18 | Fisheries | Fisheries | Low yield due to stocking of poor quality fish seeds, improper stocking density and feeding management. Small ponds. | - | Amur Common Carp as diversified species for increasing fish production | 1 | - | - | Field Visit:4 Training:1 | - | - | - | - | - |

3.B2. Details of technology used during reporting period

| S.No | Title of Technology | Source of technology | Crop/enterprise | No.of programmes conducted | | | |
|------|--|---|-----------------|----------------------------|-----|----------|--|
| | | | | OFT | FLD | Training | Others (Specify) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | Influence of Nano -Fertilizer (N and Zn) on productivity of Paddy | UAHS, Shivamogga, IFFCO –NBRC, Gujarath | Paddy | 1 | - | 1 | Method Demonstration:1 Field Visit:2 |
| 2 | Assessment of Decomposing cultures for compost preparation | NCOF, Ghaziabad,UAS, Dharwad, UAHS, Shivamogga | - | 1 | - | 1 | Method Demonstration:1 Field Visit:3 |
| 3 | Effect of Magnesium sulfate on growth and yield of Coastal Paddy | UAHS, Shivamogga,UAHS, Shivamogga | Paddy | 1 | - | 1 | Method Demonstration: 10 Field Visit: 2 |
| 4 | Effect of Mangala setright soil conditioner on arecnut yield and Soil acidity in coastal soils of Dakshina Kannada | CPCRI,MCF Ltd. Mangaluru | Arecanut | 1 | - | 2 | Method Demonstration: 05 Field Visit: 6 |
| 5 | Assessment of Leaf Folder Management in Paddy | UAS Dharwad,UAHS, Shivamogga,TNAU Coimbatore | Paddy | 1 | - | 1 | Method Demonstration:3 Field Visit:4 |
| 6 | Assessment of Spindle Bug Management in Arecanut | CPCRI Kasargod UAHS, Shivamogga TNAU Coimbatore | Arecanut | 1 | - | 2 | Method Demonstration:2 Field Visit:4 |
| 7 | Demonstration of Sahyadri Panchamukhi red rice variety for lowlands in Dakshina Kannada | UAHS Shivamogga | Paddy | - | 1 | 2 | Method Demonstration: 1 Field Visit: 3 |
| 8 | Demonstration of short duration red rice variety Pratheeksha for rabi/summer | UAHS Shivamogga | Paddy | - | 1 | 1 | Method Demonstration: 1 Field Visit: 2 |

| | | | | | | | |
|----|--|------------------|--------------------|---|---|----|---|
| 9 | Demonstration of Shade Tolerant Guinea grass in Coconut plantation | IGFRI, Dharwad | Fodder | - | 1 | 1 | Method Demonstration: 1 Field Visit: 1 |
| 10 | Management of nut cracking and premature nut fall in Areca nut | CPCRI, Kasargod | Arecanut | - | 1 | 01 | Method Demonstration: 10 Field Visit: 2 |
| 11 | Potassium Management in Coastal Paddy | UAHS Shivamogga | Paddy | - | 1 | 02 | Method Demonstration: 10 Field Visit: 06 |
| 12 | Eco-friendly Pest management in Paddy | UAS Bengaluru | Paddy | - | 1 | 1 | Method Demonstration:4 Field Visit:5 |
| 13 | Integrated crop management in pepper | IIHR, Bengaluru | Pepper | - | 1 | 1 | Method Demonstration:3 Field Visit:5 |
| 14 | Management of red palm weevil in arecanut | CPCRI Kasargod | Arecanut | - | 1 | 1 | Method Demonstration:2 Field Visit:5 |
| 15 | Integrated management of African snails | CCRI, Balehonnur | Horticulture crops | - | 1 | 3 | Method Demonstration:4 Field Visit:6 |
| 16 | Integrated management of stem and root borer in cashew nut | DCR Puttur | Cashew | - | 1 | 1 | Method Demonstration:2 Field Visit:4 |
| 17 | Composite Fish Culture of Carps with <i>Pangassius sctchi</i> to enhance fish production | KVAFSU, Bidar | Fish culture | - | 1 | 1 | Field Visit:3 |
| 18 | Amur Common Carp as diversified species for increasing fish production | KVAFSU, Bidar | Fish culture | - | 1 | 1 | Field Visit:3 |

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 |
| 10 | - | - | - | 9 | 1 | - | - | 50 | 7 | 2 | - | - | - | - | - |
| 10 | - | - | - | 5 | - | - | - | 23 | 9 | - | - | - | - | - | - |
| | 10 | 0 | 0 | 0 | - | - | - | 24 | 0 | 03 | 0 | - | - | - | - |
| | 05 | 0 | 0 | 0 | - | - | - | 12 | 03 | 03 | 04 | - | - | - | - |
| 5 | 0 | 0 | 0 | 0 | - | - | - | 10 | 2 | 0 | 0 | - | - | - | - |
| 4 | 1 | 0 | 0 | 0 | - | - | - | 12 | 2 | 4 | 0 | - | - | - | - |
| - | - | - | - | 10 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | - | - | - | - |
| - | - | - | - | 5 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | - | - | - | - |
| - | - | - | - | 10 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | - | - | - | - |
| - | - | - | - | 10 | 0 | 0 | 0 | 24 | 0 | 04 | 0 | - | - | - | - |
| - | - | - | - | 09 | 01 | 0 | 0 | 45 | 017 | 0 | 0 | - | - | - | - |
| - | - | - | - | 10 | 0 | 0 | 0 | 14 | 1 | 0 | 0 | - | - | - | - |
| - | - | - | - | 9 | 1 | 0 | 0 | 12 | 2 | 0 | 0 | - | - | - | - |
| - | - | - | - | 13 | 3 | 0 | 0 | 12 | 4 | 0 | 0 | - | - | - | - |
| - | - | - | - | 16 | 1 | 3 | 0 | 59 | 6 | 4 | 0 | - | - | - | - |

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 |
| Varietal Evaluation | - | - | - | - | - | - | - | - | - | - |
| Integrated Pest Management | 1 | - | - | - | - | - | 1 | 1 | - | 3 |
| 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 | 1 | - | - | - | - | - | - | 1 | - | 2 |
| Total | 3 | - | - | - | - | - | 1 | 2 | - | 6 |

[illegible]

| | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|
| 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 | - | - | - | - | 2 | 2 |
| Nutrition Management | - | - | - | - | - | - |
| Disease of Management | - | - | - | - | - | - |
| Value Addition | - | - | - | - | - | - |
| Production and Management | - | - | - | - | - | - |
| Feed and Fodder | - | - | - | - | - | - |
| Small Scale income generating enterprises | - | - | - | - | - | - |
| Dairy | - | - | - | - | - | - |
| Others (Pl. specify) | - | - | - | - | - | - |
| TOTAL | | | | | 2 | 2 |

4.A4. Abstract on the number of technologies refined in respect of livestock : -Nil-

| 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: NIL

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 | - | - | - | - | - |
| | - | - | - | - | - |
| 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 | - | - | - | - | - |
| | - | - | - | - | - |
| Mushroom cultivation | - | - | - | - | - |
| | - | - | - | - | - |
| Total | - | - | - | - | - |

4.B.2. Technologies Refined under various Crops : -Nil-

| 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 | - | - | - | - | - |
| | - | - | - | - | - |
| Drudgery Reduction | - | - | - | - | - |
| | - | - | - | - | - |
| Storage Technique | - | - | - | - | - |
| | - | - | - | - | - |
| Mushroom cultivation | - | - | - | - | - |
| | - | - | - | - | - |

| | | | | | |
|--------------------|---|---|---|---|---|
| Cropping Systems | - | - | - | - | - |
| Farm Mechanization | - | - | - | - | - |
| Others, Pl specify | - | - | - | - | - |
| Total | - | - | - | - | - |

4.B.3. Technologies assessed under Livestock : -NIL-

| 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.4. Technologies Refined under Livestock and other enterprises : -NIL-

| 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 | Fodder | Demonstration of Shade Tolerant Guinea grass in Coconut plantation | 1 | 10 |
| Small scale income generating enterprises | - | - | - | - |
| Others, pl. specify | - | - | - | - |
| Total | | | | |

4.B.5. Technologies 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 | - | - | - | - |
| 5 | Energy conservation | - | - | - | - |
| 6 | Small-scale income generation | - | - | - | - |
| 7 | Storage techniques | - | - | - | - |
| 8 | Household food security | - | - | - | - |
| 9 | Organic farming | Compost preparation | Assessment of Decomposing cultures for compost preparation | 10 | 1 |
| 10 | Agroforestry management | - | - | - | - |
| 11 | Mechanization | - | - | - | - |
| 12 | Resource conservation technology | - | - | - | - |
| 13 | Value Addition | - | - | - | - |
| 14 | Others, pl. specify | - | - | - | - |

