ICAR-KRISHI VIGYAN KENDRA, MANDYA

ANNUAL REPORT- 2020

(FOR THE PERIOD FROM 01 January 2020 TO 31 December 2020)

University of Agricultural Sciences, Bangalore ICAR-Krishi Vigyan Kendra V.C.Farm, Mandya – 571405 email: kvkmandya@gmail.com, kvk.Mandya@icar.gov.in website: www.icarkvkmandya.com

PART I - GENERALINFORMATION ABOUT THE KVK

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

| KVK Address | Telephone | | E mail | Web Address |
|--|--------------|-----|---|-----------------------|
| | Office | Fax | | |
| ICAR - Krishi Vigyan Kendra, V.C.Farm Campus, Melukote Road Mandya – 571 405 | 08232-277456 | - | kvk.Mandya@icar.gov.in kvkmandya@gmail.com | www.icarkvkmandya.com |

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

| A ddmood | Telepl | none | E mail | Web Address |
|--|----------------|--------------|----------------------|-------------------------|
| Address | Office | Fax | | |
| University of Agricultural Sciences GKVK, Bangalore – 560 065 | 080 - 22330153 | 080-23516836 | vcuasb1964@gmail.com | www.uasbangalore.edu.in |

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

| Name | | Telephone / Contact | |
|-----------------|-----------|---------------------|--------------------|
| | Residence | Mobile | Email |
| Dr. N.T. Naresh | - | 9449864250 | nareshlt@gmail.com |

1.4. Year of sanction: 2004

1.5. Staff position as on 31 December 2020

| Sl. No. | Sanctioned post | Name of the incumbent | Designation | M/ F | Discipline | Highest Qualification (for PC, SMS and Prog. Asstt.) | Pay Scale | Basic pay | Date of joining KVK | Permanent / Temporary | Category (SC/ST/ OBC/ Others) |
|------------|-------------------------------------|--------------------------|------------------------------|---------|-----------------|--|----------------|--------------|---------------------------|--------------------------|-------------------------------------|
| 1 | Head/Senior Scientist | Dr. N.T. Naresh | Senior Scientist and Head | М | Agril.Extension | Ph.D | 79800-211150 | 95300 | 28.06.2019 | Permanent | OBC |
| 2 | Scientist/ SMS | Dr. Kamalabai Koodagi | Scientist | F | Home Science | Ph.D | 79800-211150 | 135300 | 28.02.2007 | Permanent | Others |
| 3 | Scientist/ SMS | Dr. Atheefa Munawery | Scientist | F | Soil Science | Ph.D | 57700 - 182400 | 61200 | 30.01.2018 | Permanent | Others |
| 4 | Scientist/ SMS | Dr.Roopashree, D.H | Scientist | F | Agronomy | Ph.D | 57700 - 182400 | 61200 | 20.02.2018 | Permanent | Others |
| 5 | Scientist/ SMS | Dr.Pavithra, S. | Scientist | F | Plant Pathology | Ph.D | 57700-182400 | 59400 | 24.07.2018 | Permanent | SC |
| 6 | Scientist/ SMS | Dr. Jaishankar HP | Scientist | Μ | Horticulture | Ph.D | - | 36000 | - | Temporary | Others |
| 7 | Scientist/ SMS | Dr. Prakash, B.K. | Scientist | Μ | Sericulture | Ph.D | - | 36000 | - | Temporary | SC |
| 8 | Programme Assistant (Lab Tech.) | Mr. Mahesha H.M. | Training Assistant | М | Sericulture | M.Sc. | 44900-142400 | 52000 | 04.11.10 | Permanent | SC |
| 9 | Programme Assistant (Computer) | Mrs. Saritha, N | Prog. Asst. (Computer) | F | - | M.A., Diploma in Computer | 44900-142400 | 47600 | 29.11.2020 | Permanent | OBC |

| 10 | Programme Assistant/ | Mrs. Apoorva K.B. | Farm Manager | F | Soil Science | M.Sc. | 44900-142400 | 52000 | 29.10.10 | Permanent | SC |
|----|----------------------|---------------------|----------------|---|--------------|-------|--------------|-------|------------|-----------|-----|
| | Farm Manager | | | | | | | | | | |
| 11 | Assistant | Mr. Yogesh, | Assistant | Μ | - | - | - | 21600 | - | Temporary | OBC |
| 12 | Jr. Stenographer | Mrs. Sowjanya Y.P | Typist cum | F | - | - | - | 19642 | | Temporary | OBC |
| | | | Computer | | | | | | | | |
| | | | Operator | | | | | | | | |
| 13 | Driver - 1 | Mr. Ananda | Tractor Driver | Μ | - | - | 30350-58250 | 36950 | 16.10.2008 | Permanent | OBC |
| 14 | Driver - 2 | Mr. V. Girisha | Driver (LV) | М | - | - | 21400-42000 | 24600 | 14.08.2012 | Permanent | OBC |
| 15 | SS-1 | Mr. Mahadevaiah, N. | Assistant cook | М | - | - | 10050 27000 | 24050 | 24.10.2017 | Permanent | SC |
| | | | cum care taker | | | | 19950-37900 | | | | |
| 16 | SS-2 | Mr. Sannaningaiah | Messenger | Μ | - | - | - | 12960 | - | Temporary | SC |

1.6. Total land with KVK (in ha): 20.21 ha

| S. No. | Item | Area (ha) |
|--------|---------------------------|-----------|
| 1 | Under Buildings | 0.20 |
| 2. | Under Demonstration Units | 1.00 |
| 3. | Under Crops | 6.48 |
| 4. | Orchard/Agro-forestry | 6.50 |
| 5. | Others | 6.03 |

1.7. Infrastructural Development:

A) Buildings

| | | Source of | Stage | | | | | | |
|-----|---------------------------------------|----------------------------|--------------------|-----------------------|-------------------|---------------|-----------------------|------------------------|--|
| S. | Name of building | funding | | Complete | | | Incomplete | | |
| No. | Name of building | | Completion Date | Plinth area (Sq.m) | Expenditure (Rs.) | Starting Date | Plinth area (Sq.m) | Status of construction | |
| 1. | Administrative Building | ICAR | June 2012 | 541.55 | 85,00,000 | - | - | Good Condition | |
| 2. | Farmers Hostel | UAS, Bangalore | - | 469.69 | | - | - | Good Condition | |
| 3. | Staff Quarters | - | - | - | - | - | - | - | |
| 4. | Demonstration Units | | | | | | | | |
| | 1. Azolla Unit | UAS, Bangalore | - | 50.0 | | - | - | - | |
| | 2. Vermi compost | UAS, Bangalore | - | 30.0 | | - | - | - | |
| | 3. Low cost Silk worm rearing Unit | UAS (B) under IFSD, GoK | 2014 | 25.0 | 1,25,000 | - | - | Good Condition | |
| 5 | Fencing | UAS, Bangalore | - | - | 3,10,000 | - | - | Good Condition | |
| 6 | Rain Water harvesting system | - | - | - | - | - | - | - | |
| 7 | Threshing floor | - | - | - | - | - | - | - | |
| 8 | Farm godown | IIPR, Khanpur | November 2018 | 200.0 | 25,00,000 | - | - | Good Condition | |
| 9 | Sheep and goat rearing unit | UAS, Bangalore | January 2021 | 2 gunts | 2,00,000 | | | Good Condition | |
| 10 | Poultry rearing unit | UAS, Bangalore | January 2021 | 2 gunts | 1,00,000 | | | Good Condition | |
| 11 | Shade net | UAS, Bangalore | January 2021 | 2 gunts | 2,00,000 | | | Good Condition | |

3

B) Vehicles

| Type of vehicle | Year of purchase | Cost (Rs.) | Total kms. Run | Present status |
|-----------------|------------------------|-------------|----------------|----------------|
| Tractor | 2001 – Ford | 3,60,000=00 | 5638 hours | Old |
| Power tiller | 2010 | 1,35,000=00 | Nil | Good |
| Jeep | 2017 – Mahindra Bolero | 8,00,000=00 | 26,067 | Good |
| Two wheeler | 2006-TVS Star city | 40,000=00 | 5296 | Good |
| Two wheeler | 2009- Honda Activa | 49,960=00 | 41,895 | Good |

C) Equipment & AV aids

| Name of the equipment | Year of purchase | Cost (Rs.) | Present status |
|---|------------------|-------------|-----------------|
| Personal computers | 2005 | - | Good Condition |
| ERNET | - | - | Not functioning |
| Motorised screen | 2008 | 25,875=00 | Good Condition |
| Printer | 2008 | 31,290=00 | Good Condition |
| KIOSKOS | 2008 | 1,24,569=00 | Not functioning |
| Personal computer | 2008 | 46,000=00 | Good Condition |
| Projector | 2008 | 44,900=00 | Good Condition |
| Laser printer | 2009 | 15,000=00 | Good Condition |
| Linea Lamination Machine with Printer & UPS | - | 5,99,500=00 | Good Condition |
| Digital conductivity meter | 2005 | 7,400=00 | Good Condition |
| Digital pH meter | 2005 | 8,550=00 | Good Condition |
| Physical balance | 2005 | 12,000=00 | Good Condition |
| Hot air oven | 2005 | 20,000=00 | Good Condition |
| Magnetic stirrer | 2005 | 5,500=00 | Good Condition |
| Top loading balance | 2005 | 48,900=00 | Good Condition |
| Rotary shaker | 2005 | 27,600=00 | Good Condition |
| Double glass distillation unit | 2005 | 48,850=00 | Good Condition |
| Macro block digestion system | 2005 | 52,118=00 | Good Condition |
| Automatic distillation system | 2005 | 85,232=00 | Good Condition |
| Acid neutralizer scrubber | 2005 | 23,909=00 | Good Condition |
| Spectrophotometer | 2005 | 42,000=00 | Good Condition |
| Flame photometer | 2005 | 35,200=00 | Good Condition |
| Micro oven | 2008 | 14,980=00 | Un Serviceable |
| Micro scope | 2008 | 66,555=00 | Good Condition |
| Refrigerator | 2005 | 30,750=00 | Good Condition |
| Refrigerator | 2008 | 30,750=00 | Good Condition |
| Digital micro pipettes-one set | 2008 | 21,180=00 | Good Condition |
| pH meter | 2008 | 6,600=00 | Good Condition |
| Laminar Air flow | 2009 | 44,900=00 | Good Condition |

| | | | 5 |
|---|------|-------------|-----------------|
| Auto clave | 2009 | 28,687=00 | Good Condition |
| Eliza reader | 2009 | 1,47,155=00 | Good Condition |
| Cultivator | 2008 | 22,596=00 | Good Condition |
| Disc- plough | 2009 | 46,154=00 | Good Condition |
| Power weeder | 2009 | 27,500=00 | Good Condition |
| Cage wheel | 2009 | 5,450=00 | Good Condition |
| Cage wheel | 2009 | 25,790=00 | Good Condition |
| Drum Seeder | 2009 | 2,750=00 | Good Condition |
| Cone weeder | 2009 | 1,250=00 | Good Condition |
| Rotary weeder | 2009 | 1,150=00 | Good Condition |
| Cycle type wheel weeder | 2009 | 1,250=00 | Good Condition |
| Over head projector | 2000 | 15,500=00 | Not functioning |
| LCD | 2007 | 49,323=00 | Good Condition |
| Video Camera | 2009 | 1,84,000=00 | Good Condition |
| Digital camera – Sony cyber shot | 2012 | 25,000=00 | Good Condition |
| Podium with Center Tabl | 2012 | 33,231=00 | Good Condition |
| EPABX system | 2012 | 50,000=00 | Good Condition |
| Kenstar Air cooler | 2012 | 4,400=00 | Good Condition |
| 3 Seat visitor Chair (2 No.) | 2012 | 23,100=00 | Good Condition |
| Peacock visitor Chair with arms (20 No.) | 2012 | 57,000=00 | Good Condition |
| Visitor Chair (30 No.) | 2012 | 85,500=00 | Good Condition |
| Visitor Chair (1 No.) | 2012 | 2,850=00 | Good Condition |
| Dias Table | 2012 | 8,360=00 | Good Condition |
| Dias Chair with wooden frame | 2012 | 15,400=00 | Good Condition |
| SMS Tables | 2012 | 32,340=00 | Good Condition |
| Conference Table | 2012 | 26,410=00 | Good Condition |
| Welcome Board | 2012 | 4,800=00 | Good Condition |
| Hand operated Cocoon Deflossing machine | 2012 | 33,188=00 | Good Condition |
| LPG stove | 2012 | 1,447=00 | Good Condition |
| Executive Office table | 2012 | 31,350=00 | Good Condition |
| Executive high back with leather seat (1 No.) | 2012 | 11,150=00 | Good Condition |
| Executive visitor Chair with arms & leather seat (4 Nos.) | 2012 | 20,352=00 | Good Condition |
| Sofa Set | 2012 | 18,700=00 | Good Condition |
| Web Camera | 2013 | 948=00 | Good Condition |
| Paddy drum seeder | 2013 | 4,800=00 | Good Condition |
| Mixer | 2013 | 3,000=00 | Good Condition |
| Display boards (19 Nos.) | 2013 | 26,208=00 | Good Condition |
| White Writing Board | 2013 | 1,500=00 | Good Condition |
| Iron Magazine stand | 2014 | 3,800=00 | Good Condition |
| Iron Rack | 2014 | 2,100=00 | Good Condition |
| Iron Board | 2014 | 8,925=00 | Good Condition |
| D'Link Wifi Router | 2016 | 2,500=00 | Good Condition |

| | | | 6 |
|--|------|-------------|----------------|
| Xerox Machine | 2016 | 89,641=00 | Good Condition |
| Display Showcase with pre laminated | 2016 | 27,000=00 | Good Condition |
| Digital Weighing Machine | 2016 | 3,900=00 | Good Condition |
| Coconut Tree Climber | 2016 | 3,100=00 | Good Condition |
| Hard Disk | 2016 | 5,200=00 | Good Condition |
| White writing Board (7 Nos.) | 2016 | 3150=00 | Good Condition |
| Steel Almirhas (3 Nos.) | 2016 | 36,068=00 | Good Condition |
| Book Case (Steel) | 2016 | 7,500=00 | Good Condition |
| Filing Cabinet (Steel) (2 No.) | 2016 | 21,000=00 | Good Condition |
| Magazine Rack | 2016 | 12,489=00 | Good Condition |
| Personal Weighing balance | 2016 | 1,250=00 | Good Condition |
| Hp Desktop system (2 Nos.) | 2016 | 31,000=00 | Good Condition |
| Speakers (2 Nos.) | 2016 | 1,000=00 | Good Condition |
| Head phone (2 Nos.) | 2016 | 840=00 | Good Condition |
| Deltron Stabilizer | 2016 | 1,397=00 | Good Condition |
| Electronic Balance | 2016 | 19,923=00 | Good Condition |
| CCTV Camera and accessories | 2016 | 19,495=00 | Good Condition |
| LAN and Accessories | 2016 | 31,486=00 | Good Condition |
| Amplifier | 2017 | 23,615=00 | Good Condition |
| Hp Laptop | 2017 | 36,500=00 | Good Condition |
| Epson Color printer | 2017 | 10,800=00 | Good Condition |
| UPS and Batteries with batteries (4 No.) | 2017 | 51,985=00 | Good Condition |
| Water Purifier (RO Grand + 12 L storage) | 2017 | 16,511=00 | Good Condition |
| Sony 32" LED TV | 2017 | 31,000=00 | Good Condition |
| Hard Disk (1 TB) | 2017 | 4,500=00 | Good Condition |
| Vertical autoclave | 2020 | 1,64,000=00 | Good Condition |

| Date | Number of Participants | Salient Recommendations | Action taken | Remarks, if any |
|------------|---------------------------|--|---|--------------------|
| 23.02.2021 | 45 | Converge the activities of line departments in adopted village for effective implementation. | Conducted animal health campaign with the help of veterinary department. Fifty seven animals were treated during the programme. Tree planting campaign was conducted on 05.06.2020 with the help of Forestry department. Two trainings on horticulture crops for fifty farmers were conducted along with department of Horticulture | - |
| | | Conduct demonstrations and training on tomato pin worm, integrated crop management and intercropping in coconut. | Demonstrations on pinworm management in tomato were conducted at Juttanahalli village. Two on campus and one off campus trainings were conducted and fifty nine farmers were benefited by the training. Twice messages regarding pinworm management were sent to 45530 farmers via mKisan portal. Inter cropping of French bean var. Arka Arjun in coconut garden will be taken in the month of March- 2021. | - |
| | | Create awareness to farmers on field problems observed during field visits of the district through SMS | Forty two short massages regarding different crops were sent to 47250 farmers via mKisan portal. | - |
| | | Conduct trainings on control measures of Rugose white fly in Coconut to the farmers of the district. | Three off campus training (29.07.2020, 05.08.2020 & 25.09.2020) to ninety five farmers and one on campus training (14.10.2020) to thirty farmers were conducted on ICM in coconut. Conducted off campus training on ICM in coconut on 27.01.2021 to hundred and ten farmers along with department of Horticulture, Maddur. One off campus training on 29.09.2020 was conducted to FPO members of Maddur taluk. Twice messages regarding rugose white fly management in coconut were sent to 45530 farmers via mKisan portal. | - |

1.8. Details of SAC meeting conducted during 2021

| | | 8 |
|---|---|---|
| Conduct trainings and demonstrations on Bivoltine silkworm rearing practices, Tree mulberry plantation and control of leaf roller outbreak. | • Conducted training program on "Popularization of improved bi-voltine silkworm hybrid and tree mulberry plantation at Mallanayakanakatte, KVK, Madegowdanakoppalu and H.Kodihalli to 117 farmers on 19.09.2020, 09.10.2020 and 18.01.2021. | - |
| | • Conducted training programme (Off and On campus) on "Management of leaf roller in mulberry" at KVK, Madegowdanakoppalu, Thippapura, Chottanahalli and Marilinganadoddi to 113 farmers on 02.09.2020, 18.09.2020, 18.11.2020, 28.01.2021 and 06.02.2021 and also 2 times SMS sent through mKisan portal. | |
| Organize trainings to farmers on improved fodder crops for dairy farming. | One on campus training on improved cultivation of fodder crops was conducted on 15.09.2020 and 25 farmers were benefited. Ten demonstrations of COFS-29 multi cut sorghum was conducted in Mallanayakanakatte and Hullenahalli village. | - |
| Activities under Paramparagath Krishi Vikas Yojana (PKVY) has to be taken up on selected farmers by motivating them for organic farming and complete the program successfully. | The activities of PKVY were conducted in Sollepura village of Maddur taluk. The farmers were selected and trained on different subject regarding organic farming. Method demonstrations on use of pheromone traps in coconut, bordeaux mixture preparation for controlling diseases in different crops, compost and vermin compost preparation were taken. To improve the soil fertility the inputs like neem cake, dahincha, sesbania seedlings were provided to farmers. Demonstration on indigenous paddy variety sidda sanna in 10 ha. and drumstick were taken. Few farmers have also under taken banana and sugarcane cultivation under organic farming and have been motivated to prepare chemical free jaggery. | - |

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 | Paddy-Paddy |
| 2 | Mulberry-Mulberry |
| 3 | Paddy- Sugarcane |
| 4 | Sugarcane-Sugarcane |
| 5 | Sugarcane-Paddy |
| 6 | Ragi-Ragi |
| 7 | Ragi-Legume-Ragi |
| 8 | Vegetables-Ragi |
| 9 | Vegetables-Vegetables |