4.B.6. Technologies assessed under various enterprises for women empowerment :-NIL-

| | 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 |
| Paddy | Rabi 2021- 22 | High Production Cost, Imbalanced Fertilizer Application, Less Fertilizer use Efficiency, Lack of Knowledge on Nano Fertilizers | Influence of Nano - Fertilizer (N and Zn) on productivity of Paddy | 10 | T.O.1 Application of NP fertilizers as basal and top dressing of N fertilizers, less application of K fertilizer | Farmers practice | Under Progress | | | | | |
| | | | | | T.O.2 RDF: 60:30:60 NPK kg/ha - Basal dose of 50 % N and K, full dose of P as Basal, 25 % N and 25 % K at Maximum tillering stage (30 DAT) and 25 % N and 25% K between panicle initiation and boot leaf stage (55-60 DAT) | UAHS, Shivamogga | - | - | - | - | - | - |
| | | | | | T.O.3 Application of 25% N as basal dose (25 kg N/ha), 50% K and full dose of P as basal, 25% N and 50% K at 25-30 DAT, N and Zn nano fertilizer spray at 30 DAT (4 ml/l) and 20 days after first spray | IFFCO – NBRC, Gujarath | - | - | - | - | - | - |
| 2 | Rabi 2021- 22 | Non availability of suitable aerobic compost culture for decomposing the farm wastes and bulky organic wastes. Higher | Assessment of Decomposing cultures for compost preparation | 05 | T.O.1 Cow dung + farm waste | Farmers practice | Under Progress | | | | | |
| | | | | | T.O.2 Cow dung + farm waste + waste decomposer culture @ 100 ml/t (aerobic composting microbial consortium culture) | NCOF, Ghaziabad | - | - | - | - | - | - |

| | | | | | | | | | | | | |
|---|----------------|---|---|----|--|------------------|----------------|--------|------------------------------|-------|-------|------|
| | | production cost and introduction of new invasive weeds due to exporting of sheep and poultry manure | | | T.O.3 Cow dung + farm waste + compost culture @ 2kg/tonne (aerobic composting microbial consortium culture) | UAS, Dharwad | - | - | - | - | - | - |
| | | | | | T.O.4 Cow dung + farm waste + UAHS compost culture @ 2kg/tonne (aerobic composting microbial consortium culture) | UAHS, Shivamogga | - | - | - | - | - | - |
| 3 | Kharif 2021-22 | Deficiency of magnesium and sulfur in the soil causes reduction in photosynthetic activity leading to the low yield | Effect of Magnesium sulfate on growth and yield of Coastal Paddy | 05 | T.O.1 Application of NP complex fertilizers, no application of $MgSO_4$ | Farmers practice | 34.2 | Qtl/ha | 376.2 Tillers/m ² | 63270 | 43850 | 2.26 |
| | | | | | T.O.2POP: 100% NPK (60:30:60 kg/ha) (K nutrition 2 equal split application. One at planting, Second at 55-60 DAT, + $ZnSO_4$ (20 kg/ha) + soil test based Lime application | UAHS, Shivamogga | 42.11 | Qtl/ha | 525.4 Tillers/m ² | 77904 | 55514 | 2.48 |
| | | | | | T.O.3 100% NPK (60:30:60 kg/ha) (K nutrition 3 equal split application. One at planting, Second at 25-30 DAT, Third at 55-60 DAT + $ZnSO_4$ (20 kg/ha) + soil test based Lime application + $MgSO_4$ (30 kg/ha) | UAHS, Shivamogga | 49.7 | Qtl/ha | 595.4 Tillers/m ² | 91945 | 66785 | 2.65 |
| 4 | Rabi 2021-22 | High soil acidity and organisms in the soil, unavailability of applied nutrients, phosphate fixation in soils | Effect of Mangala setright soil conditioner on arecanut yield and Soil acidity in coastal soils of Dakshina Kannada | 10 | T.O.1 Application of NP complex fertilizers, zero or less application of K fertilizer | Farmers practice | Under Progress | | | | | |
| | | | | | T.O.2RDF: 100:40:140 NPK g/palm, Borax @2g/l, FYM-12 kg/palm, soil test based lime | CPCRI | - | - | - | - | - | - |

| | | | | | | | | | | | | |
|---|-------------|--|--|----|--|-----------------------|----------------|---|---|---|---|---|
| | | | | | application | | | | | | | |
| | | | | | T.O.3RDF: 100:40:140 NPK g/palm, Borax @ 2g/l, FYM-12 kg/palm, soil test based Mangala setright application | MCF Ltd. Mangaluru | - | - | - | - | - | - |
| 5 | Rabi Season | Low Yield due to severe infestation of Leaf Folder during 30 and 60 DAT | Assessment of Leaf Folder Management in Paddy | 05 | Improper use of pesticides and nutrient management | Farmers practice | Under Progress | | | | | |
| | | | | | T.O.1 Foliar application of Profenophos 50 EC @ 2ml L ⁻¹ of water @ 25 DAT and 40 DAT | UAS Dharwad | - | - | - | - | - | - |
| | | | | | T.O.2 Recommended dose fertiliser application Foliar application of Indoxacarb 14.5 SC @ 0.3 ml L ⁻¹ of water @ 25 DAT and 40 DAT | UAHS, Bengaluru | - | - | - | - | - | - |
| | | | | | T.O.3 Use of rope to dislodge the leaf feeding larvae of leaf folders, Release of <i>Trichogramma</i> <i>chilonis</i> thrice on 37, 44 and 51 DAT @ 5 cc (1,25,000 egg parasitoids) /ha/release. Pheromone traps (@ 10 to 12/ha | TNAU Coimbatore | - | - | - | - | - | - |
| 6 | Arecanut | Poor Growth of arecanut plants (Severity more young plants) | Assessment of Spindle Bug Management in Arecanut | 05 | Improper application of insecticides | Farmers practice | Under Progress | | | | | |
| | | | | | T.O.1 Foliar application of Thiamethoxam 25 WG (0.25 g per litre water) in and around the spindle and inner | CPCRI Kasargod | | | | | | |

| | | | | | | | | | | | | |
|--|--|--|--|--|---|---------------------|--|--|--|--|--|--|
| | | | | | whorl of leaves | | | | | | | |
| | | | | | T.O.2 Spraying of Profenophos 50% EC @ 2 ml L ⁻¹ of water (to the spindle leaf and inner most leaf axils) | UAHS, Shivamogga | | | | | | |
| | | | | | T.O.3 Spraying Fish Oil Resin Soap at 1.0 kg in 80 litre of water on the crown with 3 percent Neem oil suspension | TNAU Coimbatore | | | | | | |

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 : -NIL-

| 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 : -NIL-

| 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. | Category | Farming | Season | Crop | Variety/ breed | Hybrid | Thematic area | Technology | Area (ha) | Farmers (No.) | Farmers (No.) |
|-----|----------|---------|--------|------|----------------|--------|---------------|------------|-----------|---------------|---------------|
|-----|----------|---------|--------|------|----------------|--------|---------------|------------|-----------|---------------|---------------|

| No. | | Situation | | | | | | Demonstrated | Proposed | Actual | SC/ST | Others | Small/ Marginal | Others |
|-----|--------------------------|-----------|-------------|--------------|-------------------------|---|--------------------|---|----------|--------|-------|--------|--------------------|--------|
| 1 | Oilseeds | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | Pulses | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 | Cereals | Rainfed | Kharif | Paddy | Sahyadri Panchamukhi | - | Crop production | Demonstration of Sahyadri Panchamukhi red rice variety for lowlands in Dakshina Kannada | 4 | 4 | 0 | 10 | 10 | 0 |
| | | Irrigated | Rabi/summer | Paddy | Pratheeksha | - | Crop production | Demonstration of short duration red rice variety Pratheeksha for rabi/summer | 2 | 2 | 0 | 5 | 5 | 0 |
| | | | | Paddy | MO-4 | - | INM | Potassium Management in Costal Paddy | 2 | 2 | 0 | 10 | 10 | - |
| | | | | Paddy | MO-4 | - | IPM | Eco-friendly Pest management in Paddy | 4 | 4 | 0 | 10 | 10 | - |
| 4 | Millets | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | Vegetables | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6 | Flowers | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 | Ornamental | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | Fruit | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9 | Spices and condiments | | | Pepper | Paniyur 1 | | ICM | Integrated crop management | 2 | 2 | 0 | 10 | 10 | - |

| | | | | | | | | | | | | | | |
|----|-------------------|---|---|------------------------|-------------------------------------|---|------------------------|--|--------------|-----|---|---|---|---|
| 19 | Sheep and goat | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | Duckery | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 21 | Common carps | - | - | Fish culture | Carps with <i>Pangassius sutchi</i> | | Composite Fish Culture | Composite Fish Culture of Carps with <i>Pangassius sutchi</i> to enhance fish production | 5000 sq.mtr. | 0.3 | - | 3 | - | - |
| | | - | - | Composite Fish Culture | Amur Common Carp | | Monoculture | Amur Common Carp as diversified species for increasing fish production | 2500 sq.mtr. | 0.3 | - | 3 | - | - |
| 22 | Mussels | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Ornamental fishes | | | | | | | | | | | | | |
| 23 | Oyster mushroom | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 24 | Button mushroom | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 25 | Vermicompost | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 26 | Sericulture | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 27 | Apiculture | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 28 | Implements | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 29 | | | | | | | | | | | | | | |
| 30 | 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 | |

| | | | | | | | | | | | | | |
|---|-----------------------|-------------------|---------------------|--------|----------------------|---|-----------------|---|---------------------|-----|--------|-----|------------------|
| | | | | | | | | | | | | | |
| 1 | Oilseeds | | | | | | | | | | | | |
| 3 | Pulses | | | | | | | | | | | | |
| 3 | Cereals | Rainfed | Kharif 2021 | Paddy | Sahyadri Panchamukhi | - | Crop production | Demonstration of Sahyadri Panchamukhi red rice variety for lowlands in Dakshina Kannada | Kharif 2021 | Low | Medium | Low | Fallow |
| | | Rainfed | Rabi/summer 2021-22 | Paddy | Pratheeksha | - | Crop production | Demonstration of short duration red rice variety Pratheeksha for rabi/summer | Rabi/summer 2021-22 | Low | Medium | Low | Paddy |
| | | Rainfed | Rabi/summer 2021-22 | Paddy | Pratheeksha | - | Crop production | Potassium Management in Coastal Paddy | Rabi/summer 2021-22 | Low | Medium | Low | Paddy |
| | | Rainfed | Kharif-2021-22 | Paddy | MO-4 | | IPM | Eco-friendly Pest management in Paddy | Kharif-2021-22 | Low | Medium | Low | Paddy |
| | | Rainfed | Kharif-2021-22 | Paddy | MO-4 | | INM | Potassium Management in Coastal Paddy | Kharif-2021-22 | Low | Medium | Low | Paddy |
| 4 | Millets | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | Vegetables | - | - | - | - | - | - | - | - | - | - | - | - |
| 6 | Flowers | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 | Ornamental | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | Fruit | - | - | - | - | - | - | - | - | - | - | - | - |
| | Spices and condiments | Rainfed/irrigated | Kharif- 2021-22 | Pepper | Paniyur I | | ICM | Integrated crop management in pepper | Kharif-2021-22 | Low | Medium | Low | Pepper/ Arecanut |

[illegible]

5.B. Results of FLDs

5.B.1. Crops

[illegible]

[illegible]

| | | | | | | | | | | | | | | | | | |
|---------------------|--|--------------------|---|-------------|----|-----|--|---|---|---|---|---|---|---|---|---|---|
| Fodder | Demonstration of Shade Tolerant Guinea grass in Coconut plantation | DGGI | - | Rabi/Summer | 10 | 0.4 | Under Progress | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Plantation | Management of nut cracking and premature nut fall in Areca nut | Mangala | - | Rabi | 10 | 2.0 | Under Progress | | | | | | | | | | |
| | Management of red palm weevil in arecanut | Mangala | - | Kharif | 15 | 4.0 | Under progress | | | | | | | | | | |
| | Integrated management of African snails | Horticulture crops | - | Kharif | 20 | 2.0 | 92.38 % of the African snails were dead after 12 hours of poison baiting | | | | | | | | | | |
| 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 |
| Incidence of African snail | 92.38 % of the African snails were dead after 12 hrs of baiting | No dead snail found |

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 |
|---|--|---|
| Demonstration of Sahyadri Panchamukhi red rice variety for lowlands in Dakshina Kannada | Very much needed variety by the farmers for flooded situation, rice is very much demanded due to its aroma and taste. | Need quality seeds to enhance the paddy area under flood situation. |
| Demonstration of short duration red rice variety Pratheeksha for rabi/summer | Very much needed variety by the farmers. Due to non-availability of short duration variety more than 80 % of the land kept fallow during rabi, by growing Pratheeksha farmers can take up two crops in a year. | Need quality seeds to enhance the paddy area during rabi. |
| African snail management | Reduced population of African snail in horticulture farms | Risk in keeping metaldehyde in field condition and require proper disposal of snails attracted by the poisoned food |

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 (m²) | 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 | | | | | | | | |
| | | | | | | H | L | A | | | | | | | | |
| Common carps | Composite Fish Culture of Carps with <i>Pangas Sutchi</i> to enhance fish production | Carps with <i>Pangas Sutchi</i> | 3 | 0.3 | Under Progress | | | | | | | | | | | |
| | Amur Common Carp as diversified species for increasing fish production | Amur Common Carp | 3 | 0.15 | Under Progress | | | | | | | | | | | |
| Mussels | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Ornamental fishes | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 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., 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 (pLspecify) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

* 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.) : NIL

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

5. B8. Feedback on enterprises demonstrated : NIL

| 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 : NIL

| 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 |
| | | | | | | | | | | | | | | | |

* 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.) : NIL

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

5. B10. Feedback on farm implements demonstrated: NIL

| 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 | 1 | 46 | Promotion of Green manure crops for soil health management |
| | | 1 | 18 | Farmers opinion about ICM in Arecanut shared |
| | | 1 | 19 | Farmers opinion about Yard long bean shared |
| | | 1 | 28 | Field day conducted at Nada gram |
| | | 1 | 29 | Field day conducted At Nyayatharpu village Application of AMC, Pepper special and Arka Actinoplus were effective in management of quick wilt, spike dropping and increased yield |
| | | 1 | 30 | Farmers field day programme on INM IPM and IDM in coconut |
| | | 1 | 30 | Farmers field day programme on INM IPM and IDM in coconut |
| | | 1 | 80 | Fisheries field day of FLD on Composite fish culture of carps with pungasius |
| | | 1 | 32 | Celebrated Field day of FLD on Management of potassium in coastal paddy |
| | | 1 | 28 | Conducted field day on Eco-friendly pest management in paddy |
| | | 1 | 32 | Conducted field day on Integrated management of African giant snail |
| | | 1 | 30 | Organised Farmers Field Day on Scientific cultivation in coconut |
| | | 1 | 17 | FLD on composite fish culture using paungasius sutchi with carps |
| 2 | Farmers Training | 3 | 62 | Demonstration of Sahyadri Panchamukhi red rice variety for lowlands in Dakshina Kannada |
| | | 2 | 32 | Demonstration of Prathiksha red rice variety for midlands in Dakshina Kannada |
| | | 2 | 10 | Demonstration of Shade Tolerant Guinea grass in Coconut plantation |
| | | 1 | 28 | Management of nut cracking and premature nut fall in Areca nut |
| 3 | Field Day | 1 | 32 | Potassium Management in Coastal Paddy |
| | | 1 | 15 | Eco-friendly Pest management in Paddy |

| | | | | | |
|---|----------------|--------------------------------------|----|--|---------------------------------------|
| | | 1 | 14 | Integrated crop management in pepper | |
| | | 3 | 71 | Integrated management of African snails | |
| | | 1 | 16 | Integrated management of stem and root borer in cashew nut | |
| | | 1 | 20 | Composite Fish Culture of Carps with <i>Pangassius sctchi</i> to enhance fish production | |
| | | 1 | 40 | Amur Common Carp as diversified species for increasing fish production | |
| 4 | Media coverage | 2 | - | Demonstration of Sahyadri Panchamukhi red rice variety for lowlands in Dakshina Kannada | |
| | | 1 | - | Demonstration of Prathiksha red rice variety rice variety for midlands in Dakshina Kannada | |
| | | 1 | - | Management of nut cracking and premature nut fall in Areca nut | |
| | | 1 | - | Potassium Management in Costal Paddy | |
| | | 1 | - | Eco-friendly Pest management in Paddy | |
| | | 3 | - | Integrated crop management in pepper | |
| | | 2 | - | Management of red palm weevil in arecanut | |
| | | 3 | - | Integrated management of African snails | |
| | | 1 | - | Integrated management of stem and root borer in cashew nut | |
| | | 4 | - | Composite Fish Culture of Carps with <i>Pangassius sctchi</i> to enhance fish production | |
| | | 5 | - | Amur Common Carp as diversified species for increasing fish production | |
| 4 | | Training for extension functionaries | 1 | 40 | Eco-friendly Pest management in Paddy |
| 5 | | Others (Please specify) | - | - | - |
| | | | | | |
| | | | | | |
| | | | | | |

PART VI – DEMONSTRATIONS ON CROP HYBRIDS : -Nil-

Demonstration details on crop hybrids

[illegible]

| | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mustard | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sesame | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sunflower | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Groundnut | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Soybean | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Pulses | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Greengram | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Blackgram | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Bengalgram | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Redgram | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Vegetable crops | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Bottle gourd | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Capsicum | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cucumber | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tomato | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Brinjal | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Okra | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Onion | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Potato | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Field bean | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Commercial crops | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sugarcane | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Coconut | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 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: -Nil-

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

[illegible]

| | | | | | | | | | | |
|--|---|----|----|----|---|---|----|----|----|----|
| Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| Home Science/Women empowerment | - | - | - | - | - | - | - | - | - | - |
| Household food security by kitchen gardening and nutrition gardening | 1 | 20 | 32 | 52 | 6 | 7 | 13 | 26 | 39 | 65 |
| 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 | 1 | 0 | 25 | 25 | 0 | 0 | 0 | 0 | 25 | 25 |
| 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 | 2 | 48 | 32 | 80 | 2 | 2 | 4 | 50 | 34 | 84 |
| Integrated Disease Management | 1 | 0 | 32 | 32 | 0 | 0 | 0 | 0 | 32 | 32 |
| Bio-control of pests and diseases | 1 | 7 | 6 | 13 | 0 | 0 | 0 | 7 | 6 | 13 |
| Production of bio control agents and bio pesticides | 1 | 3 | 3 | 6 | 0 | 0 | 0 | 3 | 3 | 6 |

[illegible]

| | | | | | | | | | | |
|---|-----------|-------------|------------|-------------|------------|------------|------------|-------------|-------------|-------------|
| Mushroom production | 1 | 106 | 52 | 158 | 0 | 0 | 0 | 106 | 52 | 158 |
| 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 | 3 | 117 | 92 | 209 | 59 | 45 | 104 | 176 | 137 | 313 |
| Others (pl.specify)Swachta Pakwada | 1 | 159 | 61 | 220 | 47 | 43 | 90 | 206 | 104 | 310 |
| Agro-forestry | - | - | - | - | - | - | - | - | - | - |
| Production technologies | 1 | 159 | 61 | 220 | 7 | 43 | 90 | 166 | 104 | 270 |
| Nursery management | 1 | 92 | 4 | 96 | - | - | - | 2 | 4 | 96 |
| Integrated Farming Systems | - | - | - | - | - | - | - | - | - | - |
| Others (Pl. specify)Bio fuel production and usage IOC | 1 | 12 | 5 | 17 | 2 | 2 | 4 | 14 | 7 | 21 |
| TOTAL | 55 | 1731 | 889 | 2620 | 185 | 220 | 405 | 1916 | 1109 | 3025 |

| | | | | | | | | | | |
|--|----|-----|----|-----|----|---|----|-----|----|-----|
| Processing and cooking | - | - | - | - | - | - | - | - | - | - |
| Gender mainstreaming through SHGs | - | - | - | - | - | - | - | - | - | - |
| 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 | 10 | 190 | 50 | 240 | 10 | 0 | 10 | 200 | 50 | 250 |
| Integrated Disease Management | 1 | 12 | 11 | 23 | 30 | 3 | 33 | 42 | 14 | 56 |
| Bio-control of pests and diseases | - | - | - | - | - | - | - | - | - | - |
| Production of bio control agents and bio pesticides | 2 | 33 | 12 | 45 | 1 | - | 1 | 34 | 12 | 46 |
| Others (pl.specify) | 1 | 11 | 12 | 23 | 30 | 3 | 33 | 41 | 15 | 56 |
| Fisheries | - | - | - | - | - | - | - | - | - | - |
| Integrated fish farming | 3 | 61 | 25 | 86 | - | - | - | 61 | 25 | 86 |
| Carp breeding and hatchery management | - | - | - | - | - | - | - | - | - | - |
| Carp fry and fingerling rearing | - | - | - | - | - | - | - | - | - | - |
| Composite fish culture | 3 | 39 | 22 | 61 | 23 | 2 | 25 | 88 | 24 | 112 |

| | | | | | | | | | | |
|---|-----------|-------------|-------------|-------------|------------|------------|------------|-------------|-------------|-------------|
| 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) | 1 | 30 | 10 | 40 | 1 | 3 | 4 | 31 | 13 | 44 |
| TOTAL | 38 | 1784 | 1187 | 2971 | 170 | 193 | 363 | 1954 | 1380 | 3334 |