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

| S. No | Agro-climatic Zone | Characteristics |
|-------|---------------------------------------|--|
| 1. | Zone-6 (Karnataka)- Southern dry zone | Average rainfall-670.6-888.6 mm per annum |
| | | Elevation in m- 800-900 m in major areas an 450-800 in remaining area |
| | | Soil type- Red sandy loam in major area and small packets of red loam and black soil |
| | | Water source- Cauvery command area (46% of cultivable land) |
| | | Rainfed (54% of cultivable land) |

| S. No | Agro ecological situation | Characteristics | | |
|-------|------------------------------|--|--|--|
| 1. | Agro-ecological sub region-4 | Hot moist, semi arid ecological sub division with length of growing period of 150-180 days | | |

2.3 Soil type/s

| S. No | Soil type | Characteristics | Area in ha |
|-------|--------------------|---|------------|
| 1. | Red sandy loam | Colour- Red | 71-73 |
| | | Texture: Sandy loam | |
| | | Soil reaction: Acidic- Neutral (Rainfed), | |
| | | Neutral- Alkaline (Irrigated) | |
| | | Organic carbon: Low – Medium | |
| 2. | Black soil | Colour- Black | 18-20 |
| | | Texture: Clay loam | |
| | | Soil reaction: Neutral – Alkaline | |
| | | Organic carbon: Low – Medium | |
| 3. | Shallow sandy loam | Colour- Red | 9-10 |
| | | Texture: sandy loam | |
| | | Soil reaction: Neutral – Alkaline | |
| | | Organic carbon: Low – Medium | |

| S. No | Сгор | Area (ha) | Production (Metric tons) | Productivity (kg /ha) | |
|-------|----------------------|-----------|---------------------------------|-----------------------|--|
| 1. | Paddy | 89285 | 255290 | 3046 | |
| 2. | Ragi | 79670 | 109004 | 1504 | |
| 3. | Sericulture (cocoon) | 17400 | 12600 | 500 | |
| 4. | Jowar | 226 | 462 | 245 | |
| 5. | Maize | 5938 | 7859 | 4572 | |
| 6. | Groundnut | 1729 | 8234 | 854 | |
| 7. | Niger | 1236 | 283 | 220 | |
| 8. | Sesamum | 1342 | 738 | 550 | |
| 9. | Castor | 1500 | 1425 | 950 | |
| 10. | Other oil seeds | 9867 | _ | - | |
| 11. | Horse gram | 9648 | 5634 | 496 | |
| 12. | Cowpea | 4237 | 1980 | 440 | |
| 13. | Green gram | 400 | 150 | 375 | |
| 14. | Black gram | 400 | 176 | 440 | |
| 15. | Other pulses | 27933 | _ | - | |
| 16. | Sugarcane | 39845 | 1558620 | 42358 | |
| 17. | Fruits | 16381 | 334154 | 20400 | |
| 18. | Vegetables | 16047 | 355044 | 22130 | |
| 19. | Flowers | 1619 | 12731 | 7860 | |

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

* Dept. of Agriculture and Horticulture, Mandya District

2.5. Weather data

| Month | Rainfall (mm) | Temperature ⁰ C | | Relative Humidity (%) |
|----------------|---------------|----------------------------|---------|------------------------------|
| | | Maximum | Minimum | |
| January 2020 | 9.1 | 30.1 | 18.3 | 90 |
| February 2020 | 0 | 31.4 | 17.6 | 83 |
| March 2020 | 0 | 33.3 | 20.2 | 86 |
| April 2020 | 78.2 | 34.0 | 21.0 | 91 |
| May 2020 | 179.6 | 33.0 | 21.0 | 92 |
| June 2020 | 58.4 | 29.0 | 19.0 | 91 |
| July 2020 | 99.5 | 29.0 | 19.0 | 95 |
| August 2020 | 67.1 | 29.2 | 19.3 | 89 |
| September 2020 | 149.2 | 30.9 | 19.0 | 90 |
| October 2020 | 222.5 | 31.4 | 18.8 | 92 |
| November 2020 | 59 | 31.1 | 18.0 | 90 |
| December 2020 | 9.2 | 28.0 | 17.2 | 91 |

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

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

| Category | Population | Production | Productivity |
|-------------------|------------------|-------------|--------------|
| Cattle | | | |
| Crossbred | 352000 | 170 (milk) | - |
| Indigenous | | | |
| Buffalo | 168345 71 (milk) | | - |
| Sheep | | | |
| Crossbred | 383395 | 2632 (meat) | - |
| Indigenous | | | |
| Goats | 244294 | 2598 (meat) | - |
| Pigs | 6875 | - | - |
| Crossbred | - | - | - |
| Indigenous | - | - | - |
| Rabbits | - | - | - |
| Poultry | | | |
| Hens | 530150 | - | - |
| Desi | - | - | - |
| Improved | - | - | - |
| Ducks | - | - | - |
| Turkey and others | - | - | - |
| Fish | - | - | - |
| Marine | - | - | - |
| Inland | - | - | - |
| Prawn | - | - | - |
| Scampi | - | - | - |
| Shrimp | - | - | - |

* Source: Department of Animal Husbandry and Veterinary Services, Mandya, Karnataka

2.7 District profile maintained in the KVK has been Updated for 2020: Yes

2.8 Details of Operational area / Villages

| SI. 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. | Mandya | Dudda | Hullenahalli, | 2 | Paddy, Ragi, Sericulture & vegetables | Pest & Disease management, lack of awareness improved varieties / hybrids | ICM practices & Integrated Pest and Disease management |
| 2. | Maddur | C.A. Kere | Yadaganahalli, Nellur | 2 | Paddy, Ragi, Sericulture | Pest & Disease management, lack of awareness on farm mechanization | ICM practices & Integrated Pest and Disease management |
| 3. | Malavalli | Kasaba | Nelamaka`nahalli | 2 | Paddy, Maize, Ragi Vegetables & Sericulture | Pest & Disease management, lack of awareness on improved varieties | Demonstration of improved varieties |
| 4. | Nagamangala | Kasaba | Brahmadevarahalli | 2 | Vegetables | Pest and disease management, Imbalance nutrient application, indiscriminate use of PP chemicals | Integrated Crop Management, Nutrient Management, improved varieties of vegetables |
| 5. | Pandavapura | Melukote | Jakkanahalli | 1 | Vegetables Pest & disease management, non use of improved varieties | | Integrated Pest and Disease management, use of improved varieties |

| Sl. No. | Taluk | Name of the block | Name of the village | Name of the Head of Household | Annual Gross Income (Rs.) | Annual Expenditure (Rs.) | Annual Net Income (Rs.) |
|------------|-------------|-------------------|------------------------|-------------------------------------|------------------------------|-----------------------------|-------------------------|
| 1. | Malavalli | Malavalli | Nellor | Channegowda | 88000 | 71000 | 17000 |
| 2. | Mandya | Dudda | Thippapura | Manjegowda | 365000 | 240000 | 125000 |
| 3. | Mandya | Dudda | Chikka gangawadi | Boregowda | 448000 | 202000 | 246000 |
| 4. | Mandya | Dudda | Chikka gangawadi | Jagadish | 444000 | 222000 | 222000 |
| 5. | Mandya | Dudda | Chikka gangawadi | Kumara | 438000 | 240000 | 198000 |
| 6. | Mandya | Dudda | Chikka gangawadi | Ramegowda | 642000 | 277200 | 364800 |
| 7. | Malavalli | Kasaba | Nelamakanahalli | Surendra | 360000 | 181200 | 178800 |
| 8. | Malavalli | Kasaba | Nelamakanahalli | Nagaraju | 252000 | 204000 | 48000 |
| 9. | Malavalli | Kasaba | Nelamakanahalli | Siddaraju | 192000 | 156000 | 36000 |
| 10. | Malavalli | Kasaba | Nelamakanahalli | Lakshman | 324000 | 281400 | 42600 |
| 11. | Nagamangala | Kasaba | Brahmadevarahalli | Manjunath | 250000 | 190000 | 60000 |
| 12. | Nagamangala | Kasaba | Hurulinganahalli | Darshan, K.M. | 780000 | 720000 | 60000 |
| 13. | Nagamangala | Kasaba | Brahmedevarahalli | Vinod | 1584000 | 1232000 | 352000 |
| 14. | Nagamangala | Kasaba | Brahmedevarahalli | Jagadeesh | 300000 | 182000 | 118000 |

2.8 Details of Benchmark Information collected from DFI villages

2.10 Priority thrust areas

| S. No | Thrust area | | |
|-------|--|--|--|
| 1. | Water saving technologies / farm equipments | | |
| 2. | High yielding varieties / hybrids in mulberry, silkworm rearing | | |
| 3. | Problematic soil and their management | | |
| 4. | Improved cultivation practices for Vegetables and silkworm rearing practices | | |
| 5. | Nutrient management in vegetables and mulberry | | |
| 6. | Insects and Disease management in paddy, pulses and Silkworm rearing | | |
| 7. | Value addition to millets | | |

PART III - TECHNICAL ACHIEVEMENTS (2020)

3.A. Target and Achievements of mandatory activities

| OFT | | | | FLD | | | |
|--------|--------------------------|--------------------|------------|--------|-------------|------------|-------------|
| | 1 | | 2 | | | | |
| (| OFTs (No.) Farmers (No.) | | FLDs (No.) | | Farı | ners (No.) | |
| Target | Achievement | Target Achievement | | Target | Achievement | Target | Achievement |
| 4 | 4 | 12 | 12 | 18 | 17 | 140+1SHG | 130+1 SHG |

| | Tra | ining | | | Extension I | Programmes | | |
|--------|--------------|--------|----------------|---|-------------|-------------|-------------|--|
| | | 3 | | | | 4 | | |
| C | ourses (No.) | Part | icipants (No.) | 4 Programmes (No.) Participants (No.) | | | | |
| Target | Achievement | Target | Achievement | Target | Achievement | Target | Achievement | |
| 25 | 25 | 600 | 778 | 1300 | 1850 | 10300 12220 | | |

| Seed Proc | luction (Q) | Planting ma | iterial (Nos.) |
|-----------|-------------|-------------|----------------|
| | 5 | | 6 |
| Target | Achievement | Target | Achievement |
| 100.0 | 206.5 | 2000 | 35261 |

| Livestock, poultry strai | ns and fingerlings (No.) | Bio-prod | ucts (Kg) |
|--------------------------|--------------------------|----------|-------------|
| | - | | 8 |
| Target | Achievement | Target | Achievement |
| - | - | 500 | 896 |

3.B1. Abstract of interventions undertaken

| | | | | | | | Int | terventions | | | | | | |
|----------|--------------------|----------------------|--|---|---------------------|------------------------------------|-----------------------------------|---|----------------------------------|------------------------------|---|------------------------------------|-----|-------------------|
| S. No | Thrust area | Crop/ Enterprise | Identified Problem | 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.) | pro | y of bio ducts |
| | | | | | | | | | | | | | No. | Kg |
| 1. | Cropping system | Paddy | Shortage of water for irrigation, Mono cropping, high cost of cultivation | Assessment of crops for paddy cropping system | - | - | - | - | - | 0.11 | - | - | - | - |
| 2. | Compost culture | Sericulture waste | Unscientific disposal of Sericulture wastes, Environmental contamination, Lack of Knowledge on better utilization of sericulture wastes | Assessment of different compost cultures in composting of sericulture wastes | - | - | - | - | - | - | - | - | 3 | 15 |
| 3. | Pest management | Ridge gourd | Severe incidence of YMV (> 31%) | Assessment on management of mosaic virus in ridge gourd through integrated approach | - | - | - | - | - | - | - | - | 3 | 150 |
| 4. | - | Silkworm rearing | Severe infestation of uzifly during rainy and winter, more defective cocoon leads to low cocoon price | Assessment on management of uzifly in silkworm rearing | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | | | | 16 |
|----------|-------------|---------------------|---|---------------------|---|------------------------------------|-----------------------------------|---|----------------------------------|---------------------------------|---|------------------------------------|-----|-------------------|
| | | | | | | 1 | In | terventions | 1 | | I | I | | |
| S. No | Thrust area | Crop/ Enterprise | Identified Problem | 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.) | pro | y of bio ducts |
| _ | | | | | | | | | | | | | No. | Kg |
| 5. | - | Paddy | Low yield and quality, lack of awareness on micro nutrient application, Boron deficiency in soil | - | Nutrient management in paddy for yield enhancement under salt affected soils | 1 | - | - | 2 | 2.5 paddy 2.5 Dhaincha | - | - | - | - |
| 6. | - | Paddy | Incidence of blast (65- 70%), sheath blight (32%), BPH (28%) and stem borer in paddy, Indiscriminate use of N fertilizers and Low yield & poor quality | - | Integrated pest and disease management in paddy | 2 | 2 | - | 8 | - | - | - | 50 | - |
| 7. | - | Maize | Lack of knowledge on pest and disease management | - | Integrated crop management in maize | 1 | - | - | 2 | 0.6 | - | - | - | 4 |
| 8. | - | Finger millet | Low yield , Lack of short duration varieties, Low income | - | Demonstration of short duration ragi variety KMR- 630 | 1 | - | - | 2 | 0.5 | - | - | - | 2 |
| 9. | - | Capsicum | Improper nutrient schedule, and pest and disease management | - | Integrated crop management for capsicum production | - | - | - | 1 | - | - | - | 10 | 60 |
| 10. | - | Papaya | Improper | - | Integrated | - | - | - | 4 | - | - | - | 5 | 45 |

| | | | | | | | | | | | | | | 17 |
|----------|-------------|---------------------|---|---------------------|---|------------------------------------|--|--|----------------------------------|------------------------------|------------------------------------|---------------------------|--------------|---------------------|
| S. No | Thrust area | Crop/ Enterprise | Identified Problem | Title of OFT if any | Title of FLD if any | Number of Training (farmers) | Int Number of Training (Youths) | terventions Number of Training (extension | Extension activities (No.) | Supply of seeds (Qtl.) | Supply of planting materials | Supply of livestock | Suppl pro | ly of bio oducts |
| | | | | | | (fur mers) | (Toutins) | personnel) | (1.00) | (Qui) | (No.) | (No.) | No. | Kg |
| | | | nutrient schedule, lack of awareness on use of micronutrients | | nutrient management in papaya | | | | | | | | NO. | Kg |
| 11. | - | Tomato | Severe pest and disease incidence, indiscriminate use of PP chemicals | - | Demonstration of tomato Hyb. Arka Abhed | 1 | - | - | 10 | 0.01 | - | - | 5 | 30 |
| 12. | - | Cabbage | DBM (>42%) infestation, Poor quality head, Black rot, Poor nutrient management | - | Integrated crop management in cabbage | 1 | - | - | 4 | - | - | - | 5 | 10 |
| 13. | - | French bean | Mono- cropping, no appropriate use of space | - | Intercropping of French bean in coconut garden | - | - | - | - | - | - | - | - | - |
| 14. | - | Bhendi | Higher incidence of Bhendi yellow vein Mosaic, Low yield | - | Integrated crop management in bhendi | 1 | - | - | 1 | 0.15 | - | - | - | 40 |
| 15. | - | Betel vine | Lack of knowledge on bio-agents and ICM practices | - | Integrated crop management in betel vine | - | - | - | 3 | - | - | - | - | 65 |
| 16. | - | Banana | Improper nutrient management, Lack of knowledge on bio-agents and ICM practices | - | Integrated crop management in banana | 1 | - | - | 5 | - | - | - | - | 65 |

| | | | | | | | | | | | | | | 18 |
|----------|-------------|---------------------|---|---------------------|--|------------------------------------|-----------------------------------|--------------------------------------|----------------------------------|------------------------------|--------------------------------|--------------------------|-----|-------------------|
| 6 | | | T1 (*@* 1 | | | | | terventions Number of | | | Supply of | Supply | | |
| S. No | Thrust area | Crop/ Enterprise | Identified Problem | Title of OFT if any | Title of FLD if any | Number of Training (farmers) | Number of Training (Youths) | Training (extension personnel) | Extension activities (No.) | Supply of seeds (Qtl.) | planting materials (No.) | of livestock (No.) | pro | y of bio ducts |
| 17. | - | Fodder | Low yield, | _ | Demonstration | 1 | _ | | 2 | 0.2 | _ | - | No. | Kg |
| | | | Lack of awareness of High yielding multicut sorghum variety | | of high yielding multicut sorghum CoFS- 29 | | | | | | | | | |
| 18. | - | Sericulture | Lack of awareness on Improved hybrids | - | Popularization of improved silkworm hybrid FC-1 x FC-2 | 2 | - | - | 5 | 100 DFLs | - | - | - | - |
| 19 | | Silkworm | Uneven maturation, Wastage of Mulberry leaf | | Demonstration of phyto ecdysteroid for synchronized maturation of | 2 | - | - | 6 | - | - | - | - | - |
| 20 | | Mulberry | | | Integrated nutrient management in mulberry | 2 | - | - | 5 | - | - | - | - | - |
| 21 | | Mulberry | | | Intercrops in wider spaced mulberry garden | 2 | - | - | 4 | 0.5 | - | - | - | - |
| 22 | | Foxtail millet | Low income realization due to lack of knowledge on processing, value addition, labeling, packaging and branding | | Microenterprise in foxtail millet for economic empowerment of foxtail growers (EDP) | 2 | - | - | 4 | - | - | - | - | - |

3.B2. Details of technology used during reporting period

| S. | 70°41 - 670 - 1 - 1 | Source of | | | | No.of programmes | conducted |
|----|--|-------------------------|------------------|-----|-------|------------------|------------------|
| No | Title of Technology | technology | Crop/enterprise | OFT | FLD | Training | Others (Specify) |
| 1 | 2 | 3 TNAU | 4 Paddy | 5 | 6 | 7 | 8 |
| 1 | Assessment of crops for paddy cropping system | | - | 3 | | | |
| 2 | Assessment of different compost cultures in composting of sericulture wastes | NCOF, Ghaziabad | Waste recycling | 3 | - | | |
| 3 | Assessment on management of mosaic virus in ridge gourd through integrated approach | IIVR, Varanasi | Ridgegourd | 3 | - | | |
| 4 | Assessment on management of uzifly in silkworm rearing | CSRTI, Mysuru | Sericulture | 3 | - | | |
| 5 | Nutrient management in paddy for yield enhancement under salt affected soils | UAS-B | Paddy | - | 10 | 1 | |
| 6 | Integrated pest and disease management in paddy | UAS-B | Paddy | - | 10 | 2 | |
| 7 | Integrated crop management in maize | UAS-B | Maize | - | 10 | 1 | |
| 8 | Demonstration of short duration ragi variety KMR-630 | UAS-B | Finger millet | - | 10 | 1 | |
| 9 | Integrated crop management for capsicum production | IIHR, B'lore | Capsicum | - | 10 | 2 | |
| 10 | Integrated nutrient management in papaya | IIHR, B'lore | papaya | - | 05 | 1 | |
| 11 | Demonstration of tomato Hyb. Arka Abhed | IIHR, B'lore | tomato | - | 05 | 2 | |
| 12 | Integrated crop management in cabbage | IIVR, Varanasi | cabbage | - | 05 | 1 | |
| 13 | Intercropping of French bean in coconut garden | IIHR, B'lore & UAS-B | French bean | - | 05 | | |
| 14 | Integrated crop management in bhendi | IIHR, B'lore | bhendi | - | 10 | 1 | |
| 15 | Integrated crop management in betel vine | UAS-B | betel vine | - | 05 | 1 | |
| 16 | Integrated crop management in banana | IIHR, B'lore & UAS-B | banana | - | 05 | 1 | |
| 17 | Demonstration of high yielding multicut sorghum CoFS-29 | UAS-B | sorghum | - | 10 | 1 | |
| 18 | Popularization of improved silkworm hybrid FC-1 x FC-2 | CSRTI, Mysuru | Silkworm rearing | - | 05 | 1 | |
| 19 | Demonstration of phyto ecdysteroid for synchronized maturation of silkworms | CSRTI, Mysuru | Silkworm rearing | - | 10 | 1 | |
| 20 | Integrated nutrient management in mulberry | CSRTI, Mysuru | Mulberry | | 10 | 1 | |
| 21 | Intercrops in wider spaced mulberry garden | CSRTI, Mysuru | Mulberry | | 10 | 1 | |
| 22 | Microenterprise in foxtail millet for economic empowerment of foxtail growers (EDP) | UAS-B | Foxtail millet | | 1 SHG | 3 | |