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

[illegible]

| | | | | | | | | | | |
|--|---|----|---|----|----|---|----|----|---|----|
| Small scale processing | - | - | - | - | - | - | - | - | - | - |
| Post Harvest Technology | - | - | - | - | - | - | - | - | - | - |
| Tailoring and Stitching | - | - | - | - | - | - | - | - | - | - |
| Rural Crafts | - | - | - | - | - | - | - | - | - | - |
| Production of quality animal products | - | - | - | - | - | - | - | - | - | - |
| Dairying | - | - | - | - | - | - | - | - | - | - |
| Sheep and goat rearing | - | - | - | - | - | - | - | - | - | - |
| Quail farming | - | - | - | - | - | - | - | - | - | - |
| 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) FoCT palm climbing programme | 3 | 44 | 4 | 48 | 10 | 2 | 12 | 54 | 6 | 60 |
| TOTAL | 3 | 44 | 4 | 48 | 10 | 2 | 12 | 54 | 6 | 60 |

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

[illegible]

7.E.Training programmes for Extension Personnel 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 |
| Productivity enhancement in field crops | 2 | 10 | 5 | 15 | - | - | - | 10 | 5 | 15 |
| Integrated Pest Management | 2 | 16 | 7 | 17 | - | - | - | 16 | 1 | 17 |
| Integrated Nutrient management | - | - | - | - | - | - | - | - | - | - |
| Rejuvenation of old orchards | - | - | - | - | - | - | - | - | - | - |
| Protected cultivation technology | - | - | - | - | - | - | - | - | - | - |
| Production and use of organic inputs | 1 | 36 | 23 | 59 | 0 | 0 | 0 | 36 | 23 | 59 |
| 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) Nursery Management | 4 | 66 | 17 | 83 | 00 | 0 | 0 | 66 | 17 | 83 |
| Total | 9 | 128 | 52 | 174 | 0 | 0 | 0 | 128 | 46 | 174 |

7.F. Training programmes for Extension Personnel 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 |
| Productivity enhancement in field crops | - | - | - | - | - | - | - | - | - | - |
| Integrated Pest Management | - | - | - | - | - | - | - | - | - | - |
| Integrated Nutrient management | 1 | 0 | 10 | 10 | 1 | 4 | 5 | 1 | 14 | 15 |
| 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 | 1 | 0 | 10 | 10 | 1 | 4 | 5 | 1 | 14 | 15 |

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 | 2 | 45 | 10 | 55 | 6 | 4 | 10 | 51 | 14 | 65 |
| 8.b. | Others (pl.specify) | - | - | - | - | - | - | - | - | - | - |
| 9. | Livestock and fisheries | - | - | - | - | - | - | - | - | - | - |
| 10 | Livestock production and management | - | - | - | - | - | - | - | - | - | - |
| 10.a. | Animal Nutrition Management | 1 | 9 | 36 | 45 | - | - | - | 9 | 36 | 45 |
| 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) | 3 | 44 | 4 | 48 | 10 | 2 | 12 | 54 | 6 | 60 |
| | Total | 6 | 98 | 50 | 148 | 16 | 6 | 22 | 114 | 56 | 170 |

Details of sponsoring agencies involved

| Sl. No. | Name of Project and purpose of funding | Name of funding agency* |
|---------|--|---|
| 1 | Block level seminar under a special drive for creating awareness about CDB schemes as part of extension activities for SC/ST in potential coconut growing belt of Dakshina Kannada Districts | Coconut Development Board, Bengaluru, Central Govt. |
| 2 | Diploma in Agricultural Extension Services for Input Dealers Programme | MANAGE, Hyderabad, Central Govt. |

| | | | | | | | | | | |
|--------------------------------------|------------|--------------|-------------|--------------|------------|------------|------------|-------------|------------|-------------|
| Workshops | 1 | 50 | 30 | 80 | 10 | 10 | 20 | - | - | - |
| Method Demonstrations | 44 | 1090 | 133 | 1223 | 4 | 2 | 6 | 91 | 38 | 129 |
| Celebration of important days | | | | | | | | | | |
| Republic Day | 1 | - | - | - | - | - | - | 7 | 2 | 9 |
| International Women's Day | 1 | - | 90 | 90 | - | - | - | 3 | 2 | 5 |
| World Water Day | 1 | 18 | 4 | 22 | 1 | 2 | 3 | 7 | - | 7 |
| World Honeybee Day | 1 | 28 | 17 | 45 | - | - | - | 2 | 1 | 3 |
| World Milk Day | 1 | 53 | 20 | 73 | - | - | - | 4 | - | 4 |
| World Environmental Day | 1 | 12 | 05 | 17 | 2 | 2 | 4 | 10 | 6 | 16 |
| World Yoga Day | 1 | - | - | - | - | - | - | 4 | 06 | 10 |
| 93 rd ICAR Foundation Day | 1 | 13 | 4 | 17 | 2 | 4 | 6 | 4 | - | 4 |
| National Fisheries Day | 1 | 40 | 20 | 60 | 20 | - | 20 | 3 | - | 3 |
| KVK, DK, Foundation Day | 1 | 11 | 3 | 14 | 3 | 4 | 7 | 5 | 3 | 8 |
| Independence Day | 1 | 7 | 3 | 10 | - | 4 | 4 | 3 | - | 3 |
| Food and Nutrition for farmers | 1 | 19 | 42 | 61 | - | 14 | 14 | 2 | - | 2 |
| World Fisheries Day | 1 | 55 | 39 | 94 | 18 | 11 | 29 | 8 | - | 8 |
| National Milk Day | 1 | 26 | 2 | 28 | - | - | - | 3 | - | 3 |
| World Soil Day | 1 | 1121 | 921 | 2042 | 200 | 0 | 200 | 2 | - | 2 |
| Special day celebrations | | | | | | | | | | |
| Swacchta Pakwada-2021 | 1 | 159 | 61 | 220 | 47 | 43 | 90 | 10 | 6 | 16 |
| Exposure visits | 2 | 91 | 2 | 93 | 5 | 2 | 7 | 5 | 0 | 5 |
| Others, Please specify | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 393 | 12260 | 3317 | 15577 | 349 | 119 | 468 | 1055 | 209 | 1264 |

8.2 Other extension activities like print and electronic media etc.

| Sl. No. | Type of media/activity | Number of activities/Number |
|---------|---|-----------------------------|
| 1 | Popular articles | 4 |
| 2 | Newspaper coverage | 51 |
| 3 | Extension Literature | 16 |
| 4 | Radio Talks | 2 |
| 5 | TV Talks | 1 |
| 6 | CD/DVD/Video clips | 7 |
| 7 | Animal health camps (no. of animal treated) | - |
| 8 | Others, please specify | - |
| | Total | 81 |

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) | Paddy | Sahyadri Panchamukhi | 5.65 | 17515.00 | 7 |
| | Paddy | MO-4 | 11.15 | 34561.00 | 15 |
| Oilseeds | - | - | - | - | - |
| Pulses | - | - | - | - | - |
| Commercial crops | - | - | - | - | - |
| Vegetables | - | - | - | - | - |
| Flower crops | - | - | - | - | - |
| Spices | - | - | - | - | - |
| Fodder crop seeds | - | - | - | - | - |
| Fiber crops | - | - | - | - | - |
| Forest Species | - | - | - | - | - |
| Others (specify) Seeds facilitated to farmers | Green Manure | Sunhemp Seeds | 0.78 | 6240.00 | 5 |
| | | Dhaincha Seeds | 0.65 | 5200.00 | 4 |
| Total | | | 18.23 | 63516.00 | 31 |

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 | - | - | - | - | - |
| Fruits | - | - | - | - | - |

| | | | | | |
|------------------------|-----------------|---|-----|------|---|
| Ornamental plants | - | - | - | - | - |
| Medicinal and Aromatic | - | - | - | - | - |
| Plantation | - | - | - | - | - |
| Spices | - | - | - | - | - |
| Tuber | - | - | - | - | - |
| Fodder crop saplings | Fodder cuttings | | 706 | 1800 | 8 |
| Forest Species | - | - | - | - | - |
| Others(specify) | - | - | - | - | - |
| Total | | | 706 | 1800 | 8 |

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

| | Name of the bio-product | Quantity (q) | Value (Rs.) | Number of farmers to whom provided |
|---------------------|-------------------------|--------------|--------------|------------------------------------|
| Bio Products | | | | |
| Bio Fertilizers | - | - | - | - |
| Bio-pesticide | - | - | - | - |
| Bio-fungicide | - | - | - | - |
| Bio Agents | - | - | - | - |
| Others (specify) | Earth worms | 0.172 | 11180 | 11 |
| | Vermi Compost | 1.10 | 1650 | 4 |
| | FYM | 0.65 | 4875 | 27 |
| | - | - | - | - |
| | - | - | - | - |
| - | - | - | - | - |
| Total | | 1.922 | 17705 | 42 |

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 | - | - | - | - |
| Layers | - | - | - | - |
| Duals (broiler and layer) | - | - | - | - |
| Japanese Quail | - | - | - | - |
| Turkey | - | - | - | - |
| Emu | - | - | - | - |
| Ducks | - | - | - | - |
| Others (Pl. specify) Poultry | Swarnadhara | 1047 | 104700.00 | 114 |
| Piggery | - | - | - | - |
| Piglet | - | - | - | - |
| Others (Pl. specify) | - | - | - | - |
| Fisheries | | | | |
| Fingerlings | Pangasius Sutchi | 2750 | 8250 | 1 |
| | Amur Common Carp | 4420 | 12550 | 5 |
| | Catla | 8940 | 13140 | 17 |
| | Grass carp | 1850 | 2775 | 4 |
| | Rohu | 4025 | 6037 | 13 |
| | Common Carp | 2445 | 3667 | 7 |
| Others (Pl. specify) | - | - | - | - |
| Total | | 27387 | 343178.00 | 161 |

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: _____ Periodicity: _____ Copies printed in each issue: _____

(ii) Summary of Literature developed/published

| Item | Number |
|-----------------------------------|--------|
| Research papers- International | - |
| Research papers- National | - |
| Technical reports | 10 |
| Technical bulletins | - |
| Popular articles - English | - |
| Popular articles – Local language | 1 |
| Extension literature | 15 |
| 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. : Nil
2. Technical Reports/ bulletins: Authors name, Title of the technical report, name of publishing KVK, number of pages.: NIL
3. Popular articles: Authors name, Title of the article, date of publication, Name of the newspaper/magazine, page no.

| Authors name | Title of the article | Date of publication | Name of the newspaper/magazine | Page no. |
|---|--|---------------------|--------------------------------|-----------------|
| Naveen Kumar, B. T., T. J. Ramesha, Mallikarjuna, L., Chethan, N. and Kedarnath | Yanthrikruta Bhatada krushiyalli kushi kanda raitha Shri. Ramanatha | | Negila Miditha | Vol. No. 7, p.3 |

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.

| Authors name | Month and year of publication | Title of extension literature like folders | pamphlets etc | Name of publishing KVK | Number of pages |
|---|-------------------------------|---|---------------|------------------------|-----------------|
| Technical Folders: | | | | | |
| Dr. Naveen Kumar B.T. | 23.02.2021 | Fodder Production and Utilization | - | KVK Dakshina Kannada | 2 |
| Kedarnath, Rashmi R., T. J. Ramesha and Mallikarjuna L | 22.02.2021 | Integrated Crop Management in Coconut | - | KVK Dakshina Kannada | 12 |
| Naveen Kumar, B. T., T. J. Ramesha, Mallikarjuna, L., Chethan, N., Kedarnath and Rashmi, R. | 30.06.2021 | Package of practice to improve paddy yield | - | KVK Dakshina Kannada | 3 |
| Naveen Kumar, B. T., T. J. Ramesha, Mallikarjuna, L., Chethan, N., Kedarnath and Rashmi, R. | 30.06.2021 | Flood resistant red rice variety – Sahyadri Panchamukhi | - | KVK Dakshina Kannada | 2 |
| Naveen Kumar, B. T., T. J. Ramesha, Mallikarjuna, L., Chethan, N., Kedarnath and Rashmi, R. | 03.07.2021 | Package of practice to improve paddy yield | - | KVK Dakshina Kannada | 3 |
| Naveen Kumar, B. T., T. J. Ramesha, Mallikarjuna, L., Chethan, N., Kedarnath and Rashmi, R. | 03.07.2021 | Flood resistant red rice variety – Sahyadri Panchamukhi | - | KVK Dakshina Kannada | 2 |
| Naveen Kumar, B. T., T. J. Ramesha, Mallikarjuna, L., Chethan, N., Kedarnath and Rashmi, R. | 13.07.2021 | Package of practice to improve paddy yield | - | KVK Dakshina Kannada | 3 |
| Naveen Kumar, B. T., T. J. Ramesha, Mallikarjuna, L., Chethan, N., Kedarnath and Rashmi, R. | 13.07.2021 | Flood resistant red rice variety – Sahyadri Panchamukhi | - | KVK Dakshina Kannada | 1 |
| Kedarnath, T.J. Ramesha | 31.07.2021 | Management of African snail | - | KVK Dakshina Kannada | 2 |
| Kedarnath, T.J. Ramesha | 31.07.2021 | Integrated leaf spot management in arecanut | - | KVK Dakshina Kannada | 2 |
| Kedarnath, T.J. Ramesha | 10.08.2021 11.08.2021 & | Management of African snail | - | KVK Dakshina Kannada | 2 |

| | | | | | |
|---|------------|--|---|----------------------|----|
| | 31.08.2021 | | | | |
| Chethan N., T.J. Ramesha | 26.08.2021 | Fish and prawn chutney preparation | - | KVK Dakshina Kannada | |
| Chethan N.Dr. T.J. Ramesha | 28.09.2021 | Fish and prawn chutney preparation | - | KVK Dakshina Kannada | |
| Naveen Kumar B. T. | 07.10.2021 | Vermicompost preparation through farm waste by using compost culture | - | KVK Dakshina Kannada | 3 |
| Naveen Kumar B. T. | 08.10.2021 | PoP on paddy | - | KVK Dakshina Kannada | 4 |
| Kedarnath, Rashmi R., T. J. Ramesha and Mallikarjun L | 10.12.2021 | Integrated crop management practices in coconut | - | KVK Dakshina Kannada | 12 |
| Books: | | | | | |
| Dr. Chethan N, Dr. T J Ramesha | 31.03.2021 | New technologies in fish culture (BOOKLET) | - | KVK Dakshina Kannada | |

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 | 1. KVK Dakshina Kannada Raithabandu 2. Fish farmers United 3. Kalyana foundation 4. Mangaluru krishika samaja 5. Plant protection 6. Krishika samaja 7. ICM in pepper 8. INT crop management in pepper 9. African snail management | Farming community is linked through whatsapp groups with routine sharing of information by the farmers and scientific guidance by scientists of KVK. |
| 4 | Facebook account name | kvkdakshinakannada | Farming community is linked through Facebook groups with routine sharing of information by the farmers and scientific guidance by scientists of KVK. |
| 5 | Instagram account name | - | - |
| 6 | Others if any- Youtube | kvkdakshinakannada | - |

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).

Success Story:

Title: Demonstration of Sahyadri Panchamukhi red rice variety for lowlands in Dakshina Kannada

Background: In coastal Karnataka more priority has been paid towards cultivation of indigenous red paddy varieties. But these varieties are tall with lodging problem, does not respond to fertilizer and provide lesser yields. Generally paddy varieties such as MO4 and indigenous variety-Kajejaya have been cultivated in large area even with a weeklong flood situation resulting in less production. During July to October paddy growers in coastal Karnataka (Dakshina Kannada) face frequently more number of floods and out of 11248 ha total paddy area, more than 600 ha of paddy land that inundates with flood for long duration creating unfavorable situation for paddy cultivation and resulting in low production. Hence, there is a need of suitable paddy variety for low lying flood situation of the region. In this regard, flood resistant red rice variety-Sahyadri Panchamukhi (under AICRP on Rice Project) released by ZAHRS, Brahmavar functioning under the University of Agriculture and Horticultural Sciences, Shivamogga during 2019.

Interventions: During 2020-21, Six capacity building programmes were organized at Delanthabettu village benefiting 162 farmers and 1.50 quintals of truthful labeled paddy seed as critical input was provided to motivate the farmers for adoption of new variety. The seed production activity was initiated by ICAR-Krishi Vigyan Kendra, Dakshina Kannada, Mangalore through demonstration programmes both at KVK Farm and farmers plots covering an area of 6 acre areas under Front Line Demonstration programme of ICAR – KVK Dakshina Kannada, Mangaluru. Field Day was organized on 5.11.2020 at Delanthabettu village as well as at KVK instructional farm benefiting 97 farmers and 4 extension personnels. The activities were also covered in Medias such as DD Chandana TV channel, All India Radio and local newspapers for popularization of the variety.

Process: Considering the non-availability of quality seed of flood resistant red rice and demand across the coastal Karnataka, ICAR -KVK has planned to take up quality seed production activities at village level covering more area as well as at instructional farm during the succeeding year of 2021-2022 to meet the potential demand of farmers in the Coastal Karnataka.

Technology: Flood resistant red rice variety Sahyadri Panchamukhi for lowlands of Dakshina Kannada

Output and outcome: One such benefited agripreneur from ICAR – KVK, DK, named Mr. Dayanand from Delantha Bettu could produce 100 quintal of paddy seeds. Out of which 80 quintals was sold to farmers from adjacent villages of Mangalore taluk for horizontal spread of the variety and 20 quintals of paddy was processed to rice as it possess good aroma with good consumer preference.

Impact:

Horizontal Spread: about 60 quintals of quality seeds sold to 220 farmers across the district through KVK, agriculture department and personally to cover an area of 84.

Economic gains: This would help in utilization of unutilized low laying paddy of 300 acre with production of 600 tones grain with gross income of Rs. 1.08, net income Rs. 63 lakhs, 1200 tons of paddy straw as fodder (as the district facing crucial fodder crises to support livestock and mushroom production sectors).

Employment Generation: creates employment generations for 12000 farmers/farm women as labor force for agriculture operations during cropping period.