3.B2 contd..

| | | | | | | ľ | No. of farm | ers covered | | | | | | | |
|---|-----------------------------------|----|----|----|----|----|-------------|-------------|-----|-------|----|------|------|------|-----|
| | OFT FLD Training Others (Specify) | | | | | | | | | | | | | | |
| General SC/ST General SC/ST General SC/ST | | | | | | | | /ST | Ger | ieral | SC | :/ST | | | |
| Μ | F | М | F | M | F | М | F | Μ | F | M | F | Μ | F | M | F |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 8 | 2 | 1 | 1 | 96 | 24 | 16 | 4 | 856 | 255 | 302 | 56 | 3993 | 1452 | 3007 | 196 |

PART IV - On Farm Trial (2020)

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 | | | | | 1 | | | | | 1 |
| Management | | | | | | | | | | |
| Integrated Crop | | | | | | | | | | |
| Management | | | | | | | | | | |
| Integrated Disease | | | | 1 | | | | | | 1 |
| 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 | | | | | | | | | | |
| Waste management | | | | 1 | | | | | | 1 |
| Total | 1 | | | 2 | 1 | | | | | 4 |

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

| Thematic areas | Cereals | Oilseeds | Pulses | Commercial Crops | Vegetables | Fruits | Flower | Plantation crops | Tuber Crops | TOTAL |
|---------------------|---------|----------|--------|---------------------|------------|--------|--------|---------------------|----------------|-------|
| Integrated Nutrient | | | | | | | | | | |
| Management | | | | | | | | | | |
| Varietal Evaluation | | | | | | | | | | |
| Integrated Pest | | | | | | | | | | |
| Management | | | | | | | | | | |
| Integrated Crop | | | | | | | | | | |
| Management | | | | | | | | | | |
| Integrated Disease | | | | | | | | | | |
| Management | | | | | | | | | | |
| Small Scale Income | | | | | | | | | | |
| Generation | | | | | | | | | | |
| Enterprises | | | | | | | | | | |

| Weed Management | | | | | |
|--------------------|--|--|--|--|--|
| Resource | | | | | |
| Conservation | | | | | |
| Technology | | | | | |
| Farm Machineries | | | | | |
| Integrated Farming | | | | | |
| System | | | | | |
| Seed / Plant | | | | | |
| production | | | | | |
| Value addition | | | | | |
| Drudgery | | | | | |
| Reduction | | | | | |
| Storage Technique | | | | | |
| Mushroom | | | | | |
| cultivation | | | | | |
| Total | | | | | |

4.A3. Abstract on the number of technologies assessed in respect of livestock enterprises : 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 | | | | | | |
| TOTAL | | | | | | |

4.A4. Abstract on the number of technologies refined in respect of livestock enterprises : 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 | | | | | | |
| TOTAL | | | | | | |

4.B. Achievements on technologies Assessed and Refined

4.B.1. Technologies Assessed under various Crops

| Thematic areas | Сгор | Name of the technology assessed | No. of triak | of | Area in ha (Per trial covering all Technological Options in a farm) |
|---|------------|---|--------------|----|---|
| Integrated Nutrient Management | | | | | |
| Varietal Evaluation | | | | | |
| Integrated Pest Management | | | | | |
| Integrated Crop Management | Pulses | Assessment of crops for paddy cropping system | 3 | 3 | 0.6 |
| Integrated Disease Management | | Assessment on management of mosaic virus in ridge gourd through integrated approach | 3 | 3 | 0.6 |
| Small Scale Income Generation Enterprises | | Assessment on management of uzifly in silkworm rearing | 3 | 3 | - |
| Weed Management | | | | | |
| Resource Conservation Technology | | | | | |
| Farm Machineries | | | | | |
| Integrated Farming System | | | | | |
| Seed / Plant production | | | | | |
| Value addition | | | | | |
| Drudgery Reduction | | | | | |
| Storage Technique | | | | | |
| Mushroom cultivation | | | | | |
| Waste management | Composting | Assessment of different compost cultures in Composting of Sericulture waste | 3 | 3 | - |
| Total | | | 9 | 9 | 1.2 |

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

| Thematic areas | Сгор | Name of the technology assessed | No. of trials | Number of farmers 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.3. Technologies assessed under Livestock and other enterprises: Nil

| Thematic areas | Name of the livestock enterprise | Name of the technology assessed | No. of trials | No. of farmers | | |
|---|-------------------------------------|------------------------------------|---------------|----------------|--|--|
| Evaluation of breeds | | | | | | |
| Nutrition management | | | | | | |
| Disease management | | | | | | |
| Value addition | | | | | | |
| Production and management | | | | | | |
| Feed and fodder | | | | | | |
| Small scale income generating enterprises | | | | | | |
| Total | | | | | | |

4.B.4. Technologies Refined under Livestock and other enterprises: Nil

| Thematic areas | Name of the livestock enterprise | Name of the technology assessed | No. of trials | No. of farmers | | |
|---|-------------------------------------|------------------------------------|---------------|----------------|--|--|
| Evaluation of breeds | | | | | | |
| Nutrition management | | | | | | |
| Disease management | | | | | | |
| Value addition | | | | | | |
| Production and management | | | | | | |
| Feed and fodder | | | | | | |
| Small scale income generating enterprises | | | | | | |
| Total | | | | | | |

4.C1.Results of Technologies Assessed

OFT-1:

| 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 | |
| | | Shortage of water for irrigation, | Assessment of crops for | 3 | T.O.1 (Farmers practice): Paddy – Cowpea | Farmers practice/ UAS (B) | ce/ UAS Ongoing | | | | | | |
| Paddy | Irrigated | Mono cropping, high | paddy cropping | | T.O.2: Paddy – Sesamum | UAS (D) | | | | | | | |
| | | cost of cultivation | system | | T.O.3: Paddy – Black gram | TNAU | | | | | | | |

1. Title of Technology Assessed : Assessment of crops for paddy cropping system

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

| OFT-2: | |
|---------------|--|
|---------------|--|

| 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 | | 0 | 11 | 12 | 13 |
| | | | | | | | | | Total carbon | pH | | | |
| Compost culture | | Unscientific disposal of Sericulture wastes, | Assessment of different compost cultures in | 3 | T.O.1 (Farmers practice): Seri farm waste + cow dung slurry | FP | 7.85 | quintals | 33.03% | 7.74 | 2220 | 1970 | 8.88 |
| | environmental contamination, lack of knowledge on better utilization of sericulture wastes | contamination, lack of knowledge on | nination, of sericulture f wastes | T.O.2: Seri farm waste + cow dung slurry + Microbial | waste + cow dung | UAS, Bangalore | 8.20 | quintals | 27.46% | 7.71 | 6108 | 5448 | 9.25 |
| | | better utilization of sericulture | T.O.3: waste + phosph | T.O.3: Seri farm waste + Rock phosphate + Microbial culture | CSRTI, Mysore | 8.50 | quintals | 26.43% | 7.42 | 6600 | 5640 | 6.87 | |
| | | | | | T.O.4: Seri farm waste + Waste decomposer (2 Kg Jaggery in 200 L water + waste decomposer) To4 N1: 20ltrs waste decomposer solution | NCOF, Ghaziabad | 8.00 | quintals | 32.23 | 7.75 | 3434 | 2999 | 7.89 |
| | | | | | To4N2: 50ltrs waste decomposer solution | - | 8.60 | quintals | 31.76 | 7.67 | 6608 | 6073 | 12.35 |
| | | | | | To4N3: 100ltrs waste decomposer solution | | 8.70 | quintals | 23.60 | 7.55 | 7056 | 6371 | 10.30 |
| | | | | | To4N4: 200ltrs waste decomposer solution | | 8.75 | Quintals | 23.55 | 7.36 | 7514 | 6729 | 9.57 |

1. Title of Technology Assessed: Assessment of different compost cultures in composting of sericulture wastes

2. Performance of the Technology on specific indicators: The technology microbial consortia NCOF, Ghaziabad has performed well on composting of seri waste from rearing

3. Specific Feedback from farmers: - Composting is easy and faster which will be helpful for use of other crops too in addition to mulberry cultivation

4.Specific Feedback from Extension personnel and other stakeholders: -

5. Feedback to Research System based on results and feedback received: Use of NCOF, Ghaziabad microbial consortia at 200 litres for converting 1 ton of seri-waste has resulted in better yield of compost and at faster rate. The microbial consortium is of low cost and number of cycles of conversion of seri waste (4.29) is more per year

| UF I -J |
|----------------|
|----------------|

| Crop/ enterprise | Farming situation | Problem definition | Title of OFT | No. of trials | Technology Assessed | Source of technology | Yield | Unit of yield | d 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 | | |
| Ridgegourd | Irrigated | Severe incidence of YMV (> 38%) | Assessment on management of mosaic virus in ridge gourd through integrated approach | 3 | T.O.1 (Farmers practice): Imidacloprid 17.8 SL (0. 1%), Thiomethaxam 25 WG (0.05%), Acetamiprid 20%SP 0.1%, Diafenthiuron 500 SC (0.1%), Acephate 0.15% | Farmers Practice | 28.65 | t/ha | YMV incidence | 24.98 | 581256 | 435355 | 3.98 | | |
| | | | T.O.2 : Seed treatment with imidacloprid (70 WG) – 5g/kg seeds, Sowing of border crop (SA Tall maize) – 35 -40 days before sowing of ridge gourd, Spraying of Imidacloprid 17.8 SL (30 DAS) & Thiomethaxam 25 WG (45 DAS) | UAS, Bangalore | 29.97 | t/ha | YMV incidence | 20.34 | 565720 | 425203 | 4.02 | | | | |
| | | | | | TO3: Sowing of border crop (SA Tall maize) – 35 -40 days before sowing of ridge gourd, soil application of carbo furan 1.5 kg/ha., 5% NSKE spray Spraying of Imidacloprid 17.8 SL (30 DAS) | IIHR, B'lore | 30.64 | t/ha | YMV incidence | 16.58 | 550824 | 408199 | 3.86 | | |

| T.O.4: Seed treatment | IIVR, | 35.06 | t/ha | YMV | 7.58 | 696781 | 551466 | 4.80 |
|----------------------------|----------|-------|------|-----------|------|--------|--------|------|
| with Thiomethaxam 25 | Varanasi | | | incidence | | | | |
| WG - 5g/kg seeds, | | | | | | | | |
| Mulching with black | | | | | | | | |
| silver mulch, | | | | | | | | |
| Intercropping with two | | | | | | | | |
| rows of border crops of | | | | | | | | |
| maize, Soil application | | | | | | | | |
| of Pseudomonas | | | | | | | | |
| fluorescens along with | | | | | | | | |
| neem cake, Installation of | | | | | | | | |
| | | | | | | | | |
| yellow sticky trap @ | | | | | | | | |
| 10no/acre Spraying of | | | | | | | | |
| neem soap (5g/L), | | | | | | | | |
| Salicyllic acid 2mM and | | | | | | | | |
| Entomopathogenic | | | | | | | | |
| fungus Beauveria | | | | | | | | |
| bassiana @ 11itre/acre, | | | | | | | | |
| Thiamethoxam 25% WG | | | | | | | | |
| (0.05%) and Imidacloprid | | | | | | | | |
| 17.8 SL (0. 1%) | | | | | | | | |

1. Title of Technology Assessed : Assessment on Management of Yellow Mosaic Virus in ridge gourd through Integrated Approach

2. Performance of the Technology on specific indicators: Integrated disease management helps in reduction of diseases and also pesticide consumption

3. Specific Feedback from farmers: Combination of the technology gave better yield as well as quality of gourd, locally non available of bio agents in time.

4. Specific Feedback from Extension personnel and other stakeholders:

5. Feedback to Research System based on results and feedback received:-

OFT-4

| Crop/ enterprise | Farming situation | Problem definition | Title of OFT | No. of trials | Technology Assessed | Source of technology | Yield | Unit of yield | Observatio than y | | 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 |
| Sericulture | Irrigated | More defective | Assessment on management of | 3 | T1: Fix the nylon net to windows and doors | (Farmers Practice) | 80.06 | 100 DFLs | 3.00 | 6.67 | 40028 | 25618 | 2.78 |
| | | cocoons least cocoon yield and price | uzifly in silkworm rearing | | T2: Fix the Nylon Net and tag the 2 Pouch <i>Nesolynx thymus</i> during silkworm rearing | CSR&TI, Mysore) | 85.20 | 100 DFLs | 2.00 | 6.00 | 42600 | 26412 | 2.63 |
| | | | | | T3: Fix the Nylon Net + Yellow Sticky Trap | KSSRDI, Bangalore) | 87.36 | 100 DFLs | 4.67 | 7.33 | 43682 | 26209 | 2.50 |
| | | | | | T4: Fix the Nylon Net + Sex Pheromone Trap | CSR&TI, Mysore) | 87.59 | 100 DFLs | 1.67 | 6.00 | 43793 | 28903 | 2.94 |

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- 1. Title of Technology Assessed : Assessment on management of uzifly in silkworm rearing
- 2. Performance of the Technology on specific indicators: Integrated management of uzi fly
- 3. Specific Feedback from farmers: Combination of nylon net + yellow sticky trap with pheromone trap and Nesolynx thymus parasitoid can control uzi fly effectively.
- 4. Specific Feedback from Extension personnel and other stakeholders:
- 5. Feedback to Research System based on results and feedback received:-

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 |
| Sericulture | Irrigated | | Assessment on management of uzifly in silkworm rearing | | T.O.1 (Farmers practice) | | | | | | | |
| | | | | | T.O.2 | | | | | | | |
| | | | | | T.O.3 | | | | | | | |
| | | | | | | | | | | | | |

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

PART V - FRONTLINE DEMONSTRATIONS (2020)

5.A. Summary of FLDs implemented

| SI. | | Farming | _ | _ | Variety | Hybri | | | Area (| ha) | Farme | rs (No.) | Farmers | |
|-----|------------|------------------------|--------|--------------|------------------------|-------------------|-----------------------------------|--|----------|--------|-------|----------|--------------------|------------|
| No | Category | Situation | Season | Crop | / breed | d | Thematic area | Technology Demonstrated | Proposed | Actual | SC/ST | Others | Small/ Marginal | Other s |
| | Oilseed | | | | | | | | | | | | | |
| | Pulses | | | | | | | • | | | | | | |
| | | | | | | | | | | | | | | |
| | Cereals | | | | | | | | | | | | | |
| | | Irrigated | Kharif | Paddy | Gangav athi sona | - | Nutrient Management | Rec. dose of fertilizer (RDF): 100:50:50 NPK kg/ha. + ZnSo4 20 kg/ha (25% higher application of Rec. fertilizers under salt affected) Advisory green manuring Foliar Spray of 0.2% Boron at flowering Use of salt tolerant variety | 4.0 | 4.0 | 2 | 8 | 10 | - |
| | | Irrigated | Kharif | Paddy | Hybrid | - | Pest & Disease management | Seed treatment with Carbendazim 4 g/kg Neem cake (250 Kg / ha) Clipping off tip of the rice seedling Release of Trichograma (25 cards / ha), Use of Pheromone traps (15 /ha) Kitazin 0.2% Chloropyriphos 20 EC (2ml/L) | 4.0 | 4.0 | 1 | 9 | 10 | - |
| | | Irrigated / Rainfed | Kharif | Maize | - | MAH -14-5 | Introduction of new hybrid | Introduction of hybrid Maize MAH-14-5. Seed treatment with biofertilizer (Azospirillum and PSB @ 200g/acre each) Application of Zinc sulphate (8kg/acre) Application of pre emergence herbicide Atrazine @1 kg a.i. /ha Application of need based plant protection chemicals | 4.0 | 4.0 | - | 5 | 5 | _ |
| | Millets | Irrigated / Rainfed | Kharif | Ragi | KMR 630 | - | Introduction of new variety | Introduction of new and short duration variety KMR 630 Application of FYM @ 4 t/acre Seed treatment with biofertilizer (Azospirillum @ 200g/acre) Line sowing | 4.0 | 4.0 | - | 10 | 10 | - |
| | Vegetables | Irrigated | Kharif | Capsic um | Indra | - | INM | FYM @ 25t/ha + Trichoderma @ 2kg /ha + Pseudomonas @ 2 kg /ha NPK 150:75:50 kg/ha (50% N & 100% P, K as basal dose, remaining 50%N @ 30 DAS) Vegetable special 5 g/ L Sowing at spacing 60 x 45 cm Pongamia/ Neem soap 10gm/l for thrips, mites and aphids Yellow sticky traps 25 No./ha Blue sticky traps 20 No./ha and marigold crop as border and need based pp chemicals | 4.0 | 4.0 | 2 | 8 | 10 | - |
| | | Irrigated | Kharif | Tomato | - | Arka Abhe d | Pest and disease management | Hybrid Seed Arka Abhed Use of bio-agent enriched FYM Growing marigold as trap crop Spray of vegetable special | 2.0 | 2.0 | - | 5 | 5 | - |