Photos



Capacity building programmes for flood prone paddy growers at Delanthabettu village, Mangaluru Taluk



Capacity building programmes for flood prone paddy growers at Harekala village, Mangaluru Taluk



Inauguration and implementation of FrontLine demonstration on Flood resistant red rice variety – Sahyadri Panchamukhi by MLA Shri. Umanatha Kotian at Moodashedde Village



Celebration of field day on flood resistant red rice variety – Sahyadri panchamukhi for coastal. s

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

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)

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

10 F. Technology Week celebration: -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 :

1. Year of establishment : 2011
2. List of equipments purchased with amount : No. Equipment Purchased during reporting period

| Sl. No | Name of the Equipment | Qty. | Cost | Status |
|--------|-----------------------|------|------|--------|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 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 | 1395 | 1395 | 502 | 279000.00 |
| Water Samples | 688 | 688 | 236 | 34400.00 |
| Plant samples | - | - | - | - |
| Manure samples | - | - | - | - |
| Others (specify) | - | - | - | - |
| Total | 2083 | 2083 | 738 | 313400.00 |

C. Details of samples analyzed during 2021:

| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages | Amount realized (Rs.) |
|------------------|-------------------------|--------------------------|-----------------|-----------------------|
| Soil Samples | 209 | 209 | 209 | 41800 |
| Water Samples | 115 | 115 | 115 | 5750 |
| Plant samples | - | - | - | |
| Manure samples | - | - | - | |
| Others (specify) | - | - | - | |
| Total | 324 | 324 | - | 47550 |

11.2 Mobile Soil Testing Kit : Nil-

A. Date of purchase and current status

| Mobile Kits | Date of purchase | Current status |
|-------------|------------------|--|
| 1. | 01.03.2017 | The reagents of Mridaparikshak are exhausted, trying to refill the reagents of Mridaparikshak but currently they are not available |
| 2. | 25.05.2019 | The reagents of Mridaparikshak are exhausted, trying to refill the reagents of Mridaparikshak but currently they are not available |
| | | |

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

| | During 2020 | During 2021 | Cumulative progress (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: NIL

| 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 Minister/MLA attended (No.) | Other Representatives participated | Officials participated (No.) | Media coverage (No.) |
|---------|----------------------------|--------------------------------|----------------------------------|------------------------------------|------------------------------|----------------------|
| 1 | 2242 | - | | | 4 | |

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) |
| | | | | |

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 |
|---|---|
| Agricultural Technology Application Research Institute, Bengaluru (ATARI) | Technical and Financial Support |
| Karnataka Veterinary, Animal and Fisheries University, Bidar | Technical and Administrative Support |
| Indian Council of Agricultural Research (ICAR) | Financial Support |
| ICAR - Director of Cashew Research, Puttur | Joint Implementation |
| ICAR-Central Institute of Fisheries Technology, Cochin | Joint Implementation |
| CPCRI, Kasaragod | Joint Implementation |
| Deputy Commissioner's office Dakshina Kannada Dakshina Kannada Zilla Panchayath | Participation in meeting Participation in meeting |
| Development Departments Department of Agriculture, Department of Horticulture, Department of Animal Husbandry and Veterinary services, Department of Fisheries, Department of Forest Department Department of Women & Child welfare Development, | <ul style="list-style-type: none"> ➤ Participation in trainings as resource persons ➤ Participation in meeting ➤ Providing technical information for the Extension functionaries during bi-monthly workshops ➤ Joint Diagnostic Field Visits to problematic areas and crops in the District. ➤ Participation in Kissan Melas, Krishi Utsav ➤ Participation in Krishi Abhiyana |
| Non-Governmental Organizations Shree Kshetra Dharmasthala Rural Development Project (SKDRDP), Dharmasthala Vijaya Rural Developmental Foundation (VRDF) Bharatiya Vikas Trust, Manipal | <ul style="list-style-type: none"> ➤ Participation in agricultural seminars as resource persons. ➤ Participation in Krishimelas and Krishi Ustavs. ➤ Participation in trainings for farmers as resource persons |
| NABARD, Banks, Co-operative Agriculture Banks, Cooperative Societies | <ul style="list-style-type: none"> ➤ Participation in farmers training programmes as resource persons ➤ Providing of critical inputs for OFT, FLD programmes implementation |
| All India Radio | <ul style="list-style-type: none"> ➤ Dissemination of technologies through radio talks, ➤ Announcing of messages to the farmers and KVK training program schedules. ➤ Schedule of Agricultural Operations |

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.) |
|---|----------------------------------|--|---------------------|
| Friends of Coconut Tree (FOCT) Palm climbing Training Programme and Farmers Field Day | 19.01.2021 | Coconut Development Board, Regional Office Bengaluru, Ministry of Agriculture and Farmers Welfare, Govt of India | 59,500/- |
| Diploma in Agricultural Extension Services for Input Dealers Programme | January 2020 | MANAGE, Hyderabad, Central Govt. | 3,60,000/- |
| Energy Efficient Pumps and Water Conservation | 11.02.2021 | Karnataka Renewable Energy Development Limited, Bangaluru | 1,00,000/- |
| Friends of Coconut Tree (FOCT) Palm climbing Training Programme | 28.10.2021 | Coconut Development Board, Regional Office Bengaluru, Ministry of Agriculture and Farmers Welfare, Govt of India | 44,500/- |
| Farmers Field Day on scientific coconut cultivation | 28.10.2021 | Coconut Development Board, Regional Office Bengaluru, Ministry of Agriculture and Farmers Welfare, Govt of India | 22,500/- |
| Diploma in Agricultural Extension Services for Input Dealers Programme | December 2021 | MANAGE, Hyderabad, Central Govt. | 7,60,000/- |
| Friends of Coconut Tree (FOCT) Palm climbing Training Programme and | 25.11.2021 | Coconut Development Board, Regional Office Bengaluru, Ministry of Agriculture and Farmers Welfare, Govt of India | 44,500/- |
| Block level seminar | 13.01.2022 | Coconut Development Board, Regional Office Bengaluru, Ministry of Agriculture and Farmers Welfare, Govt of India | 40,000/- |
| Technological dissemination on fish post harvest management and value addition of fish development | 21.02.2022 | ICAR – Central Institute of Fisheries Technology, Cochin, Central Govt. | 500000/- |
| Awareness and capacity building programme on aquaculture to scheduled Caste Fishermen, Farmers, Youth and Women | 10.01.2022 | Manage, Hyderabad Central Govt. | 200000/- |
| Aquaculture of Scheduled Caste Fishermen Farmers, Youth and Women | 05.01.2022 | MANAGE, Hyderabad Central Govt. | 153000.00 |

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 | - | - | - | - |
| | | | | | |
| 04 | Demonstrations | - | - | - | - |
| | | | | | |
| 05 | Extension Programmes | - | - | -- | - |
| | Kisan Mela | - | - | - | - |
| | Technology Week | - | - | - | - |
| | Exposure visit | - | - | - | - |
| | Exhibition | - | - | - | - |
| | Soil health camps | - | - | - | - |
| | Animal Health Campaigns | - | - | - | - |
| | Others (Pl. specify) | Diagnostic Visit | 10 | - | - |
| 06 | Publications | | | | |
| | Video Films | - | - | - | - |
| | Books | - | - | - | - |
| | Extension Literature | 4 | - | - | - |
| | 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

| 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 | 14 | Text | 4 | 3 | - | - | 5 | 2 | 14 | 657 |
| February | 16 | Text | 2 | 4 | - | - | 8 | 2 | 16 | 1092 |
| March | 15 | Text | 3 | 4 | - | - | 6 | 2 | 15 | 2308 |
| April | 6 | Text | 3 | - | - | - | - | 3 | 6 | 356 |
| May | 15 | Text | 6 | 2 | - | - | 4 | 3 | 15 | 2465 |
| June | 20 | Text | 4 | 4 | - | 4 | 6 | 4 | 20 | 1669 |
| July | 12 | Text | 8 | 2 | - | - | - | 2 | 12 | 1092 |
| August | 20 | Text | 5 | 5 | - | - | 3 | 7 | 20 | 2306 |
| September | 12 | Text | 4 | 5 | - | - | 1 | 2 | 12 | 2469 |
| October | 13 | Text | 3 | 2 | - | 2 | 3 | 3 | 13 | 1950 |
| November | 4 | Text | 2 | - | - | - | - | 2 | 4 | 661 |
| December | 18 | Text | 5 | 4 | | 1 | 4 | 4 | 18 | 2978 |
| Total | 165 | | 49 | 35 | 0 | 7 | 40 | 36 | 165 | 20003 |

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 | |
| | | | | | | | | | |

14B. Performance of instructional farm (Crops) including seed production

| 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 | 19.06.2020 | 16.11.2020 | 1.50 | MO-4 | TL-Seeds | 11.15 | 30000.00 | 34565 | - |
| | 19.06.2020 | 16.11.2020 | | Sahidre Panchamukhi | TL-Seeds | 5.65 | 15229.00 | 17515 | - |
| Pulses | - | - | - | - | - | - | - | - | |
| | | | | | | | | | |
| Oilseeds | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | |
| Fibers | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | |
| Spices & Plantation crops | | | | | | | | | |
| | | | | | | | | | |
| Floriculture | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | |
| Fruits | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | |
| Vegetables | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | |
| Others (specify) | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

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

| Sl. No. | Name of the Product | Qty | Amount (Rs.) | | Remarks |
|---------|---------------------|-------|----------------|--------------|---------|
| | | | Cost of inputs | Gross income | |
| 1 | Compost culture | 9 Kg. | 1500.00 | 1620.00 | - |
| | | | | | |

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 | Fish seed rearing | 1. Catla 2. Rohu 3. Common carp 4. Grass carp 5. Amur common carp 6. Pangasius <i>Labeo fimbriatus</i> | Seed rearing | 24430 | 14240.00 | 46689.00 | Seed rearing and distribution is carried out using 80 mt square area tanks |
| 2 | Dairy | HF, Jersey | Milk | 13486 lit | 466734.00 | 512468.00 | - |
| 4 | Poultry | Swarnadhara | Chicks | 1047 | 71963.00 | 104700.00 | Sold to 114 farmers |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

14E. Utilization of hostel facilities

Accommodation available (24 No. of beds)

| Months | No. of trainees stayed | Trainee days (days stayed) | Reason for short fall (if any) |
|-----------|------------------------|----------------------------|--------------------------------|
| January | 40 | 1 | - |
| February | 300 | 18 | - |
| March | 102 | 12 | - |
| April | 0 | 0 | - |
| May | 0 | 0 | - |
| June | 0 | 0 | - |
| July | 0 | 0 | - |
| August | 1 | 1 | - |
| September | 28 | 3 | - |
| October | 15 | 16 | - |
| November | 11 | 3 | - |
| December | 67 | 7 | - |

14F. Database management

| S.No | Database target | Database created |
|------|--|---|
| 1 | OFT | All data are uploaded in OLRs & MPR and AEMPR in Farmers Portal |
| 2 | FLD | |
| 3 | Training | |
| 4 | Farmers visited to KVK | |
| 5 | Extension Activities | |
| 6 | Field Visit | |
| 7 | Farmers(SC,ST differently abled,Physically Challenged,FPOs ,Fisherfolks) | |

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

(a) Rain Water Harvesting Structure

[illegible]

(b) Micro-irrigation systems

[illegible]

PART XV – SPECIAL PROGRAMMES

15.1 Paramparagath Krishi Vikas Yojana (PKVY)

| 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. Ajjavara | 250.88 | 46.8 | 107.3 | 1.20 | Vemi-compost units established | Arecanut, Black Pepper, Coconut, Banana, Cocoa, Cashew nut, Cow pea, Green gram, Brinjal, Ridge gourd, Okra, Cucumber, Jack fruit | - | Vermicompost, Jeevamrutha, AMC, PROM, Trichodema, FYM | -- | - | - |
| | 2. | | | | | | | | | | | |
| 2 | 1. Mandekolu | 264.32 | 33.8 | 115.8 | 1.15 | | Arecanut, Black Pepper, Coconut, Banana, Cocoa, Cashew nut, Cow pea, Green gram, Brinjal, Ridge gourd, Okra, Cucumber, Jack fruit | | Vermicompost, Jeevamrutha, AMC, PROM, Trichodema, FYM | - | - | - |
| | 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 programme organized : -Nil-

| State | Name of KVK | Details of Activities/programme Organised | Number of Chief Guests | No. of Farmers attended program | Total participants |
|-------|-------------|---|------------------------|---------------------------------|--------------------|
| - | - | - | - | - | - |

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: -NIL-

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

15.6 CFLDs on Pulses:

| Sl.No. | Crop | Varieties demonstrated and check | Allocated | | Implemented | |
|--------|------------|----------------------------------|-----------|-------------|-------------|-------------|
| | | | Area (ha) | Demos (No.) | Area (ha) | Demos (No.) |
| 1 | Green gram | BGS-9 | 4 | 10 | 4 | 10 |
| | Total | | 4 | 10 | 4 | 10 |

15.7 Krishi Kalyan Abhiyan (Aspirational districts) : -NIL-

[illegible]

15.8 Micro-Irrigation : -NIL-

[illegible]

15.9 Tribal Sub-Plan (TSP): -NIL-

[illegible]

15.10 SCSP

| 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 |
|------------------------|----------------|------------------------|----------------------|------------------------|---------------|------------------------|--------------------|---------------------------|----------------------------|------------------|-------------------------|--|------------------------|--|--|--|--|
| 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 | Front line demos | Mobile agro-advisory to | | | | | | |

| 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 | - | - |

[illegible]

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

16.1 Farmers feedback on performance of crop varieties/hybrids : -NIL-

| Sl. No. | Crop varieties/hybrids assessed/ demonstrated | Farmer's feedback |
|---------|---|--|
| 1 | Demonstration of Sahyadri Panchamukhi red rice variety for lowlands in Dakshina Kannada | Very much needed variety by the farmers for flooded situation, rice is very much demanded due to its aroma and taste. |
| 2 | Demonstration of short duration red rice variety Pratheeksha for rabi/summer | Very much needed variety by the farmers. Due to non-availability of short duration variety more than 80 % of the land kept fallow during rabi, by growing Pratheeksha farmers can take up two crops in a year. |

16.2 Farmers feedback on performance of agronomic practices :-NIL-

| Sl. No. | Agronomic practices | Farmer's feedback |
|---------|---------------------|-------------------|
| - | - | - |

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. | Stem borer, leaf folder and gandhi bug in paddy | Eco-friendly pest management methods minimized risk of pesticides and also reduced pest infestation in paddy |
| 2. | Quick wilt and spike shedding in pepper | Integrated crop management approaches reduced the quick wilt incidence and spike shedding in pepper. The highest yield recorded from the demonstration plots applied with Arka microbial consortium, Arka action plus, and pepper special |
| 3. | Red palm weevil in coconut and areca nut | Integrated pest management approaches reduced the incidence of red palm weevil |
| 4. | Stem and root borer in cashew nut | Reduced incidence of CSRB infestation |
| 5. | African snail management in horticulture crops | Integrated approaches reduced the incidence and population African snails in horticultural crops |

16.4 Farmers feedback on performance of farm machinery technologies: -NIL-

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

16.5 Farmers feedback on performance of livestock and fisheries technologies : Nil-

| Sl. No. | Livestock/fisheries technologies | Farmer's feedback |
|---------|---|---|
| 1 | <ul style="list-style-type: none"> Effective use of niche in the culture system Maximum production compared to monoculture Multiple species production gives more market value. <p><i>Constraints:</i> Dakshina kannada has farm ponds where the depth is more than 10 feet and in these conditions bottom dwelling fishes don't perform good growth as majority of tanks are soilless and depth is also more.</p> | <ul style="list-style-type: none"> Dakshina kannada farmers are mainly dependent on marine fish consumption, as it is a integral part of the daily meal and consumption of freshwater cultured fish is still in a initial stage of acceptance by the locals. |

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 | Canara Bank | Nandinagar Branch, KVAFSU, Bidar 585401 | - | SB | 3158101000005 | 585015104 | CNRB 0003158 |
| With KVK | Canara Bank | Fisheries College Branch, Mangaluru-575002 | B0008520 | SB | 8520101100857 (General) 8520101100918 (RF) | 2011MCSB | CNRB0008520 |

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

| S. No. | Particulars | Sanctioned | Released | Expenditure |
|---------------------------------------|--|---------------|---------------|------------------|
| A. Recurring Contingencies | | | | |
| 1 | Pay & Allowances | 104.59 | 104.59 | 114.42308 |
| 2 | Traveling allowances | 7.75 | | 1.73699 |
| 3 | Contingencies | | | |
| A | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 3.48 | | 3.40404 |
| B | POL, repair of vehicles, tractor and equipments | 1.75 | 1.75 | 2.05738 |
| C | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained) | 0.50 | | 0.48389 |
| D | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | 1.63 | 1.63 | 1.60855 |
| E | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | 2.81 | 2.81 | 2.21760 |
| F | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | 0.97 | 0.97 | 0.79863 |
| G | Training of extension functionaries | 0.25 | 0.25 | 0.26491 |
| H | Maintenance of buildings | 2.50 | 2.50 | 2.49433 |
| I | Establishment of Soil, Plant & Water Testing Laboratory | 0.50 | 0.50 | 1.12015 |
| J | Library | 0.10 | 0.10 | 0.11290 |
| | Extension Activitis | 0.25 | 0.25 | 0.27948 |
| | Nutrigardens | 0.20 | 0.20 | 0.10130 |
| TOTAL (A) | | 121.28 | 121.28 | 131.10333 |
| B. Non-Recurring Contingencies | | | | |
| 1 | Works | | | |
| 2 | Equipment including SWTL & Furniture (Computer) | 2.43 | 2.43 | 2.43 |
| 3 | Vehicle (Four wheeler/Two wheeler, please specify) | - | - | - |
| 4 | Library (Purchase of assets like books & journals) | - | - | - |
| TOTAL (B) | | 2.43 | 2.43 | 2.43 |
| C. REVOLVING FUND | | | | |
| GRAND TOTAL (A+B+C) | | 123.71 | 123.71 | 133.53333 |

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

| Year | Opening balance as on 1 st January | Income during the year | Expenditure during the year | Net balance in hand as on 31 st December of each year |
|--------------------------|---|------------------------|-----------------------------|--|
| January to December 2019 | 2.66 | 14.93 | 16.57 | 1.02 |
| January to December 2020 | 1.02 | 12.06 | 12.09 | 0.99 |
| January to December 2021 | 0.99 | 12.13 | 12.35 | 0.77 |

18. Details of HRD activities attended by KVK staff

| Name of the staff | Designation | Title of the training programme | Institute where attended | Dates |
|-----------------------|------------------------------|--|--|--------------------------------|
| January-2021 | | | | |
| Dr. Rashmi R. | Scientist (Horticulture) | Recent Advance in Mango Production | University of Horticultural Science, Bagalkot College of Horticulture, Bidar | 16.01.2021 to 17.01.2021 |
| February-2021 | | | | |
| Dr. Chethan N | Scientist (Fisheries) | Breeding & Culture of Major Carps | CIFT, Bengaluru | 03.02.2021 |
| Dr. Chethan N | Scientist (Fisheries) | Development of value added extruded fish products | CIFT, Cochin | 23.02.2021 |
| Dr. Chethan N | Scientist (Fisheries) | Production of high value secondary products from fish waste | CIFT, Cochin | 25.02.2021 |
| March-2021 | | | | |
| Dr. Chethan N | Scientist (Fisheries) | Development of Shrimp based value added products | CIFT, Cochin | 04-05 th March 2021 |
| Dr. Chethan N | Scientist (Fisheries) | Novel Fish Drying Techniques and Preservations | CIFT, Cochin | 12.03.2021 |
| Dr. Chethan N | Scientist (Fisheries) | Fishing gear materials identification and properties | CIFT, Cochin | 17.03.2021 |
| Dr. Naveen Kumar B.T. | Scientist (Agronomy) | Climate Change Adaptation in Agriculture | Center for climate Change and Adaptation (CCA) National Institute of Agricultural Extension Management (MANAGE) Rajendranagar Hyderabad 500030 | 23.03.2021 to 26.03.2021 |
| April 2021 | | | | |
| Dr. Kedarnath | Scientist (Plant Protection) | Social Equity – Recognizing and Facilitating Women Contribution to Agriculture | Centre for Agricultural Market Intelligence, NAHEP-CAAST | 09.04.2021 |