| Farming Situation Irrigated Irrigated Irrigated | Season Kharif Kharif Kharif | Crop Cabbag e French bean Bhendi | Variety / breed Local Arka arjun - | Hybri d - - Arka Nikhit ha | Thematic area ICM ICM ICM | Technology Demonstrated • Use of sticky traps, • Use of Pheromone traps • Use of Pheromone traps • Use of Neem/ Pongamia soap & Need based pp chemicals • Intercropping with Mustard (trap crop) (25:2), Installation of WOTA-T traps (DBM traps) • Use of Sticky traps, Spray of Bt (1ml/l), Neem Soap (5g/l) • Entomopathogenic fungi (Beauveria bassiana) (0.2%), Emamectin benzoate 5SG (0.05%), Chlorfenapyr 10SC (0.1%), Spinosad 2.5SC (0.15)%, veg.spl • Spraying of CoC + Streptocycline • High yielding variety : Arka Sharath/Arka Arjun • Seed treatment with Rhizobium (5g/kg) • Spraying with neem soap (1%) • Demonstration of high yielding F1 hybrid: Arka Nikitha (125 -130 days duration, tolerant to Bhendi yellow vein Mosaic and Yields 21-24 t/ha ,) | Proposed 2.0 2.0 2.0 | Actual 2.0 2.0 2.0 2.0 | SC/ST | Others 5 - 8 | Small/ Marginal | Other s - |
|---|--------------------------------------|---|---|--|---|---|--|---|--|---|---|--|
| Irrigated | Kharif Kharif | e French bean | Arka arjun | - Arka Nikhit | ICM | Use of Pheromone traps Use of Neem/ Pongamia soap & Need based pp chemicals Intercropping with Mustard (trap crop) (25:2), Installation of WOTA-T traps (DBM traps) Use of Sticky traps, Spray of Bt (1ml/l), Neem Soap (5g/l) Entomopathogenic fungi (Beauveria bassiana) (0.2%), Emamectin benzoate 5SG (0.05%), Chlorfenapyr 10SC (0.1%), Spinosad 2.5SC (0.15)%, veg.spl Spraying of CoC + Streptocycline High yielding variety : Arka Sharath/Arka Arjun Seed treatment with Rhizobium (5g/kg) Spraying with Hexaconozole (2 ml/lit) Spraying with neem soap (1%) Demonstration of high yielding F1 hybrid: Arka Nikitha (125 -130 days duration, tolerant to Bhendi yellow vein Mosaic and Yields 21-24 t/ha | 2.0 | 2.0 | - | - | - | - |
| Irrigated | Kharif Kharif | e French bean | Arka arjun | - Arka Nikhit | ICM | Installation of WOTA-T traps (DBM traps) Use of Sticky traps, Spray of Bt (1ml/l), Neem Soap (5g/l) Entomopathogenic fungi (Beauveria bassiana) (0.2%), Emamectin benzoate 5SG (0.05%), Chlorfenapyr 10SC (0.1%), Spinosad 2.5SC (0.15)%, veg.spl Spraying of CoC + Streptocycline High yielding variety : Arka Sharath/Arka Arjun Seed treatment with Rhizobium (5g/kg) Spraying with Hexaconozole (2 ml/lit) Spraying with neem soap (1%) Demonstration of high yielding F1 hybrid: Arka Nikitha (125 -130 days duration, tolerant to Bhendi yellow vein Mosaic and Yields 21-24 t/ha | 2.0 | 2.0 | - | - | - | - |
| Irrigated | Kharif | bean | arjun | Arka Nikhit | | Seed treatment with Rhizobium (5g/kg) Spraying with Hexaconozole (2 ml/lit) Spraying with neem soap (1%) Demonstration of high yielding F1 hybrid: Arka Nikitha (125 -130 days duration, tolerant to Bhendi yellow vein Mosaic and Yields 21-24 t/ha | | | | | | |
| | | Bhendi | - | Nikhit | ICM | Nikitha (125 -130 days duration, tolerant to Bhendi yellow vein Mosaic and Yields 21-24 t/ha | 2.0 | 2.0 | 2 | 8 | 10 | - |
| Irrigated | Kharif | | 1 | | | Vegetable Special- 2gm /lit at starts at flower initiation stage and regular 15 days interval. | | | | | | |
| | | Betal vine | - | Local | ICM | Arka Microbial Consortia Neem/pungamia soap to manage insect pests Yellow Sticky traps | 1.0 | 1.0 | - | 5 | 5 | - |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Irrigated | Kharif | Banana | Elakki | - | ICM | Arka Microbial Consortia Banana Special spray Bunch feeding (7.5g urea + 7.5 g sulphate of potash dissolved in 100 ml water + 500 g fresh cow dung) Spraying of propiconazole (1ml/lit) | 1.0 | 1.0 | - | 5 | 5 | - |
| Irrigated | Kharif | Papaya | Redlady | - | INM | FYM @ 10 kg per plant + Trichoderma 2kg and Pseudomonas 2kg NPK 250:250:500 g per plant (Entire N and K divide in 6 split application once in 2 months commencing from 2nd month of planting) Zinc sulphate 0.5% and Boron 0.1% Sowing at spacing 1.8 x 1.8 m AMC 10ml per litre | 2.0 | 2.0 | 1 | 4 | 5 | - |
| | | | | | 2 | | Banana Special spray Bunch feeding (7.5g urea + 7.5 g sulphate of potash dissolved in 100 ml water + 500 g fresh cow dung) Spraying of propiconazole (1ml/lit) Spraying of propiconazole (1ml/lit) FYM @ 10 kg per plant + Trichoderma 2kg and Pseudomonas 2kg NPK 250:250:500 g per plant (Entire N and K divide in 6 split application once in 2 months commencing from 2nd month of planting) Zinc sulphate 0.5% and Boron 0.1% | Banana Special spray Bunch feeding (7.5g urea + 7.5 g sulphate of potash dissolved in 100 ml water + 500 g fresh cow dung) Spraying of propiconazole (1ml/lit) gated Kharif Papaya Redlady Papaya Redlady Papaya Redlady Papaya Redlady Papaya Papaya Redlady - INM FYM @ 10 kg per plant + Trichoderma 2kg and Pseudomonas 2kg NPK 250:250:500 g per plant (Entire N and K divide in 6 split application once in 2 months commencing from 2nd month of planting) Zinc sulphate 0.5% and Boron 0.1% Sowing at spacing 1.8 x 1.8 m | Banana Special spray Banana Special spray Bunch feeding (7.5g urea + 7.5g sulphate of potash dissolved in 100 ml water + 500 g fresh cow dung) Spraying of propiconazole (1ml/lit) gated Kharif Papaya Redlady - INM FYM @ 10 kg per plant + Trichoderma 2kg and Pseudomonas 2kg 2.0 2.0 NPK 250:250:500 g per plant (Entire N and K divide in 6 split application once in 2 months commencing from 2nd month of planting) Zinc sulphate 0.5% and Boron 0.1% Sowing at spacing 1.8 x 1.8 m | Banana Special spray • Banana Special spray Bunch feeding (7.5g urea + 7.5 g sulphate of potash dissolved in 100 ml water + 500 g fresh cow dung) • Spraying of propiconazole (1ml/lit) gated Kharif Papaya Redlady - INM • FYM @ 10 kg per plant + Trichoderma 2kg and Pseudomonas 2kg 2.0 2.0 1 Vide in 6 split application once in 2 months commencing from 2nd month of planting) • Zinc sulphate 0.5% and Boron 0.1% • Sowing at spacing 1.8 x 1.8 m • Sowing at spacing 1.8 x 1.8 m | Banana Special spray Banana Special spray Bunch feeding (7.5g urea + 7.5 g sulphate of potash dissolved in 100 ml water + 500 g fresh cow dung) Spraying of propiconazole (1ml/lit) gated Kharif Papaya Redlady - INM FYM @ 10 kg per plant + Trichoderma 2kg and Pseudomonas 2kg 2.0 2.0 1 4 VPK 250:250:500 g per plant (Entire N and K divide in 6 split application once in 2 months commencing from 2nd month of planting) Zinc sulphate 0.5% and Boron 0.1% Sowing at spacing 1.8 x 1.8 m 8 | Banana Special spray Banana Special spray Bunch feeding (7.5g urea + 7.5 g sulphate of potash dissolved in 100 ml water + 500 g fresh cow dung) Spraying of propiconazole (1ml/lit) gated Kharif Papaya Redlady - INM FYM @ 10 kg per plant + Trichoderma 2kg and Pseudomonas 2kg 2.0 1 4 5 Vide in 6 split application once in 2 months commencing from 2nd month of planting) Zinc sulphate 0.5% and Born 0.1% Sowing at spacing 1.8 x 1.8 m 1.8 m 1 4 5 |

| SI. | | Farming | | | Variety | Hybri | | | Area (| ha) | Farme | rs (No.) | Farmers | |
|-----------|---|-----------|--------|-------------------------|-------------|--------------------|--|--|----------|--------|-------|----------|--------------------|------------|
| SI. No | Category | Situation | Season | Crop | / breed | d | Thematic area | Technology Demonstrated | Proposed | Actual | SC/ST | Others | Small/ Marginal | Other s |
| | Commercia 1 | | | | | | | | | | | | | |
| | Medicinal and aromatic | | | | | | | | | | | | | |
| | Fodder | | | | | | | | | | | | | |
| | Todder | Irrigated | Kharif | Fodder Sorghu m | COFS- 29 | - | Varietal introduction | Multicut sorghum variety CoFS-29 | 4.0 | 4.0 | 2 | 8 | 10 | - |
| | Plantation | | | | | | | | | | | | | |
| | Fibre | | | | | | | | | | | | | |
| | Dairy | | | | | | | | | | | | | |
| | Poultry | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | Rabbitry | | | | | | | | | | | | | |
| | Piggery | | | | | | | | | | | | | |
| | Sheep and goat | | | | | | | | | | | | | |
| | Duckery | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | Common carps | | | | | | | | | | | | | |
| | Mussels | | | | | | | | | | | | | |
| | Ornamental fishes | | | | | | | | | | | | | |
| | Oyster mushroom | | | | | | | | | | | | | |
| | Button mushroom | | | | | | | | | | | | | |
| | Vermicom post | | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | | | |
| | Sericulture | Irrigated | Kharif | Silkwo rm rearing | - | FC-1 x FC- 2 | Popularization of improved variety | Silkworm Bivoltine double hybrid FC-1 x FC-2 | - | - | - | 5 | 5 | - |
| | | Irrigated | Kharif | Silkwo rm | - | PM x CSR2 | Uniform maturation | Phyto ecdysteriod (Sampoorna) to 5th instar silkworm through mulberry leaf @ 2.5 mg/100 ml | - | - | 10 | 10 | 10 | - |

| SI. | | Familia | | | Variety | Hakat | | | Area (| ha) | Farme | rs (No.) | Farmers | (No.) |
|-----|---------------------|----------------------|--------|--------------|---------|------------|------------------------|--|----------|--------|-------|----------|--------------------|------------|
| No | Category | Farming Situation | Season | Crop | / breed | Hybri d | Thematic area | Technology Demonstrated | Proposed | Actual | SC/ST | Others | Small/ Marginal | Other s |
| | | | | rearing | | | | water / kg of leaf/1000 silkworms | | | | | | |
| | | Irrigated | Kharif | Mulber ry | V-1 | - | Nutrient Management | 7ml of Poshan/lt Spraying on Mulberry leaves after 25-30 days after pruning | 2.0 | 2.0 | 1 | 9 | 10 | - |
| | | Irrigated | Kharif | Mulber ry | V-1 | - | ICM | Mulberry with fodder crops (Cowpea) Improving soil fertility | 4.0 | 4.0 | 2 | 8 | 10 | - |
| | Apiculture | | | | | | | | | | | | | |
| | Implements | | | | | | | | | | | | | |
| | Others (specify) | | | | | | | | | | | | | |

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

| Sl. No. | Category | Farming Situation | Season and | Crop | Variety/ | Hybrid | Thematic area | Technology Demonstrated | Season | St | tatus of so | oil | Previous crop grown |
|------------|----------|------------------------|---------------|-------|--------------------|---------------|--------------------------------|---|----------------|--------|-------------|--------|------------------------|
| NO. | | | Year | | breed | | | | and year | N | Р | Κ | |
| | Oilseeds | - | - | - | - | - | - | - | - | - | | | |
| 1 | Pulses | | | | | | | • | | | | | |
| 2 | Cereals | | | | | | | • | | | | | |
| 3 | | Irrigated | Kharif | Paddy | Gangavathi sona | - | Nutrient Management | Rec. dose of fertilizer (RDF): 100:50:50 NPK kg/ha. + ZnSo4 20 kg/ha (25% higher application of Rec. fertilizers under salt affected) Advisory green manuring Foliar Spray of 0.2% Boron at flowering Use of salt tolerant variety | Kharif 2020 | 332.32 | 28.08 | 134.31 | Paddy |
| 4 | | Irrigated | Kharif | Paddy | Hybrid | - | Pest & Disease management | Seed treatment with Carbendazim 4 g/kg Neem cake (250 Kg / ha) Clipping off tip of the rice seedling Release of Trichograma (25 cards / ha), Use of Pheromone traps (15 /ha) Kitazin 0.2% Chloropyriphos 20 EC (2ml/L) | Kharif 2020 | 294.50 | 28.62 | 198.28 | Paddy |
| 5 | | Irrigated / Rainfed | Kharif | Maize | - | MAH - 14-5 | Introduction of new hybrid | Introduction of hybrid Maize MAH-14-5. Seed treatment with biofertilizer (Azospirillum and PSB @ 200g/acre each) Application of Zinc sulphate (8kg/acre) Application of pre emergence herbicide Atrazine @1 kg a.i. /ha Application of need based plant protection chemicals | Kharif 2019 | 385.56 | 36.50 | 215.65 | Ragi |
| 6 | Millets | Irrigated / Rainfed | Kharif | Ragi | KMR 630 | - | Introduction of new variety | Introduction of new and short duration variety KMR 630 Application of FYM @ 4 t/acre Seed treatment with biofertilizer (Azospirillum @ 200g/acre) Line sowing | Kharif 2020 | 310.00 | 34.50 | 189.65 | Maize, Ragi |

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| 7 | Vegetables | Irrigated | Kharif | Capsicum | Indra | - | ICM | FYM @ 25t/ha + Trichoderma @ 2kg /ha + Pseudomonas @ 2 kg /ha NPK 150:75:50 kg/ha (50% N & 100% P, K as basal dose, remaining 50% N @ 30 DAS) Vegetable special 5 g/ L Sowing at spacing 60 x 45 cm Pongamia/ Neem soap 10gm/l for thrips, mites and aphids Yellow sticky traps 25 No./ha Blue sticky traps 20 No./ha and marigold crop as border and need based pp chemicals | Kharif 2020 | 266.20 | 42.24 | 215.44 | Capsicum, cabbage, cucumber, Tomato |
|----|-----------------------|-----------|--------|------------|------------|------------------|--------------------------------|---|----------------|--------|-------|--------|--|
| 8 | | Irrigated | Kharif | Tomato | - | Arka Abhed | Pest and disease management | Hybrid Seed Arka Abhed Use of bio-agent enriched FYM Growing marigold as trap crop Spray of vegetable special Use of sticky traps, Use of Pheromone traps Use of Neem/ Pongamia soap & Need based pp chemicals | Kharif 2020 | 296.67 | 44.79 | 212.23 | Small onion |
| 9 | | Irrigated | Kharif | Cabbage | Local | - | ICM | Intercropping with Mustard (trap crop) (25:2), Installation of WOTA-T traps (DBM traps) Use of Sticky traps, Spray of Bt (1ml/1), Neem Soap (5g/1) Entomopathogenic fungi (Beauveria bassiana) (0.2%), Emamectin benzoate 5SG (0.05%), Chlorfenapyr 10SC (0.1%), Spinosad 2.5SC (0.15)%, veg.spl Spraying of CoC + Streptocycline | Kharif 2020 | 289.56 | 49.34 | 238.00 | Cucumber, Bhendi |
| 10 | | Irrigated | Kharif | Frenchbean | Arka arjun | - | ICM | High yielding variety : Arka Sharath/Arka Arjun Seed treatment with Rhizobium (5g/kg) Spraying with Hexaconozole (2 ml/lit) Spraying with neem soap (1%) | Kharif 2020 | 296.50 | 29.85 | 200.50 | Tomato |
| 11 | | Irrigated | Kharif | Bhendi | - | Arka Nikhitha | ICM | Demonstration of high yielding F1 hybrid: Arka Nikitha (125 -130 days duration, tolerant to Bhendi yellow vein Mosaic and Yields 21-24 t/ha,) Vegetable Special- 2gm /lit at starts at flower initiation stage and regular 15 days interval. | Kharif 2020 | 310.45 | 32.10 | 189.00 | Ragi |
| 12 | | Irrigated | Kharif | Betel vine | - | Local | ICM | Arka Microbial Consortia Neem/pungamia soap to manage insect pests Yellow Sticky traps | Kharif 2020 | 324.50 | 27.66 | 175.50 | Betel vine |
| | Flowers Ornamental | | | | | | | | | | | | |
| 13 | Fruit | Irrigated | Kharif | Banana | Elakki | - | ICM | Arka Microbial Consortia Banana Special spray Bunch feeding (7.5g urea + 7.5 g sulphate of potash dissolved in 100 ml water + 500 g fresh cow dung) Spraying of propiconazole (1ml/lit) | Kharif 2020 | 306.34 | 32.34 | 196.67 | Pulses |
| 14 | | Irrigated | Kharif | Рарауа | Redlady | - | INM | FYM @ 10 kg per plant + Trichoderma 2kg and Pseudomonas 2kg NPK 250:250:500 g per plant (Entire N and K divide in 6 split application once in 2 months commencing from 2nd month of planting) Zinc sulphate 0.5% and Boron 0.1% | Kharif 2020 | 310.23 | 35.00 | 187.45 | Flowers, cucumber, Capsicum |

| | | | | | | | | Sowing at spacing 1.8 x 1.8 m | | | | | |
|----|--------------------------|-----------|--------|---------------------|---------|----------------|---------------------------------------|---|----------------|--------|-------|--------|--------------------------|
| | | | | | | | | AMC 10ml per litre | | | | | |
| | Spices and condiments | | | | | | | | | | | | |
| 15 | Commercial | Irrigated | Kharif | Silkworm rearing | - | FC-1 x FC-2 | Popularization of improved variety | Silkworm Bivoltine double hybrid FC-1 x FC-2 | - | - | - | - | - |
| 16 | | Irrigated | Kharif | Silkworm rearing | - | PM x CSR2 | Uniform maturation | Phyto ecdysteriod (Sampoorna) to 5th instar silkworm through mulberry leaf @ 2.5 mg/100 ml water / kg of leaf/1000 silkworms | - | - | - | - | - |
| 17 | | Irrigated | Kharif | Mulberry | V-1 | - | Nutrient Management | 7ml of Poshan/lt Spraying on Mulberry leaves after 25-30 days after pruning | Kharif 2020 | 359.32 | 30.38 | 156.00 | Mulberry |
| 18 | | Irrigated | Kharif | Mulberry | V-1 | - | ICM | Intercropping of pulse crop (Cowpea) with Mulberry Improving soil fertility | Kharif 2020 | 320.68 | 29.85 | 184.65 | Mulberry as sole crop |
| | Medicinal and aromatic | | | | | | | | | | | | |
| 19 | Fodder | Irrigated | Kharif | Fodder Sorghum | COFS-29 | - | Varietal introduction | Multicut sorghum variety CoFS-29 | Kharif 2020 | 279.45 | 25.60 | 170.67 | Fodder |
| | Plantation | | | | | | | | | | | | |
| | Fibre | | | | | | | | | | | | |

5.B. Results of FLDs

5.B.1. Crops

| | Name of the technology | | | Farming | No. of | Area | | Yield (q/ha) | | | % | Economics | of demonstrati | on (Rs./ha) | Econom | ics of Check (I | Rs./ha) |
|------------|---|---------------------|------------------|------------------------|--------|------|-------|--------------|-------|-------|----------|-----------------|----------------|-------------|-----------------|-----------------|---------|
| Crop | demonstrated | Variety | Hybrid | situation | Demo. | (ha) | | Demo | | Check | Increase | Gross Return | Net Return | BCR | Gross Return | Net Return | BCR |
| | | | | | | | Н | L | A | | | | | | | | |
| Oilseeds | | | | | | | | | | | | | | | | | |
| Pulses | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| Cereals | | | | | | | | | | | | | | | | | |
| Paddy | Nutrient management in paddy for yield enhancement under salt affected soils | Gangavath i sona | - | Irrigated | 10 | 4.0 | 43.45 | 40.12 | 41.88 | 33.69 | 24.31 | 67008 | 21456 | 1.47 | 53910 | 9178 | 1.20 |
| Paddy | Integrated pest and disease management in paddy | Private hybrid | - | Irrigated | 10 | 4.0 | 58.75 | 52.5 | 55.75 | 52.6 | 5.99 | 105350 | 99680 | 2.01 | 99680 | 42260 | 1.74 |
| Maize | Integrated crop management in maize | - | MAH- 14-5 | Irrigated | 10 | 4.0 | 90.48 | 80.20 | 86.75 | 68.20 | 27.19 | 156150 | 118500 | 4.14 | 122760 | 81360 | 2.96 |
| Millets | | | | | | | | | | | | | | | | | |
| Ragi | Demonstration of short duration ragi variety KMR 630 | KMR- 630 | - | Irrigated / Rainfed | 10 | 4.0 | 42.68 | 30.20 | 37.50 | 26.50 | 41.50 | 120000 | 81400 | 3.10 | 84800 | 41450 | 1.95 |
| Vegetables | | | | | | | | | | | | | | | | | |
| Capsicum | Integrated crop management for capsicum production | | Indra Private | Irrigated | 10 | 4.0 | 384.0 | 342.0 | 362.6 | 297.1 | 22.05 | 507696 | 390896 | 4.30 | 415982 | 291182 | 3.30 |
| Papaya | Integrated nutrient management in papaya | Redlady | | Irrigated | | | | | | | | | | | | | |
| Tomato | Demonstration of tomato Hyb. Arka Abhed | - | Arka Abhed | Irrigated | 5 | 2.0 | 680 | 660 | 673 | 586 | 14.88 | 673200 | 510000 | 4.13 | 586000 | 395600 | 3.08 |

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| | | | | Farming | | | | Yield (q/ha) | | | | Economics | of demonstration | on (Rs./ha) | Econom | ics of Check (F | 36 Rs./ha) |
|------------------|---|----------------|-------------------|-----------|-----------------|--------------|----------------|----------------|-----------------------|-------------------|---------------|-----------|------------------|-------------|--------|-----------------|---------------|
| Crop | Name of the technology demonstrated | Variety | Hybrid | situation | No. of Demo. | Area (ha) | | Demo | | Check | % Increase | Gross | Net | BCR | Gross | Net | BCR |
| | | | | | | | Н | L | A | | | Return | Return | | Return | Return | |
| Cabbage | Integrated crop management in cabbage | Local | | Irrigated | 5 | 2.0 | 361 | 345 | 354 | 307 | 15.23 | 247800 | 163110 | 2.93 | 184320 | 91630 | 1.99 |
| Frenchbean | Intercropping of French bean in coconut garden | Arka arjun | | Irrigated | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Bhendi | Integrated crop management in bhendi | - | Arka nikitha | Irrigated | 10 | 2.0 | 220 | 178 | 194. 80 | 161.50 | 20.62 | 467520 | 333820 | 3.52 | 387600 | 216920 | 2.28 |
| Betal vine | Integrated crop management in betel vine | Local | - | Irrigated | 5 | 1.0 | 262 (Pindi) | 250 (Pindi) | 257. 40 (Pindi) | 226.60 (Pindi) | 13.59 | 463320 | 335320 | 3.64 | 407880 | 245880 | 2.53 |
| Flowers | | | | | | | | | | | | | | | | | |
| Ornamental | | | | | | | | | | | | | | | | | |
| Fruit | | | | | | | | | | | | | | | | | |
| Banana | Integrated crop management in banana | Elakki | - | Irrigated | 5 | 1.0 | 380 | 341 | 362. 20 | 295.60 | 22.53 | 1086600 | 864700 | 4.90 | 886800 | 627000 | 3.41 |
| | Integrated nutrient management in papaya | Redlady | | Irrigated | 5 | 2.5 | | | • | 1 | | ongoin | g | | | | |
| Spices and | | | | | | | | | | | | | | | | | |
| condiments | | | | | | | | | | | | | | | | | |
| Commercial | | | | | | | | | | | | | | | | | |
| | Popularization of improved silkworm hybrid FC-1 x FC-2 | FC-1 x FC-2 | Bivoltin e | Irrigated | 5 | 500 DFLs | 90.18 (kg) | 87.75 (kg) | 88.77 (kg) | 78.08 | 13.69 | 44387 | 28408 | 2.778 | 31232 | 17128 | 2.22 |
| | Demonstration of phyto ecdysteroid for synchronized maturation of silkworm | PM x CSR2 | Multi- voltine | Irrigated | 10 | 1000 DFLs | 86.08 (kg) | 81.60 (kg) | 83.59 (kg) | 79.78 (kg) | 4.785 | 35362 | 20134 | 2.350 | 30157 | 15797 | 2.10 |
| | Integrated nutrient management in mulberry | V-1 | - | Irrigated | 10 | 4.0 | 13258 (kg) | 7004 (kg) | 11361 (kg) | 9774 (kg) | 16.23 | 46502 | 30405 | 2.88 | 39274 | 23244 | 2.450 |
| | Intercrops in wider spaced mulberry garden | V-1 | Cowpea | Irrigated | 10 | 4.0 | 13398 (kg) | 8253 (kg) | 10123 (kg) | 9681 (kg) | 4.566 | 43293 | 27389 | 2.722 | 36447 | 21713 | 2.474 |
| Silkworm rearing | | | | | | | | | | | | | | | | | |
| Silkworm rearing | | | | | | | | | | | | | | | | | |
| Mulberry | | | | | | | | | | | | | | | | | |
| Mulberry | | | | | | | | | | | | | | | | | |
| Fibre crops like | | | | | | | 1 | | | | | | | | | | |
| cotton | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Medicinal and | | | | | | | | | | | | | | | | | |

| | Name of the technology | | | Farming | No. of | Area | | Yield (q/ha) | | | % | Economics | of demonstrati | on (Rs./ha) | Economi | cs of Check (F | ₹s./ha) |
|----------------|--|---------|--------|-----------|--------|------|---|--------------|----|---------|----------|-----------------|----------------|-------------|-----------------|----------------|---------|
| Crop | demonstrated | Variety | Hybrid | situation | Demo. | (ha) | | Demo | | Check | Increase | Gross Return | Net Return | BCR | Gross Return | Net Return | BCR |
| | | | | | | | Н | L | Α | | | | | | | | |
| Fodder | Demonstration of high yielding multicut sorghum CoFS-29 | | | | | | | | Or | n going | | | · | | | | |
| | | | | | | | | | | | | | | | | | |
| Plantation | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Fibre | | | | | | | | | | | | | | | | | |
| Value addition | Microenterprise in foxtail | - | - | - | 1 | - | - | - | - | - | - | 9018 | 6602 | 3.73 | 4500 | 2557 | 2.31 |
| | millet for economic empowerment of foxtail growers (EDP) | | | | | | | | | | | | | | | | |

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 demons | | echnology |
|--|------------------------------------|--------|-----------|
| | Parameter with unit | Demo | Check |
| Nutrient management in paddy for yield enhancement under | Plant height (cm) | 75.04 | 63.42 |
| salt affected soils | No. of productive tillers | 15.30 | 11.50 |
| | No. of filled grains per panicle | 210.83 | 141.50 |
| Integrated pest and disease management | Plant height (cm) | 111.12 | 109.28 |
| in paddy | No. of tillers | 20.4 | 20.08 |
| | Length of panicle (cm) | 24.41 | 24.324 |
| Integrated crop management in maize | Plant height (cm) | 205 | 189 |
| | Cob girth (cm) | 5.60 | 4.94 |
| | No. of lines/ cob | 15.34 | 12.82 |
| | No. of grains/ cob | 555 | 486 |
| | Cob length (cm) | 18.68 | 18.54 |
| Demonstration of short duration ragi variety KMR-630 | Plant height (cm) | 107.34 | 119.60 |
| | No. of tillers/ plant | 4.42 | 3.80 |
| | No. of fingers/panicle | 8.58 | 6.45 |
| | Finger length (cm) | 9.30 | 7.86 |
| Integrated crop management for capsicum production | Plant height (cm) | 71.17 | 68.47 |
| | No. of fruits per plant | 54.80 | 42.60 |
| | No. of pickings | 10-12 | 7-8 |
| | Incidence of thrips (%) | 6.00 | 11.40 |

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| Demonstration of tomato Hyb. Arka Abhed | Plant height (cm) | 146.2 | 105.44 |
|--|----------------------------------|--------|--------|
| | Fruit weight (g) | 93.06 | 87.04 |
| | Pinworm incidence on fruit | 4.76 | 13.24 |
| Integrated crop management in Cabbage | Head weight (kg) | 1.47 | 1.38 |
| | DBM incidence (30 DAT) | 9.33 | 17.33 |
| | DBM incidence (60 DAT) | 13.06 | 25.60 |
| Integrated crop management in bhendi | Plant height (cm) | 299.50 | 240.50 |
| | YVMV incidence (%) | 0.00 | 10.12 |
| Integrated crop management in betel vine | Foot rot incidence (%) | 4.40 | 22.40 |
| Integrated crop management in banana | Bunch weight (kg) | 17.30 | 13.70 |
| | Panama wilt incidence (3 MAP) | 0.0 | 1.80 |
| | Panama wilt incidence (6 MAP) | 1.17 | 5.33 |
| | Panama wilt incidence (9 MAP) | 2.73 | 9.17 |
| Popularization of improved silkworm hybrid FC-1 x FC-2 | Direct larval weight (g) | 5.571 | 5.012 |
| | Cocoon weight (g) | 2.094 | 1.914 |
| | Shell ratio (%) | 21.88 | 21.38 |
| Demonstration of phyto ecdysteroid for synchronized | Direct larval weight (g) | 5.242 | 5.005 |
| maturation of silkworm | Cocoon weight (g) | 1.972 | 1.832 |
| | Shell ratio (%) | 21.45 | 20.97 |
| Integrated nutrient management in mulberry | No. of leaf (No.) | 158 | 143 |
| | Plant height (cm) | 164.7 | 154.1 |
| Intercrops in wider spaced mulberry garden | No. of leaf (No.) | 153 | 138 |
| | Plant height (cm) | 165 | 148 |

Nutri garden

Table :1 Food consumption pattern of the farm family (N=25)

| Sl.No. | Food consumption pattern | Category | No. | % |
|--------|----------------------------------|--------------------|-----|-----|
| 1 | Food habits | Vegetarian | 04 | 16 |
| | | Non-Vegetarian | 21 | 84 |
| 2 | Frequency of non-veg consumption | Monthly four times | 14 | 56 |
| | | Monthly thrice | 03 | 12 |
| | | Monthly twice | 04 | 16 |
| 3 | Meals consumed per day | Thrice a day | 25 | 100 |

Table 2 Anthropometric measurements of the farm families

| BMI <18.5 | BMI 18.5-22.9 | BMI 23.0-24.9 | BMI 25.0-29.9 | BMI >29.9 |
|--------------------|---------------|-------------------|-----------------|------------------|
| Under weight (No.) | Normal (No.) | Over weight (No.) | Obese G-I (No.) | Obese G-II (No.) |
| 15 | 52 | 11 | 4 | 2 |

Table.3 Demographic variables of the farm families (N=25)

| Gender | Male | 59 |
|---------------------------------------|---------------------------|--------|
| | Female | 53 |
| Age(years) | >18 | 84 |
| | <18 | 28 |
| Type of family | Nuclear Family | 16 |
| | Joint Family | 9 |
| Family size | Small size(1-4 member) | 14 |
| | Medium size(5- 6 members) | 11 |
| Occupational status | Home Maker and Agril. | 25 |
| Education | Illiterate | 5 |
| | Primary and Middle School | 3 |
| | High School | 10 |
| | PUC | 5 |
| | Graduation | 2 |
| Land Holding (ac.) | Small (<2.5) | 14 |
| | Medium (>2.5) | 11 |
| Family Expenditure Pattern(Rs.)/Month | Food | 3414 |
| | Education | 2268 |
| | Health and Medicine | 758 |
| | Fruits and Vegetables | 1650 |
| | others | 1511.8 |
| | Total | 8787 |

| Sl.No | Food groups(g)/day | RDA(g) | | intake (g) rage) | % Adequacy | | |
|-------|------------------------|--------|--------|---------------------|------------|--------|--|
| | | | Before | After | Before | After | |
| 1 | Cereals | 330 | 347.29 | 350.2 | 105.24 | 106.12 | |
| 2 | Pulses | 75 | 63.78 | 66.51 | 85.04 | 88.68 | |
| 3 | Milk and Milk products | 300 | 149.4 | 370.32 | 49.8 | 123.44 | |
| 4 | Roots and tubers | 200 | 83.04 | 170.4 | 41.52 | 85.2 | |
| 5 | Green Leafy Vegetables | 100 | 52.8 | 86.8 | 52.8 | 86.8 | |
| 6 | Other vegetables | 200 | 139.2 | 234.88 | 69.6 | 117.44 | |
| 7 | Fruits | 100 | 41.2 | 87376 | 41.2 | 87.76 | |
| 8 | Sugar | 30 | 25.28 | 25.74 | 84.28 | 85.8 | |
| 9 | Fat | 25 | 21.8 | 23.22 | 87.2 | 92.88 | |

Table 4: Average consumption of food and percentage adequacy before and after implementation of Nutri-garden by farm women (N=25)

Table 5. Changes occurred by intervention of kitchen garden

| Particulars | Vegetable yield (Kg) | Purchased Vegetable (Kg) | Expenditure (Rs.) | Vegetable usage (Kg) | Consumption / person / day (g) | %Adequacy |
|---|-------------------------|-----------------------------|-------------------|----------------------|-----------------------------------|-----------|
| Before nutri garden establishment | - | 247.5 | 9900 | 247.5 | 275 | 55 |
| After implementation of Nutri garden | 463.06 | - | 2000 | 463.06 | 492 | 98 |

5.B.2. Livestock and related enterprises: Nil

| Type of livestock | Name of the technology demonstrated | Breed | No. of Demo | No. | Name of the | | Yi | eld (k | g/animal) | % Increase | *Economic | s of demonstration | Rs./unit) | *Eco | onomics of ch (Rs./unit) | .eck |
|---------------------|-------------------------------------|-------|--------------|----------|------------------------|---|-----|--------|--------------|------------|-----------------|--------------------|-----------|-----------------|-----------------------------|-----------|
| Type of Investock | Name of the technology demonstrated | Bieeu | No. of Denio | of Units | parameter with unit |] | Dem | 0 | Check if any | 76 merease | Gross Return | Net Return | ** BCR | Gross Return | Net Return | ** BCR |
| | | | | | | H | L | Α | | | Ketuin | | DUK | Ketuin | | DUR |
| 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.B.3. Fisheries: Nil

| Type of | Name of the technology | Breed | No. of | Units/ Area | Name of the parameter with unit | Yield (q | | | (q/ha) | % | *Economics of demonstration (Rs./unit) | | | *Economics of check (Rs./unit) | | |
|--------------|------------------------|-------|--------|-------------------|------------------------------------|----------|------|---|-----------------|----------|---|------------|-----------|-----------------------------------|---------------|-----------|
| Breed | demonstrated | Breed | Demo | (m ²) | |] | Demo | D | Check if any | Increase | Gross Return | Net Return | ** BCR | Gross Return | Net Return | ** BCR |
| | | | | | | H | L | A | | | Ketuili | | DUK | Ketuin | Ketuin | DUK |
| Common carps | | | | | | | | | | | | | | | | |
| 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.B.4. Other enterprises

| Entermine | Name of the technology | Variety/ | No. of | Units/ | Name of the parameter with | Yield | | | | % | | mics of demonst ./unit) or (Rs./m2 | | *Economics of check (Rs./unit) or (Rs./m2) | | |
|---------------------|------------------------|----------|--------|----------------|----------------------------|-------|---|---|-----------------|----------|-----------------|---------------------------------------|-----------|---|---------------|-----------|
| Enterprise | demonstrated | species | Demo | Area $\{m^2\}$ | unit | Dem | 0 | | Check if any | Increase | Gross Return | Net Return | ** BCR | Gross Return | Net Return | ** BCR |
| | | | | | | Н | L | Α | | | Ketuin | | DUK | Ketuin | Ketuin | DUK |
| Oyster mushroom | | | | | | | | | | | | | | | | |
| Button mushroom | | | | | | | | | | | | | | | | |
| Vermicompost | | | | | | | | | | | | | | | | |
| Sericulture | | | | | | | | | | | | | | | | |
| Apiculture | | | | | | | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | | | | | | | |

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

** BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

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

| Dat | a on other parameters in relation to tecl | hnology demonstrated |
|---------------------|---|----------------------|
| Parameter with unit | Demo | Local |
| | | |
| | | |
| | | |

5.B.5. Farm implements and machinery

| Name of the | Cost of the implement in | Name of the technology | No. of | Area covered | Name of the | | equirement indays | % save | Savings in labour | *Econom | ics of demons (Rs./ha) | stration | *Eco | nomics of ch (Rs./ha) | eck |
|-------------|--------------------------|------------------------|--------|---------------------|------------------------|------|----------------------|---------|-------------------|-----------------|---------------------------|-----------|-----------------|--------------------------|-----------|
| implement | Rs. | demonstrated | Demo | under demo in ha | operation with unit | Demo | Check | 70 3470 | (Rs./ha) | Gross Return | Net Return | ** BCR | Gross Return | Net Return | ** BCR |
| | | | | | | | | | | Ketulli | Ketulli | BCK | Ketulli | Ketuin | DCK |
| | | | | | | | | | | | | | | | |
| | | | | |] | | | | | | | | | | |

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

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

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

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

| Sl.No. | Activity | No. of activities organised | Number of participants | Remarks |
|--------|--------------------------------------|-----------------------------|------------------------|---------|
| 1 | Field days | 12 | 318 | - |
| 2 | Farmers Training | 18 | 540 | - |
| 3 | Media coverage | 12 | - | - |
| 4 | Training for extension functionaries | - | - | - |
| 5 | Others (Extension Activities) | 54 | 406 | - |

PART VI – DEMONSTRATIONS ON CROP HYBRIDS (2020)