| | | | | |
|---------------|------------------------------|---|--|--|
| Dr. Kedarnath | Scientist (Plant Protection) | Digital Soil Science: Opportunities and Challenges | Department of Soil Science and Agricultural Chemistry, MPUAT, Udaipur (Rajasthan) | 12.04.2021 |
| Dr. Kedarnath | Scientist (Plant Protection) | Rashtriya Webinar-Bhumi Suposhan Evam Sanrakshan Hetu Janjagran Abhiyan | ICAR-Agricultural Technology Application Research Institute, Zone-VIII, College of Agriculture Campus, Shivajinagar, Pune | 15.04.2021 |
| Dr. Kedarnath | Scientist (Plant Protection) | Climate Resilient Agriculture for Food and Health Security | Dept. Agronomy, Rajasthan College of Agriculture MPUAT, Udaipur (Rajasthan) | 16.04.2021 |
| Dr. Kedarnath | Scientist (Plant Protection) | “Enhancing the Efficiency of Krishi Vigyan Kendras (KVKs)” | MPUAT, Udaipur | 22-24 th -April 2021 |
| Dr. Kedarnath | Scientist (Plant Protection) | Basics of IPR Management | NaaViC Agri-Business Incubation Centre, ICAR-NIVEDI, Bengaluru | 30.04.2021 |
| Dr. Chethan N | Scientist (Fisheries) | IPR | KSTA | April-2021 |
| Dr. Chethan N | Scientist (Fisheries) | Biofloc technology | Fric, Hebbal | April-2021 |
| Dr. Chethan N | Scientist (Fisheries) | National stake holders consultation on “Indian ornamental fisheries-2.0- the way forward” | CIFA | April-2021 |
| Dr. Chethan N | Scientist (Fisheries) | Enhancing Efficiency of KVK’s | MANAGE | April-2021 |
| Dr. Chethan N | Scientist (Fisheries) | Fish seed rearing | FRIC, Hebbal | April-2021 |
| MAY-2021 | | | | |
| Dr. Kedarnath | Scientist (Plant Protection) | Managing Health and Stress during COVID -19 | College of Community and Applied Sciences, MPUAT, Udaipur (Rajasthan) | 03.05.2021 |
| Dr. Kedarnath | Scientist (Plant Protection) | Chemical Residue Analysis | Centre of Excellence for Advanced Research on Animal Food Safety, Mumbai Veterinary College, Parel, Mumbai - 400 012, Maharashtra Animal & Fishery Sciences University, Nagpur (M.S.), INDIA | 04.05.2021 to 06.05.2021 |
| Dr. Kedarnath | Scientist (Plant Protection) | National Webinar on "Promise of Biological Control for Sustainable Pest Management” | Department of Entomology, Rajasthan College of Agriculture, MPUAT, Udaipur. | 17.05.2021 |
| Dr. Kedarnath | Scientist (Plant Protection) | Taking charge of your health and Indian spices: Medicinal properties and therapeutic potentialities | Centre of Research for development (CR4D) and Parul Institute of Applied Sciences, Parul University, Vadodara, Gujarat | 22.05.2021 |
| Dr. Kedarnath | Scientist (Plant Protection) | Gene Cloning: Advances and Applications in Veterinary Sciences | Centre of Excellence for Advanced Research on Animal Food Safety, Mumbai Veterinary College, Parel, Mumbai - 400 012 Maharashtra Animal & Fishery Sciences University, Nagpur (M.S.), INDIA | 31 st May to 4 th June, 2021 |
| June-2021 | | | | |

| | | | | |
|-----------------------|------------------------------|---|--|------------------------------------|
| Dr. Kedarnath | Scientist (Plant Protection) | Organic animal production | Maharana Pratap University of Agriculture and Technology, Udaipur (Rajasthan) | 01.06.2021 |
| Dr. Kedarnath | Scientist (Plant Protection) | "Safe Food Today for a Healthy Tomorrow" | Centre of Excellence for Advanced Research on Animal Food Safety, Mumbai Veterinary College, Parel, Mumbai - 400 012 Maharashtra Animal & Fishery Sciences University, Nagpur (M.S.), INDIA | 07 th June, 2021 |
| Dr. Kedarnath | Scientist (Plant Protection) | Increasing Farmers' Income: Way Forward | Maharana Pratap University of Agriculture and Technology, Udaipur (Rajasthan) | 18.06.2021 |
| Dr. Kedarnath | Scientist (Plant Protection) | Dairy farming | ICAR-National Dairy Research Institutes Karnal | 22.06.2021 |
| Dr. Chethan N | Scientist (Fisheies) | VFFS | UAHS Shivamogga | |
| JULY-2021 | | | | |
| Dr. Naveen Kumar B.T. | Scientist (Agronomy) | Virtual Session on Millets 2021 | Joint Director & Head – Agriculture, Food Processing & FMCG THE ASSOCIATED CHAMBERS OF COMMERCE AND INDUSTRY OF INDIA | 09.07.2021 |
| Dr. Naveen Kumar B.T. | Scientist (Agronomy) | Online workshop of All India Fodder Production Officers: Kharif | “ICAR-Indian Grassland and Fodder Research Institute Jhansi” | 3 days July 12-14, 2021 |
| Dr. Kedarnath | Scientist (Plant Protection) | Microbial technologies for sustainable agriculture and climate change mitigation | Directorate of research MPAUT Udaipur, Rajasthan | 07.07.2021 One day |
| Dr. Kedarnath | Scientist (Plant Protection) | Sustainable integrated cropping and farming system modules with special reference to banana | ICAR-NRC on Banana | 07.07.2021 One day (3.00 pm) |
| Dr. Kedarnath | Scientist (Plant Protection) | Zonal Workshop 2021 | ATARI, Bengaluru | July 2021 |
| Dr. Kedarnath | Scientist (Plant Protection) | Pesticides application techniques and safety measures | NIPHM Hyderabad | 12-16 July 2021 |
| Dr. Kedarnath | Scientist (Plant Protection) | Canopy architecture management in perennial commercial horticultural crops | College of Horticulture Bidar (UHS, Bagalkot) | 22.07.2021 |
| Dr. Chethan N | Scientist (Fisheies) | 21 days on Reorienting Extension Education and Advisory Services for Sustainable Development of Farming Community | SKUAST - Kashmir | July 2021 |
| Dr. Chethan N | Scientist (Fisheies) | Zonal Workshop 2021 | ATARI, Bengaluru | July 2021 |
| August-2021 | | | | |
| Dr. Kedarnath | Scientist (Plant Protection) | Interface with KVK Scientist for recent advances in farm mechanization and value addition in agriculture | ICAR_KVK Bhopal & ICAR-Central Institute of Agricultural Engineering Bhopal | 18.08.2021 |

| | | | | |
|----------------|------------------------------|--|--|------------------------------------|
| Dr. Kedarnath | Scientist (Plant Protection) | Foundation day celebrations and national webinar on Banana value chain and marketing New business horizons | ICAR-NRC Banana Tiruchirapalli | 21.08.2021 |
| Dr. Kedarnath | Scientist (Plant Protection) | Analysis of pesticide residues in food and agricultural commodities | NAHEP-CAAST AAUAnand | 27.08.2021 |
| Dr. Chethan N | Scientist (Fisheies) | 21 days on Reorienting Extension Education and Advisory Services for Sustainable Development of Farming Community | SKUAST - Kashmir | August-2021 |
| September-2021 | | | | |
| Dr. Chethan N | Scientist (Fisheies) | Prospects and Functioning of Commodity Markets in India | NAHEP-CAAST, Anand | 17-18 th September-2021 |
| Dr. Kedarnath | Scientist (Plant Protection) | Plant Health Management in Protected Cultivation | NIPHM Hyderabad | September-2021 |
| October-2021 | | | | |
| Dr. Kedarnath | Scientist (Plant Protection) | Advances in integrated pest management strategies for important crops of Karnataka, Kerala & Lakshadweep for ATARi zone XI | ICAR-NRC for IPM& ICAR-ATARI XI Bengaluru | 21st to 23rd October 2021 |
| November-2021 | | | | |
| Dr. Kedarnath | Scientist (Plant Protection) | Importance of Plant-Parasitic nematodes and their management in field and protected cultivation | ICAR-National Research Centre for integrated Pest Management, Pusa Campus, New Dehli | 26.11.2021 |
| December-2021 | | | | |
| Dr. Kedarnath | Scientist (Plant Protection) | “ICAR-IIHR Technologies for Dissemination through KVKs” | ATARI - Zone XI and ICAR-IIHR Bengaluru | 02 Day 17.12.2021 to 18.12.2021 |

19. Please include any other important and relevant information which has not been reflected above (write in detail).

5.B.3. Fisheries (2020-21)

| Type of Breed | Name of the technology demonstrated | Breed | No. of Demo | Units/ Area (m ²) | 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 | Composite Fish Culture of Catla, Rohu, Common Carp and <i>Pangassius sutchi</i> | Catla, Rohu, Common carp and <i>Pangassius sutchi</i> | 05 | 5000 sq.mtr. | Growth (kg) Yield (q/ha) and BCR | 44.66 | 35.32 | 39.44 | 31.50 | 25.18 | 297394 | 166694 | 2.28 | 218729 | 117329 | 2.16 |

| | Monoculture of Amur Common Carp in Farm Ponds | Amur Common Carp | 05 | 2500 sq.mtr. | Growth (kg) Yield (q/ha) and BCR | 41.22 | 38.56 | 40.17 | 31.71 | 26.68 | 401682 | 244132 | 2.55 | 237818 | 132568 | 2.26 |
|------------------------|--|------------------|----|-----------------|--|-------|-------|-------|-------|-------|--------|--------|------|--------|--------|------|
| Mussels | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | | | |
| Ornamental fishes | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | | | |
| 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

Sd/-

Senior Scientist and Head