Demonstration details on crop hybrids

| Type of Breed | Name of the technology demonstrated | Name of the | No. of Demo | Area | | Yie | ld (q/ha) | | % | *Econo | mics of demonst (Rs./ha) | ration | *Ecor | nomics of ch (Rs./ha) | ieck |
|-----------------|--|---------------|----------------|------|-------|------|-----------|--------|----------|--------|-----------------------------|--------|--------|--------------------------|--------|
| • | | hybrid | Demo | (ha) | | Demo |) | Check | Increase | Gross | Net Return | ** | Gross | Net | ** |
| | | | | | Н | L | А | | | Return | Net Ketum | BCR | Return | Return | BCR |
| Cereals | | | | | | | | | | | | | | | |
| Bajra | | | | | | | | | | | | | | | |
| Maize | Integrated crop management in maize | MAH -14-5 | 10 | 4.0 | 58.75 | 52.5 | 55.75 | 52.6 | 5.99 | 105350 | 99680 | 2.01 | 99680 | 42260 | 1.74 |
| Paddy | | | | | | | | | | | | | | | |
| Sorghum | | | | | | | | | | | | | | | |
| Wheat | | | | | | | | | | | | | | | |
| Others | | | | | | | | | | | | | | | |
| (pl.specify) | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | |
| Oilseeds | | | | | | | | | | | | | | | |
| Castor | | | | | | | | | | | | | | | |
| Mustard | | | | | | | | | | | | | | | |
| Safflower | | | | | | | | | | | | | | | |
| Sesame | | | | | | | | | | | | | | | |
| Sunflower | | | | | | | | | | | | | | | |
| Groundnut | | | | | | | | | | | | | | | |
| Soybean | | | | | | | | | | | | | | | |
| Others | | | | | | | | | | | | | | | |
| (pl.specify) | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | |
| Pulses | | | | | | | | | | | | | | | |
| Greengram | | | | | | | - | | | | | | | | |
| Blackgram | | | | | | | | | | | | | | | |
| Bengalgram | | | | | | | | | | | | | | | |
| Redgram | | | | | | | | | | | | | | | |
| Others | | | | | | | | | | | | | | | |
| (pl.specify) | | | | | | | | | | | | | | | _ |
| Total | | | | | | | - | | | | | | | | |
| Vegetable crops | | | | | | | | | | | | | | | |
| Bottle gourd | | | | | | | | | | | | | | | _ |
| Capsicum | | | | | | | | | | | | | | | |
| Others | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | + |
| Cucumber | Demonstration of Transfer Hall A.1 | | 5 | 2.0 | (00 | (()) | 673 | 586 | 14.88 | (72200 | 510000 | 4.12 | 59(000 | 395600 | 1 2 00 |
| Tomato | Demonstration of Tomato Hyb. Arka Abhed | Arka Abhed | 5 | 2.0 | 680 | 660 | | | | 673200 | 510000 | 4.13 | 586000 | | 3.08 |
| Okra | Integrated Crop Management in Bhendi | Arka Nikhitha | 10 | 2.0 | 220 | 178 | 194.80 | 161.50 | 20.62 | 492000 | 346200 | 3.38 | 403200 | 230940 | 2.35 |
| Onion | | | | | | | | | | | | | | | |
| Potato | | | | | | | | | | | | | | | |
| Field bean | | | | | | | | | | | | | | | |
| Others | | | | | | | | | | | | | | | |
| (pl.specify) | | | | | | | | | | | | | | | |

| 4 | 4 | |
|---|----|--|
| - | т. | |

| Type of Breed | Name of the technology demonstrated | Name of the hybrid | No. of Demo | Area (ha) | | Yie | ld (q/ha) | | % Increase | *Econor | mics of demonstr (Rs./ha) | ration | *Eco | nomics of ch (Rs./ha) | leck |
|----------------|-------------------------------------|-----------------------|----------------|--------------|---|------|-----------|-------|---------------|---------|------------------------------|--------|--------|--------------------------|------|
| | | nyona | Demo | (IIII) | | Demo |) | Check | meredse | Gross | Net Return | ** | Gross | Net | ** |
| | | | | | Н | L | А | | | Return | Net Ketuin | BCR | Return | Return | BCR |
| 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

PART VII. TRAINING (2020)

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

| | No. of | | | | | No. of Participa | nts | | | |
|--|---------|------|---------|-------|------|------------------|-------|------|-------------|-------|
| Area of training | Courses | | General | | | SC/ST | | | Grand Total | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Crop Production | | | | | | | | | | |
| Weed Management | | | | | | | | | | |
| Resource Conservation Technologies | | | | | | | | | | |
| Cropping Systems | | | | | | | | | | |
| Crop Diversification | | | | | | | | | | |
| Integrated Farming | | | | | | | | | | |
| Micro Irrigation/Irrigation | 1 | 31 | 0 | 31 | 7 | 0 | 7 | 38 | 0 | 38 |
| Seed production | | | | | | | | | | |
| Nursery management | | | | | | | | | | |
| Integrated Crop Management | 7 | 139 | 8 | 147 | 29 | 0 | 29 | 168 | 8 | 176 |
| Soil and Water Conservation | | | | | | | | | | |
| Integrated Nutrient Management | 2 | 25 | 1 | 0 | 2 | 0 | 0 | 0 | 1 | 28 |
| Production of organic inputs | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Horticulture | | | | | | | | | | |
| a) Vegetable Crops | | | | | | | | | | |
| Production of low value and high volume crop | | | | | | | | | | |
| Off-season vegetables | | | | | | | | | | |
| Nursery raising | | | | | | | | | | |
| Exotic vegetables | | | | | | | | | | |
| Export potential vegetables | | | | | | | | | | |
| Grading and standardization | | | | | | | | | | |
| Protective cultivation | | | | | | | | | | |
| b) Fruits | | | | | | | | | | |
| Training and Pruning | | | | | | | | | | |

| | | | | | | | | | | 46 |
|---|---------|------|---------|-------|------|------------------|-------|------|-------------|-------|
| | No. of | | | | | No. of Participa | nts | | | |
| Area of training | Courses | | General | 1 | | SC/ST | I | | Grand Total | |
| Layout and Management of Orchards | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Cultivation of Fruit | | | | | | | | | | |
| | | | | | | | | | | |
| Management of young plants/orchards | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | |
| Export potential fruits | | | | | | | | | | |
| Micro irrigation systems of orchards | | | | | | | | | | |
| Plant propagation techniques | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| c) Ornamental Plants | | | | | | | | | | |
| Nursery Management | | | | | | | | | | |
| Management of potted plants | | | | | | | | | | |
| Export potential of ornamental plants | | | | | | | | | | |
| Propagation techniques of Ornamental Plants | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| d) Plantation crops | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | |
| Integrated Crop Management | 1 | 26 | 0 | 0 | 4 | 0 | 4 | 26 | 4 | 30 |
| e) Tuber crops | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| f) Spices | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| g) Medicinal and Aromatic Plants | | | | | | | | | | |

| | 1 | | | | | | | | | 47 |
|--|---------|------|---------|---------|------|------------------|-------|------|-------------|-------|
| | No. of | | | | | No. of Participa | nts | | | |
| Area of training | Courses | Mala | General | T - 4-1 | Mala | SC/ST | T-4-1 | Mala | Grand Total | T-4-1 |
| Nursery management | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Production and management technology | | | | | | | | | | |
| Post harvest technology and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Soil Health and Fertility Management | | | | | | | | | | |
| Soil fertility management | | | | | | | | | | |
| Integrated water management | | | | | | | | | | |
| Integrated nutrient management | | 3 89 | 2 | 0 | 7 | 0 | 0 | 0 | 0 | 98 |
| Production and use of organic inputs | | | | | | | | | | |
| Management of Problematic soils | | | | | | | | | | |
| Micro nutrient deficiency in crops | | | | | | | | | | |
| Nutrient use efficiency | | | | | | | | | | |
| Balanced use of fertilizers | | | | | | | | | | |
| Soil and water testing | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Livestock Production and Management | | | | | | | | | | |
| Dairy Management | | | | | | | | | | |
| Poultry Management | | | | | | | | | | |
| Piggery Management | | | | | | | | | | |
| Rabbit Management | | | | | | | | | | |
| Animal Nutrition Management | | | | | | | | | | |
| Animal Disease Management | | | | | | | | | | |
| Feed and Fodder technology | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Home Science/Women empowerment | | | | | | | | | | |
| Household food security by kitchen gardening and nutrition gardening | | | | | | | | | | |

| | | 1 | | | | | | | | 48 |
|---|---------|------|---------|-------|------|------------------|-------|------|-----------------------|-------|
| | No. of | | | | I | No. of Participa | nts | | | |
| Area of training | Courses | Mala | General | Total | Male | SC/ST | Total | Male | Grand Total Female | Total |
| Design and development of low/minimum cost diet | | Male | Female | Totai | Male | Female | Totai | Male | remate | Totai |
| Designing and development for high nutrient efficiency diet | 1 | 6 | 11 | 17 | 0 | 0 | 0 | 0 | 0 | 17 |
| Minimization of nutrient loss in processing | | | | | | | | | | |
| Processing and cooking | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | |
| Storage loss minimization techniques | | | | | | | | | | |
| Value addition | 3 | 52 | 18 | 70 | 15 | 10 | 25 | 67 | 28 | 9: |
| Women empowerment | | | | | | | | | | |
| Location specific drudgery production | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | |
| Women and child care | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Agril. Engineering | | | | | | | | | | |
| Farm machinery and its maintenance | | | | | | | | | | |
| Installation and maintenance of micro irrigation systems | | | | | | | | | | |
| Use of Plastics in farming practices | | | | | | | | | | |
| Production of small tools and implements | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | |
| Small scale processing and value addition | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Plant Protection | | | | | | | | | | |
| Integrated Pest Management | | | | | | | | | | |
| Integrated Pest and Disease Management | 3 | 50 | 9 | 59 | 12 | 2 | 14 | 62 | 11 | 73 |
| Bio-control of pests and diseases | | | | | | | | | | |
| Production of bio control agents and bio pesticides | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |

| | No. of | | | | | No. of Participa | nts | | | |
|---|---------|------|---------|-------|------|------------------|-------|------|-------------|-------|
| Area of training | Courses | | General | | | SC/ST | | | Grand Total | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Fisheries | | | | | | | | | | |
| Integrated fish farming | | | | | | | | | | |
| Carp breeding and hatchery management | | | | | | | | | | |
| Carp fry and fingerling rearing | | | | | | | | | | |
| Composite fish culture | | | | | | | | | | |
| Hatchery management and culture of freshwater prawn | | | | | | | | | | |
| Breeding and culture of ornamental fishes | | | | | | | | | | |
| Portable plastic carp hatchery | | | | | | | | | | |
| Pen culture of fish and prawn | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | |
| Edible oyster farming | | | | | | | | | | |
| Pearl culture | | | | | | | | | | |
| Fish processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Production of Inputs at site | | | | | | | | | | |
| Seed Production | | | | | | | | | | |
| Planting material production | | | | | | | | | | |
| Bio-agents production | | | | | | | | | | |
| Bio-pesticides production | | | | | | | | | | |
| Bio-fertilizer production | | | | | | | | | | |
| Vermi-compost production | | | | | | | | | | |
| Organic manures production | | | | | | | | | | |
| Production of fry and fingerlings | | | | | | | | | | |
| Production of Bee-colonies and wax sheets | | | | | | | | | | |
| Small tools and implements | | | | | | | | | | |
| Production of livestock feed and fodder | | | | | | | | | | |
| Production of Fish feed | | | | | | | | | | |
| Mushroom production | 2 | 45 | 10 | 55 | 0 | 9 | 9 | 0 | 0 | 64 |

| | | | | | | | | | | 50 |
|---|---------|------|---------|-------|------|------------------|-------|------|-------------|-------|
| | No. of | | | | | No. of Participa | nts | | | |
| Area of training | Courses | | General | | | SC/ST | | | Grand Total | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Apiculture | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| CapacityBuilding and Group Dynamics | | | | | | | | | | |
| Leadership development | | | | | | | | | | |
| Group dynamics | | | | | | | | | | |
| Formation and Management of SHGs | | | | | | | | | | |
| Mobilization of social capital | | | | | | | | | | |
| Entrepreneurial development of farmers/youths | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Agro-forestry | | | | | | | | | | |
| Production technologies | | | | | | | | | | |
| Nursery management | | | | | | | | | | |
| Integrated Farming Systems | | | | | | | | | | |
| Others (Pl. specify) | | | | | | | | | | |
| Sericulture | | | | | | | | | | |
| Integrated crop management | 3 | 70 | 4 | 74 | 14 | 0 | 14 | 84 | 4 | 88 |
| Double hybrid | 1 | 46 | 0 | 46 | 7 | 0 | 7 | 46 | 7 | 53 |
| TOTAL | 27 | 579 | 63 | 499 | 97 | 21 | 109 | 491 | 62 | 760 |

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

| | No. of | | | | | No. of Participar | its | | | |
|--|---------|------|---------|-------|------|-------------------|-------|------|-------------|-------|
| Area of training | Courses | | General | - | | SC/ST | | | Grand Total | |
| Cuan Duaduation | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Crop Production | | | | | | | | | | |
| Weed Management | | | | | | | | | | |
| Resource Conservation Technologies | | | | | | | | | | |
| Cropping Systems | | | | | | | | | | |
| Crop Diversification | | | | | | | | | | |
| Integrated Farming | | | | | | | | | | |
| Micro Irrigation/Irrigation | | | | | | | | | | |
| Seed production | 1 | 15 | 14 | 29 | 0 | 0 | 0 | 15 | 14 | 29 |
| Nursery management | | | | | | | | | | |
| Integrated Crop Management | 4 | 122 | 3 | 125 | 24 | 0 | 24 | 146 | 3 | 149 |
| Soil and Water Conservation | | | | | | | | | | |
| Integrated Nutrient Management | | | | | | | | | | |
| Production of organic inputs | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Horticulture | | | | | | | | | | |
| a) Vegetable Crops | | | | | | | | | | |
| Production of low value and high volume crop | | | | | | | | | | |
| Off-season vegetables | | | | | | | | | | |
| Nursery raising | 1 | 13 | 0 | 13 | 2 | 0 | 2 | 13 | 2 | 15 |
| Exotic vegetables | | | | | | | | | | |
| Export potential vegetables | | | | | | | | | | |
| Grading and standardization | | | | | | | | | | |
| Protective cultivation | | | | | | | | | | |
| Integrated Crop Management | 2 | 36 | 1 | 37 | 3 | 0 | 3 | 39 | 1 | 40 |
| b) Fruits | | | | | | | | | | |
| Training and Pruning | | | | | | | | | | |

| | | | | | | | | | | 52 |
|---|---------|------|---------|-------|------|------------------|-------|------|-------------|-------|
| | No. of | | | | | No. of Participa | nts | | | |
| Area of training | Courses | | General | 1 | | SC/ST | 1 | | Grand Total | |
| Layout and Management of Orchards | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| | | | | | | | | | | |
| Cultivation of Fruit | | | | | | | | | | |
| Management of young plants/orchards | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | |
| Export potential fruits | | | | | | | | | | |
| Micro irrigation systems of orchards | | | | | | | | | | |
| Plant propagation techniques | | | | | | | | | | |
| Integrated crop management | 1 | 12 | 0 | 12 | 3 | 0 | 3 | 15 | 0 | 15 |
| c) Ornamental Plants | | | | | | | | | | |
| Nursery Management | | | | | | | | | | |
| Management of potted plants | | | | | | | | | | |
| Export potential of ornamental plants | | | | | | | | | | |
| Propagation techniques of Ornamental Plants | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| d) Plantation crops | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | |
| Integrated crop management | 1 | 57 | 8 | 65 | 4 | 0 | 4 | 61 | 8 | 69 |
| e) Tuber crops | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| f) Spices | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| g) Medicinal and Aromatic Plants | | | | | | | | | 1 | |

| | | | | | | | | | | 53 |
|--|---------|------|---------|-------|------|------------------|-------|------|-------------|-------|
| | No. of | | | | | No. of Participa | nts | | | |
| Area of training | Courses | | General | | | SC/ST | | | Grand Total | |
| Nursery management | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Production and management technology | | | | | | | | | | |
| Post harvest technology and value addition | | | | | | | | | | |
| | | | | | | | | | | |
| Others (pl.specify): | | | | | | | | | | |
| Soil Health and Fertility Management | | | | | | | | | | |
| Soil fertility management | 4 | 69 | 2 | 71 | 14 | 0 | 14 | 83 | 2 | 85 |
| Integrated water management | | | | | | | | | | |
| Integrated nutrient management | | | | | | | | | | |
| Production and use of organic inputs | 3 | 52 | 1 | 53 | 8 | 0 | 8 | 60 | 1 | 61 |
| Management of Problematic soils | 1 | 24 | 3 | 27 | 5 | 2 | 7 | 29 | 5 | 34 |
| Micro nutrient deficiency in crops | | | | | | | | | | |
| Nutrient use efficiency | | | | | | | | | | |
| Balanced use of fertilizers | | | | | | | | | | |
| Soil and water testing | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Livestock Production and Management | | | | | | | | | | |
| Dairy Management | | | | | | | | | | |
| Poultry Management | | | | | | | | | | |
| Piggery Management | | | | | | | | | | |
| Rabbit Management | | | | | | | | | | |
| Animal Nutrition Management | | | | | | | | | | |
| Animal Disease Management | | | | | | | | | | |
| Feed and Fodder technology | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Home Science/Women empowerment | | | | | | | | | | |
| Household food security by kitchen gardening and nutrition gardening | 2 | 0 | 39 | 39 | 0 | 4 | 4 | 0 | 43 | 43 |

| | No. of | | | | | No. of Participa | nts | | | |
|---|---------|------|---------|-------|------|------------------|-------|------|-------------|-------|
| Area of training | Courses | | General | | | SC/ST | | | Grand Total | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| 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 | | | | | | | | | | |
| Women empowerment | | | | | | | | | | |
| Location specific drudgery production | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | |
| Women and child care | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Agril. Engineering | | | | | | | | | | |
| Farm machinery and its maintenance | | | | | | | | | | |
| Installation and maintenance of micro irrigation systems | | | | | | | | | | |
| Use of Plastics in farming practices | | | | | | | | | | |
| Production of small tools and implements | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | |
| Small scale processing and value addition | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |
| Plant Protection | | | | | | | | | | |
| Integrated Pest Management | | | | | | | | | | |
| Integrated Pest and Disease Management | 8 | 108 | 5 | 113 | 17 | 3 | 20 | 125 | 8 | 133 |
| Bio-control of pests and diseases | | | | | | | | | | |
| Production of bio control agents and bio pesticides | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | |

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

| Integrated Farming Systems Others (Pl. specify) | | | | | |
|---|------|--|--|--|--|
| | | | | | |
| Nursery management | | | | | |
| Production technologies | | | | | |
| Agro-forestry | | | | | |
| Entrepreneurial development of farmers/youths Others (pl.specify) | | | | | |
| | | | | | |
| Mobilization of social capital | | | | | |
| Formation and Management of SHGs | | | | | |
| Group dynamics | | | | | |
| Leadership development | | | | | |
| Others (pl.specify) CapacityBuilding and Group Dynamics | | | | | |
| Apiculture | | | | | |
| Mushroom production | | | | | |
| Production of Fish feed | | | | | |
| Production of livestock feed and fodder | | | | | |
| Small tools and implements | | | | | |
| Production of Bee-colonies and wax sheets | | | | | |
| Production of fry and fingerlings | | | | | |
| Organic manures production | | | | | |

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

| | No. of | | | | No. o | f Participants | | | | |
|---|---------|------|---------|-------|-------|----------------|-------|------|-------------|-------|
| Area of training | Courses | | General | | | SC/ST | | | Grand Total | |
| Nursery Management of Horticulture crops | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Training and pruning of orchards | | | | | | | | | | |
| Protected cultivation of vegetable crops | | | | | | | | | | |
| Commercial fruit production | | | | | | | | | | |
| Integrated farming | | | | | | | | | | |
| Seed production | | | | | | | | | | |
| Production of organic inputs | 1 | 13 | 1 | 14 | 1 | 0 | 1 | 14 | 1 | 15 |
| Planting material production | | | | | | | | | | |
| Vermi-culture | | | | | | | | | | |
| Mushroom Production | | | | | | | | | | |
| Bee-keeping | | | | | | | | | | |
| Sericulture | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | |
| Value addition | | | | | | | | | | |
| Small scale processing | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | |
| Tailoring and Stitching | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | |
| Dairying | | | | | | | | | | |
| Sheep and goat rearing | | | | | | | | | | |
| Quail farming | | | | | | | | | | |
| Piggery | | | | | | | | | | |
| Rabbit farming | | | | | | | | | | |
| Poultry production | | | | | | | | | | |
| Ornamental fisheries | | | | | | | | | | |

| Composite fish culture | | I | I | I | I | I | l | I | I | 50 |
|--|---|----|---|----|---|---|---|----|---|----|
| | | | | | | | | | | |
| Freshwater prawn culture | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | |
| Pearl culture | | | | | | | | | | |
| Cold water fisheries | | | | | | | | | | |
| Fish harvest and processing technology | | | | | | | | | | |
| Fry and fingerling rearing | | | | | | | | | | |
| Any other (pl.specify) | | | | | | | | | | |
| TOTAL | 1 | 13 | 1 | 14 | 1 | 0 | 1 | 14 | 1 | 15 |

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

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

58

| | | | | | | | | | | 59 |
|--|---|---|---|---|---|---|---|---|---|----|
| 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) | | | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

7.E.Training programmes for Extension Personnel including sponsored training programmes (on campus)

| | No. of | | No. of Participants | | | | | | | | | | |
|---|---------|---------|---------------------|-------|-------|--------|-------|-------------|--------|-------|--|--|--|
| Area of training | Courses | General | | | SC/ST | | | Grand Total | | | | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total | | | |
| Productivity enhancement in field crops | | | | | | | | | | | | | |
| Integrated Pest Management | | | | | | | | | | | | | |
| Integrated Nutrient management | | | | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | | | | |
| Protected cultivation technology | | | | | | | | | | | | | |
| Production and use of organic inputs | 1 | | | | | | | | | | | | |

| | | _ | | _ | _ | _ | _ | _ | | 60 |
|---|---|----|----|----|---|----|----|----|----|----|
| 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 | 1 | 0 | 21 | 21 | 0 | 8 | 8 | 0 | 29 | 29 |
| 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 | | | | | | | | | | |
| Value addition | 1 | 0 | 34 | 34 | 0 | 11 | 11 | 0 | 45 | 45 |
| Precision farming in horticultural crops | 1 | 12 | 8 | 0 | 0 | 0 | 0 | 12 | 8 | 20 |
| Total | 3 | 12 | 63 | 55 | 0 | 19 | 19 | 12 | 82 | 94 |

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

| | No. of Participants | | | | | | | | | | | |
|---|---------------------|------|---------|-------|-------|--------|-------|-------------|--------|-------|--|--|
| Area of training | No. of Courses | | General | | SC/ST | | | Grand Total | | | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total | | |
| Productivity enhancement in field crops | | | | | | | | | | | | |
| Integrated Pest Management | | | | | | | | | | | | |
| Integrated Nutrient management | | | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | | | |
| Protected cultivation technology | | | | | | | | | | | | |
| Production and use of organic inputs | | | | | | | | | | | | |
| Care and maintenance of farm machinery and implements | | | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | | | |
| Formation and Management of SHGs | | | | | | | | | | | | |
| Women and Child care | | | | | | | | | | | | |
| Low cost and nutrient efficient diet designing | | | | | | | | | | | | |
| Group Dynamics and farmers organization | | | | | | | | | | | | |

| | | | | | | | | | | . 01 |
|---------------------------------------|---|---|---|---|---|---|---|---|---|------|
| Information networking among farmers | | | | | | | | | | |
| | | | | | | | | | | |
| Capacity building for ICT application | | | | | | | | | | |
| | | | | | | | | | | |
| Management in farm animals | | | | | | | | | | |
| Livestock feed and fodder production | | | | | | | | | | |
| I I | | | | | | | | | | |
| Household food security | | | | | | | | | | |
| Any other (pl.specify) | | | | | | | | | | |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

7.G. Sponsored training programmes conducted : Nil

| | | No. of Courses | | | | Ν | o. of Participa | rticipants | | | | |
|-------|---|-------------------|------|---------|-------|------|-----------------|------------|------|-------------|-------|--|
| S.No. | Area of training | | | 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 | | | | | | | | | | | |
| 1.c. | Others: Water management in Agriculture | | | | | | | | | | | |
| 2 | Production and value addition | | | | | | | | | | | |
| 2.a. | Fruit Plants | | | | | | | | | | | |
| 2.b. | Ornamental plants | | | | | | | | | | | |
| 2.c. | Spices crops | | | | | | | | | | | |
| 3. | Soil health and fertility management | | | | | | | | | | | |
| 4 | Production of Inputs at site | | | | | | | | | | | |
| 5 | Methods of protective cultivation | | | | | | | | | | | |
| 6 | Others (pl.specify) | | | | | | | | | | | |
| 7 | Post harvest technology and value addition | | | | | | | | | | | |
| 7.a. | Processing and value addition | | | | | | | | | | | |
| 7.b. | Others (pl.specify) | | | | | | | | | | | |
| 8 | Farm machinery | | | | | | | | | | | |
| 8.a. | Farm machinery, tools and implements | | | | | | | | | | | |
| 8.b. | Others (pl.specify) | | | | | | | | | | | |
| 9. | Livestock and fisheries | | | | | | | | | | | |
| 10 | Livestock production and management | | | | | | | | | | | |
| 10.a. | Animal Nutrition Management | | | | | | | | | | | |
| 10.b. | Animal Disease Management | | | | | | | | | | | |
| 10.c | Fisheries Nutrition | | | | | | | | | | | |
| 10.d | Fisheries Management | | | | | | | | | | | |
| 10.e. | Others (pl.specify) | | | | | | | | | | | |
| 11. | Home Science | | | | | | | | | | | |
| 11.a. | Household nutritional security | | | | | | | | | | | |
| 11.b. | Economic empowerment of women | | | | | | | | | | | |
| 11.c. | Drudgery reduction of women | | | | | | | | | | | |
| 11.d. | Others (pl.specify) | | | | | | | | | | | |
| 12 | Agricultural Extension | | | | | | | | | | | |
| 12.a. | CapacityBuilding and Group Dynamics | | | | | | | | | | | |
| 12.b. | Others (pl.specify) | | | | | | | | | | | |
| | Total | | | | | | | | | | | |

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

| | | No. of | of No. of Participants | | | | | | | | | | |
|-------|--|---------|------------------------|---------|-------|------|--------|-------|------|-------------|-------|--|--|
| S.No. | Area of training | Courses | | General | | | SC/ST | | | Grand Total | | | |
| | | | Male | Female | Total | Male | Female | Total | Male | Female | Total | | |
| 1 | Crop production and management | | | | | | | | | | | | |
| 1.a. | Commercial floriculture | | | | | | | | | | | | |
| 1.b. | Commercial fruit production | | | | | | | | | | | | |
| 1.c. | Commercial vegetable production | | | | | | | | | | | | |
| 1.d. | Integrated crop management | | | | | | | | | | | | |
| 1.e. | Organic farming | | | | | | | | | | | | |
| 1.f. | Others (pl.specify) | | | | | | | | | | | | |
| 2 | Post harvest technology and value addition | | | | | | | | | | | | |
| 2.a. | Value addition | | | | | | | | | | | | |
| 2.b. | Others (pl.specify) | | | | | | | | | | | | |
| 3. | Livestock and fisheries | | | | | | | | | | | | |
| 3.a. | Dairy farming | | | | | | | | | | | | |
| 3.b. | Composite fish culture | | | | | | | | | | | | |
| 3.c. | Sheep and goat rearing | | | | | | | | | | | | |
| 3.d. | Piggery | | | | | | | | | | | | |
| 3.e. | Poultry farming | | | | | | | | | | | | |
| 3.f. | Others (pl.specify) | | | | | | | | | | | | |
| 4. | Income generation activities | | | | | | | | | | | | |
| 4.a. | Vermi-composting | | | | | | | | | | | | |
| 4.b. | Production of bio-agents, bio-pesticides, | | | | | | | | | | | | |
| | bio-fertilizers etc. | | | | | | | | | | | | |
| 4.c. | Repair and maintenance of farm machinery | | | | | | | | | | | | |
| | and implements | | | | | | | | | | | | |
| 4.d. | Rural Crafts | | | | | | | | | | | | |
| 4.e. | Seed production | | | | | | | | | | | | |
| 4.f. | Sericulture | | | | | | | | | | | | |
| 4.g. | Mushroom cultivation | | | | | | | | | | | | |
| 4.h. | Nursery, grafting etc. | | | | | | | | | | | | |
| 4.i. | Tailoring, stitching, embroidery, dying etc. | | | | | | | | | | | | |
| 4.j. | Agril. para-workers, para-vet training | | | | | | | | | | | | |
| 4.k. | Others (pl.specify) | | | | | | | | | | | | |
| 5 | Agricultural Extension | | | | | | | | | | | | |
| 5.a. | Capacity building and group dynamics | | | | | | | | | | | | |
| 5.b. | Others (pl.specify) | | | | | | | | | | | | |
| | Grand Total | | | | | | | | | | | | |

7.F. Details of Skill Training Programmes carried out by KVKs under ASCI

| 5 | . Name of Job Role | Date | Date of Close | Total | | No. of Participants | | | | | | Date of | No of Participants passed assessment | | |
|---|--------------------|------------|---------------|--------------|------|---------------------|-------|------|--------|-------|------|------------|---|------------|--|
| N | 0. | of Start | | Participants | | General | | | SC/ST | | G | rand Tot | tal | Assessment | |
| | | | | | Male | Female | Total | Male | Female | Total | Male | Female | Total | | |
| 1 | Organic Grower | 17.08.2020 | 10.09.2020 | 20 | 9 | 8 | 17 | 2 | 1 | 3 | 11 | 9 | 20 | Yet to be | |

PART VIII – EXTENSION ACTIVITIES (2020)

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

| Nature of Extension Programme | No. of Programmes | No. of | f Participants (G | eneral) | N | lo. of Participar SC / ST | nts | No.of extension personnel | | | |
|--|-------------------|--------|-------------------|---------|------|------------------------------|-------|---------------------------|--------|-------|--|
| 8 | 8 | Male | Female | Total | Male | Female | Total | Male | Female | Total | |
| Field Day | 12 | 272 | 66 | 338 | 71 | 23 | 94 | 27 | 9 | 36 | |
| Kisan Mela | 2 | 855 | 322 | 1177 | 507 | 338 | 845 | 76 | 21 | 97 | |
| Kisan Ghosthi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Exhibition | 8 | 807 | 345 | 1152 | 203 | 78 | 281 | 224 | 79 | 303 | |
| Film Show | 22 | 167 | 51 | 218 | 81 | 35 | 116 | 21 | 12 | 33 | |
| Method Demonstrations | 16 | 266 | 51 | 317 | 52 | 17 | 69 | 21 | 12 | 33 | |
| Farmers Seminar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Workshop | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Group meetings | 21 | 233 | 78 | 311 | 67 | 26 | 93 | 27 | 18 | 45 | |
| Lectures delivered as resource persons | 35 | 655 | 262 | 917 | 185 | 112 | 297 | 71 | 47 | 118 | |
| Newspaper coverage | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Radio talks | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| TV talks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Popular articles | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Extension Literature | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Advisory Services | 739 | 629 | 110 | 739 | 211 | 159 | 370 | 41 | 29 | 17 | |
| Scientific visit to farmers field | 166 | 714 | 271 | 985 | 176 | 95 | 271 | 107 | 37 | 144 | |
| Farmers visit to KVK | 739 | 632 | 107 | 739 | 183 | 117 | 300 | 0 | 0 | 0 | |
| Diagnostic visits | 8 | 157 | 65 | 222 | 35 | 28 | 63 | 40 | 17 | 57 | |
| Exposure visits | 5 | 312 | 38 | 350 | 65 | 11 | 76 | 0 | 0 | 0 | |
| Ex-trainees Sammelan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Soil health Camp | 2 | 92 | 15 | 107 | 18 | 10 | 28 | 8 | 8 | 16 | |
| Animal Health Camp | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Agri mobile clinic | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Farm Science Club Conveners meet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| mKisan massages | 48 | 43798 | 3436 | 47234 | 3714 | 2947 | 6661 | 197 | 70 | 217 | |
| Self Help Group Conveners meetings | 18 | 0 | 211 | 211 | 0 | 52 | 52 | 0 | 0 | 0 | |
| Mahila Mandals Conveners meetings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Celebration of important days | 9 | 231 | 42 | 273 | 41 | 16 | 57 | 21 | 8 | 29 | |
| Any Other (Specify): Human Health | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| camp | | | | | | | | | | | |
| Total | 1877 | 50911 | 5452 | 54363 | 5584 | 4084 | 9568 | 881 | 367 | 1145 | |

8.2 Special Extension Programmes : Nil

| Natura of Extansion Programma | Nature of Extension Programme Date(s) conducted | | No. of farmers (General) | | | No. of farmers SC / ST | | No.of extension personnel | | |
|--------------------------------|---|------|--------------------------|-------|------|---------------------------|-------|---------------------------|--------|-------|
| Nature of Extension 11 ogramme | Date(s) conducted | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Poshan Abiyan | 17.09.2020 | 11 | 61 | 72 | 0 | 17 | 17 | 0 | 20 | 109 |
| Swacchatha Pakwad | 16.12.2020 to 31.12.2020 | 153 | 71 | 224 | 11 | 2 | 13 | 18 | 0 | 18 |
| Any other, Pl. specify | | | | | | | | | | |

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIAL (2020)

9.A. Production of seeds by the KVKs

| Crop category | Name of the crop | Name of the Variety | Name of the Hybrid | Quantity of seed (q) | Value (Rs) | Number of farmers to whom provided |
|---------------------|----------------------|------------------------|-----------------------|-------------------------|---------------|---------------------------------------|
| Cereals (crop wise) | Paddy | Jaya | - | 75 | 142678 | Under processing |
| Oilseeds | | | | | | |
| Pulses | Greengram, | KKM-3 | | 13.25 | - | 40 |
| | Blackgram, | LBG-791 | | 86.90 | - | 58 |
| | Cowpea | KBC-9 | | 13.8 | - | 60 |
| | Redgram | BRG-3 | | 17.3 | - | 42 |
| Commercial crops | Sugarcane | CoVC-0517 | - | 22000 sets | 11000 | 16 |
| Vegetables | Drumstick | PKM-1 | - | 3919 | 58785 | 250 |
| Flower crops | | | | | | |
| Spices | | | | | | |
| Fodder crop seeds | CO-3 | CO-3 | - | 5000 rotslips | 2500 | 35 |
| Fiber crops | | | | | | |
| Forest Species | | | | | | |
| Others (specify) | Chakramuni seedlings | Local | - | 3000 seedlings | 30000 | 600 |
| | Sesbania | - | - | 500 Seedlings | 5000 | 25 |
| | Cocoons | - | Double hybrid | 101 k | 44000 | - |
| | Mulberry | V-1 | - | 2300 saplings | 6900 | 9 |
| | Paddy straw | Jaya | - | 1 t | 3000 | 1 |
| Total | | | | | 303863 | |

9.B. Production of planting material by the KVKs

| Crop category | Name of the crop | Variety | Hybrid | Number | Value (Rs.) | Number of farmers to whom provided |
|------------------------|------------------|-------------|--------|--------|-------------|---------------------------------------|
| Commercial | Mulberry | V-1 | - | 2300 | 6900 | 80 |
| Vegetable seedlings | Curry leaf | Suhasini | - | 79 | 1580 | 50 |
| | Drumstick | PKM-1 | - | 3919 | 58785 | 300 |
| Fruits | Рарауа | Redlady | - | 152 | 3041 | 10 |
| Ornamental plants | - | - | - | | | |
| Medicinal and Aromatic | - | - | - | - | - | - |
| Plantation | Coconut seedling | Tiptur tall | - | 1732 | 129900 | 17 |
| | Lemon | Balaji | - | 79 | 1580 | 10 |
| | Sugarcane set | VCF-571 | - | 22000 | 11000 | 2 |
| Spices | | | | | | |
| Tuber | - | - | - | | | |
| Fodder crop saplings | - | - | - | 5000 | 2500 | 50 |
| Forest Species | - | - | - | | | |
| Others(specify) | - | - | - | | | |
| Total | - | - | - | 35261 | 215286 | 519 |

9.C. Production of Bio-Products

| Bio Products | Name of the bio-product | Quantity (kg) | Value (Rs.) | Number of farmers to whom provided |
|-----------------------------------|-------------------------|---------------|-------------|------------------------------------|
| Bio Fertilizers | - | - | - | - |
| Bio-pesticide | - | - | - | - |
| Bio-fungicide | Pseudomonas | 451 | 44500 | 250 |
| | Trichoderma | 445 | 44500 | 250 |
| Bio Agents | | | | |
| Others (specify): Micro Nutrients | Banana Special | 540 | 108000 | 200 |
| | Vegetable Special | 2216 | 443200 | 2000 |
| Home care product | Ragi malt | 51 | 10110 | 51 |
| Total | | 3703 | 650310 | 2751 |

9.D. Production of livestock: Nil

| Particulars of Livestock | Name of the breed | Number | Value (Rs.) | Number of farmers to whom provided |
|--------------------------|-------------------|--------|-------------|------------------------------------|
| Dairy animals | | | | |
| Cows | | | | |
| Buffaloes | | | | |
| Calves | | | | |

| | | 66 |
|---------------------------|--|----|
| Others (Pl. specify) | | |
| Poultry | | |
| Broilers | | |
| Layers | | |
| Duals (broiler and layer) | | |
| Japanese Quail | | |
| Turkey | | |
| Emu | | |
| Ducks | | |
| Others (Pl. specify) | | |
| Piggery | | |
| Piglet | | |
| Others (Pl.specify) | | |
| Fisheries | | |
| Fingerlings | | |
| Others (Pl. specify) | | |
| Total | | |

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

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

(A) KVK Newsletter: ARAMBHA

Date of start: January 2008, Periodicity: Quarterly, Copies printed in each issue: e-Newsletter

(B) Literature developed/published

| Item | Number |
|-----------------------------------|--------|
| Research papers- International | 1 |
| Research papers- National | 1 |
| Technical reports | - |
| Technical bulletins | 1 |
| Popular articles - English | - |
| Popular articles – Local language | 2 |
| Extension literature: Folder | 5 |
| Others: Abstracts | 2 |
| TOTAL | 12 |

10.B. Details of Electronic Media Produced

| | Total Details of Electronic Freduction | | | | | | |
|--------|--|-------------------------|--|--|--|--|--|
| S. No. | Type of media | Title | Details | | | | |
| | CD / DVD | - | - | | | | |
| | Mobile Apps | - | - | | | | |
| | Social media groups with KVK as Admin | KVK Mandya, DAMU Mandya | 48 Whatsapp group created around 9600 farmers | | | | |
| | | | Sharing of information relating to Agriculture, weather forecasting and allied aspects | | | | |
| | Facebook account name | KVK Mandya | 217 friends including KVKs, Officials of ATARI, Official of University and Agriculture | | | | |
| | | | Departments and farmers | | | | |
| | | | Posting of important events photos, information and also sharing important information | | | | |
| | | | related to Agriculture | | | | |
| | Instagram account name | - | - | | | | |

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

Integrated Farming System for Sustainable livelihood

Sri Suresh from Karekura village, Srirangapatna taluk having 9th passed and aged 34 years is a very enthusiastic farmer having 1.5 acres of land in which he is growing Banana, Coconut, vegetables and Mango also doing fishery, poultry, dairy and apiculture in his farm.

He has having a pond of0.25 acre area and doing fishery in which he is rearing2000 nos. Catla, Rohu and Common carp species. His income from fish selling is about Rs. 75,000 @ Rs.100 per Kg of fish. The pond is covered using mesh of size 50ft length and15ft width on which he is rearing local poultry birds (300 Nos.).The waste of these birds is a source of food to the fish. After rearing the birds for 4 to 5 months he sells them @ Rs. 250 per Kg. and eggs @ Rs.10 per egg. He is earning Rs. 90,000 from these birds annually. In remaining 1.25 acre of area he is growing wide range of horticulture crops. He is having 200 banana plants from which he has made Rs. 50,000 profit. In addition to banana he is having Coconut (50 Nos.), Mango (17 nos.), Sapota (35 Nos.), Jack (6 Nos.), rose apple, guava, orange, Moosambi, Custard apple, Jamoon, citrus species (nimbu, chakotha,) etc. By selling tender coconut and coconuts he is earning around Rs. one lakh and from mango he is getting Rs. 30,000 per annum. On the bunds he is having Silver oak (30 Nos.), Teak (60 Nos.), Drum stick (20Nos.), Arecanut (150Nos.), Black pepper (100 Nos.), Beetle vine (5 Nos.) and Amla (6 Nos.) all these were planted 6 years back. With the best use of space on the bunds he has earned Rs. 60,000from these crops. From past three years he is giving importance for organic farming. He is using FYM, vermicompost and poultry manure for the crops. The farm waste is used as mulch and also pulses are grown in between as live mulch which also improves soil fertility. The Cowshed waste and crop residue is being used to produce quality compost and vermicompost. He is also having Jeevamruta unit and prepares Jeevamrutha(for one acre) using 10 kgs cow dung, 10 liters cow urine, 2 kgs black jaggery, 2kgs pulse flour (any pulse) and 0.5 kg soil mixing with 200 liters of water and this is given to the crops through irrigation water. Azolla unit is also maintained and used as feed for the fish and poultry birds. As part of water management he is having farm pond for

During 2014-15 he is awarded with District level best farmer award and Taluk level best Farm youth award during 2015 by UAS, Bangalore. He has given Radio talk, TV programmes and served as resource person on Fish Farming. On an average around 2000 farmers from Mysore, Hassan, Bangalore, Chamarajanagar districts and other taluk of Mandya district are visiting the farm every year. He is a role model to the rural youths who are migrating to towns and cities in search of job.

Drum seeding in Hybrid Paddy: Technology for higher yield and income

Paddy is an important food crop in Mandya district of Cauvery command area cultivated mainly by small and marginal holding farmers. The paddy is cultivated in an area of 58,487 hectares in the district having total production of 1,73,548 tons with an average productivity of 3635 kg per hectare. Use of available varieties, mono cropping, faulty cultivation practices and submerged condition are leading to low yield and deterioration of soil quality. Non availability of skilled and efficient labours at critical stages of farm operations like transplanting, weeding etc., and delayed planting, reduced plant population and inefficient weed control is also affecting the crop yield. The change in the climatic conditions in addition to the above factors is making paddy cultivation less remunerative and cumbersome in turn making the farmers to think agriculture as a non profitable enterprise and migrating to cities in search of better livelihood.

Hybrid paddy with higher yield potential and machineries for small holding is the need of the hour which can solve the crisis of the paddy farmers. With this background the intervention planned by KVK, Mandya was to introduce basket of technologies like Drum Seeding, hybrid along with cono weeder (manually as well as power operated weeder) and recommended package of practices. Drum seeder is the simple tool most suitable for farmers with small landholding which is cost effective, durable, easy for transportation. It is a manually operated tool which drops 5-6 pre germinated seeds at 4'' spacing in 9'' rows. Unlike mechanical transplanter, drum seeder does not require skilled person and suitable for small plots and undulated lands. Further, it does not require rising nursery which is skill based and critical for efficiency transplanting machine transplanting. The other advantages of drum seeding is that drudgery, cost of raising seedling in field and transplanting is completely avoided, saving in water (for raising nursery and 10 crop days in main field because of the early maturity) and saving 50 percent of recommended seed material (67.5 kg / ha). However care should be taken to level the land as much as possible and open small drains in field to drain standing water up to 10 days to facilitate germination. Other cultivation aspects remain same as of normal practice. The hybrid paddy with medium crop duration (130-135 days) and high yield (85 q/ha) was another intervention for better yield and income.

Initially, both the technologies were not compatible as the drum seeder need 40-50 kg paddy to cover an hectare area where as the recommended seed rate for hybrid paddy is 20 kg per hectare. To make these two interventions compatible On farm testing (OFT) was planned and conducted for three years from 2009-10 to 2011-12 in the farmers field of Sampalli, Kattedoddi, Hemmanahally and KVK farm. Later the technology was demonstrated in larger area as Frontline demonstration (FLD) for three years from 2012-13 to 2014-15 in Chandagalu, Kurikoppalu, Kannahatti and Mallanayakana katte villages of Mandya taluk, Devarahalli of Maddur taluk with 21 farmers in 11 hectare area. Other Extension activities for effective implementation and spread of the technology were also conducted (Table-1).

| Sl. No. | Activity | Number | Number of farmers |
|---------|------------------------------|--------|-------------------|
| 1. | On farm testing | 13 | 13 |
| 2. | Front line demonstration | 21 | 21 |
| 3. | Training On campus | 13 | 421 |
| | Extension functionaries | 2 | 68 |
| | Off campus | 28 | 454 |
| 4. | Group discussion / meetings | 14 | 178 |
| 5. | Field visits | 29 | 452 |
| 6. | Field day | 7 | 642 |
| 7. | Method demonstration | 22 | 1881 |
| 8. | Farmer-Scientist interaction | 2 | 135 |
| 9. | Exhibitions | 19 | - |
| 10. | News paper coverage | 10 | - |
| 11. | Folder/ poster/ manual | 5 | - |
| 12. | CD-Short film | 1 | - |
| 13. | Radio programme | 1 | - |
| 14. | TV programme | 2 | - |

Table 1: Extension activities implemented by KVK, Mandya on Drum Seeding of Hybrid paddy

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The farmers were facilitated with critical inputs like drum seeder, cono weeeder and hybrid paddy seeds to make the farmer feel the technology as easily available and adoptable in field condition to address the issue of labour shortage and realise higher yield. Large scale demonstrations on drum seeding were conducted in 115 hectares in association with RKVY- Water Technology Centre and in 8 hectares in collaboration with Karnataka State Department of Agriculture.

Out put

The results of the three years OFT revealed that drum seeding of hybrid paddy technique resulted in increased crop yield, save labour and enhance the profit from paddy cultivation (Table-2). The district average productivity of paddy with existing varieties is 36.35 q / ha and with the introduction of hybrid paddy (KRH-2) it increased to 61.05 q / ha with recommended planting method (i.e. raising nursery and transplanting single seedling per hill), further with drum seeding the yield realised was higher by 13.5 percent (69.29 /ha) during On farm testing (2009-10 to 2011-12). The technology has been accepted and included in the package of practice in field crops of UAS (B).

The improved paddy hybrid KRH -4 was introduced during FLD further enhanced the yield to 75.6 q/ha. The results of demonstration indicated that drum seeding of hybrid paddy yielded 10.12 per cent higher yield compared to hand transplanting. There was 107 per cent increased yield with drum seeded hybrid paddy compared district average yield with varieties and manual planting from 36.35 q/ha to 75.6 /ha (Table-3).

With drum seeding technique there was considerable decrease in labour requirement i.e 37.5 man days per hectare (Table-4) which reduced the dependency on labours considerably. The pest and disease incidence found was lesser in drum seeded crop. The reason could be micro climate in the crop canopy was not much favourable for multiplication and sustenance of insect and pathogens as there is free movement of air due to line planting compared to random planting widely practiced.

Table 2: Performance of drum seeding of Hybrid paddy in comparison to recommended practice (Hand transplanting) under OFT.

| | No. of | | Recommended | ded practice (Hand transplanting) | | | Alternate practice (Drum seeding) | | | | |
|---------|---------|--------|-------------|-----------------------------------|------------|-------|-----------------------------------|------------|--------------|------------|-------|
| Year | trials | Yield | Gross cost | Gross return | Net Return | BC | Yield | Gross cost | Gross return | Net Return | BC |
| | ti iais | (q/ha) | (Rs.) | (Rs.) | (Rs.) | Ratio | (q/ha) | (Rs.) | (Rs.) | (Rs.) | Ratio |
| 2009-10 | 3 | 52.36 | 23150 | 57596 | 34446 | 2.49 | 58.89 | 22100 | 64779 | 42679 | 2.93 |
| 2010-11 | 5 | 62.00 | 22693 | 62000 | 39307 | 1.73 | 70 | 20053 | 70000 | 49947 | 2.49 |
| 2011-12 | 5 | 64.93 | 27314 | 71423 | 44109 | 2.61 | 74.14 | 21464 | 81554 | 60090 | 3.79 |
| | Average | 61.055 | 25117.8 | 65610.5 | 40492.8 | 2.36 | 69.29 | 21270.3 | 74471.75 | 53201.5 | 3.25 |

Table 3: Yield and economics of demonstration on drum seeding in comparison to hand transplanting of Hybrid paddy.

| | Yield (q/ha) | | | *Economics (Rs./ha) | | | | | | | |
|---------|--------------|--------------|---------------|------------------------------|--------------|------------|------|----------------------------|--------------|------------|------|
| Year | | | | Demonstration (Drum seeding) | | | | Check (Hand transplanting) | | | |
| 1000 | Demo | Check | % Increase | Gross Cost | Gross Return | Net Return | BCR | Gross Cost | Gross Return | Net Return | BCR |
| 2012-13 | 67.2 | 62.26 | 7.93 | 24953.0 | 96220.0 | 71267.0 | 3.85 | 31453.0 | 89051.0 | 57598.0 | 2.83 |
| 2013-14 | 76.25 | 67 | 13.81 | 29004.5 | 108575.0 | 79570.5 | 3.74 | 36159.5 | 95060.0 | 58900.5 | 2.63 |
| 2014-15 | 83.3 | 76.7 | 8.63 | 32003.0 | 131480.0 | 99477.0 | 3.10 | 37050.0 | 120757.5 | 83687.5 | 2.25 |
| Average | 75.6 | 68. 7 | 10.12 | 28653.5 | 112091.7 | 83438.2 | 3.56 | 34887.5 | 101622.8 | 66728.7 | 2.57 |

Table 4: Ancillary parameter as influenced by drum seeding of hybrid paddy.

| Treatments | Plant population (No./sq.m) | No. of tillers/ plant | Grains / panicle (No.) | Labour saving (No./ ha) |
|----------------------------|--------------------------------|-----------------------|---------------------------|----------------------------|
| Demo (Drum seeding) | 41.67 | 21.67 | 330.67 | 37.5 |
| Check (Hand transplanting) | 34.67 | 17.67 | 292.33 | 0 |

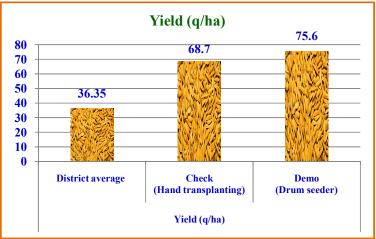


Fig 1: Comparison of paddy Yield in drum seeding

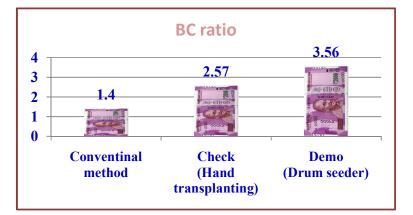


Fig 2: Economics of drum seeding

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The economic analysis of paddy cultivation shows that average returns per rupee invested under regular paddy variety and transplanting method is one rupee forty paisa (B:C ratio 1.4). The results of the FLD (2012-13 to 2014-15) with drum seeded KRH-4 hybrid paddy showed the average returns per rupee invested was higher i.e. three rupees fifty one paise (B:C ratio 3.51). The increase in returns per rupee invested is rupees 2.11 (Table-3). This could be attributed to lower cost of production i.e. for crop establishment (no investment on nursery raising and transplanting), reduced labour force for weeding, reduce cost on fertilizers (balanced nutrition) and plant protection activities (lesser incidence of pest and diseases) coupled with higher returns due to increase in the crop yield.

The drum seeding of hybrid paddy technology demonstrated indicate that there could be possibility of increasing grain yield to the tune of 39.25 q per hectare compared to present district average yield with existing production practices.

The results of knowledge test indicated 79 per cent increase in the knowledge level of farmers on the drum seeding practices (Table-5). In case of skill on drum seeding of paddy, land preparation, soaking and incubation of seeds for germination, water and weed management in the initial stages are the important skills and it was found that there was 90 per cent gain in the skill of the farmers (Table-6).

| | | | N=30 | | | |
|--|---------|------------------|----------|----------------|--------------|--|
| | Sl. No. | Average knowledg | ge score | Vnouladao agin | Percent gain | |
| | | Before | After | Knowledge gain | | |
| | 1. | 2 | 9.9 | 7.9 | 79.0 | |

Table 5 : Increase in knowledge level of farmers on Drum seeding Technology

| Table 6: Gain in | skill on Drum | seeding Technology | by the farmers |
|------------------|---------------|--------------------|----------------|
| | | | |

| | | N=30 | | |
|---------|-----------------------|-------------|---------------|--------------|
| Sl. No. | Average score skill a | ucquisition | Gain in skill | Davaant gain |
| | Before | After | acquisition | Percent gain |
| 1. | 0 | 9.0 | 9.0 | 90 |

Out come

The technology demonstrated in 21 farmers with 11 hectare area for three years by KVK. Later the technology spread to neighbouring farmers and the whole village Chandagalu/ Kurikoppalu villages were known as "Drum Seeder villages". Surrounding villages like Holalu, M.N.Katte, Hadya, Sampalli, Goravale of Mandya taluk embraced the technology. Further the technology spread to Maddur, Malavalli S.R.Patna & Pandavpura talukas of the district. Many farmers from Mysore, Hassan, Davanagere and North Karnataka who visited Mandya during Krishi Mela have express willingness to adopt drum seeding. The technology is being adopted in an area of 3360 ha by nearly 8125 farmer over three years. On an average additional yield realised by a farmer is 39.25q/ha. It sums up to an extra monetary benefit of Rs. 54,950 per hectare to his annual income with the saving in seeds up to 1,12,560kgs and water saving upto 15 per cent.

In conventional method raising of nursery, removing of seedling from nursery, transportation and distribution of seedlings in the main field and transplanating are the common practices which are strainfull and labour intensive activities. But in drum seeding method as the seeds are sown directly, all these activities are avoided so also the drudgery.

Impact

Large number of farmers are adopting the technology in the district. The trend analysis of area, production and productivity showed that even though the area under paddy is decreased by 22153 ha and production by 111999 tons, the productivity has improved by 271 kg per hectare. One of the reason for productivity increase could be use of hybrid paddy and drum seeding. There was a steep increase in demand for drum seeder. KVK in association with Water technology Center, V.C.Farm, Mandya was sparing the service of the drum seeder to the farmer at no cost to the farmer. Later each farmers co-operative societies were having 1-2 drum seeder at their disposal. Many farmers owned drum seeder as it was available with 50 per cent subsidy through Agriculture Department and also it was available at custom hiring centres. Indian Farmers Fertilizer Cooperative, Mandya provided drum seeder to selected farmers societies and a Commodity Based Association on Paddy (Sri Harihareshwara Bhatta Belegarara Sangha) in Maddur is also providing drum seeder on hire basis and guidance to the farmers on drum seeding. Now a days the improved drum seeder is available locally. On an average there are about 650 drum seeders available in the district. It is evident from the

data that there is acceptance for the hybrid paddy (KRH-4). Positive change can be observed in varietal replacement if sufficient and timely availability of hybrid seed (public & private) is ensured. The additional yield realised by this technology was 1.32 lakh quintal and the additional income was 18.48 crore rupees towards district agricultural economy.

Table 7: Trends in Area, Production and Productivity of paddy in Mandya district.

| Year | Area (ha.) | Production (t) | Productivity (kg/ha) |
|---------|------------|----------------|----------------------|
| 2010-11 | 80640 | 285547 | 3364 |
| 2015-16 | 58487 | 173548 | 3635 |

Source: Mandya at a glance, Dept of statistics

Table 8: Taluk wise No. of drum seeder adopted, Societies involved and farmers benefitted

| Sl. No. | Taluk | Area covered (ha.) | No. of societies/KVK involved | No. of farmers benefited |
|---------|---------------|--------------------|----------------------------------|--------------------------|
| 1. | Mandya | 2050 | 5 (VBSSN) | 4670 |
| 2. | Maddur | 715 | 1(CBO) | 1985 |
| 3. | Srirangapatna | 280 | KVK | 638 |
| 4. | K.R.Pet | 210 | 4 (VBSSN) | 552 |
| 5. | Malavalli | 85 | KVK | 217 |
| 6. | Pandavapura | 10 | KVK | 35 |
| 7. | Nagamangala | 10 | KVK | 28 |

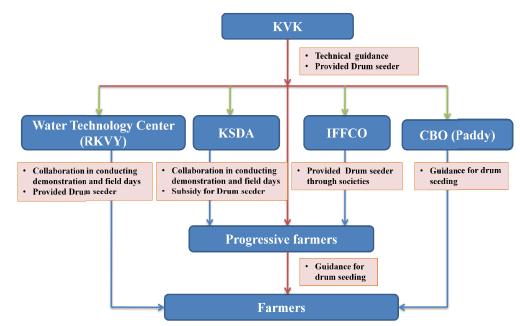


Fig 4: Linkage with stakeholders and support extended by them

Mr. Puttaswamy from Kurikoppalu village of Mandya taluk is practicing the drum seeder technology for the past 6 years. He feel proud to purchase a bike and put his children to convent school with the income got by adopting the technology. He is also popularly referred as "Drum seeder guru". Mr. Andani gowda, farmer form Chandagalu opines that drum seeder technology should be adopted by all paddy farmers as it reduce drudgery and cost of production and increases the profit. He upgraded his house from tile roof to RCC home. The additional family income generated was effectively used for purchase of farm machineries and input without depending on borrowed money. Mr.Puttaswamy of Mathad doddi village feels that this technology not only gives higher returns but also it is eco-friendly. The practice of passing cono weeder effectively control the weed, without use of weedicide and also improve soil health as the weed biomass got incorporated in to the soil. Likewise many farmers have been benifitted by this technology promoted by KVK Mandya.

Problems in adoption Drum Seeding of Hybrid Paddy

As the farmers are acquainted to see the 1ft high crop immediately after transplanting, the slow growth of the crop in drum seeding dishearten the farmers whether the crop come up or not. But here the seeds are directly sown hence the initial growth is slow. After passing the conoweeder and application of fertilizers at 20 days after sowing good growth can be observed. Secondly the timely availability of drum seeder is also a reason for slow spread of the technology. Seed availability of hybrid paddy in required quantity is not there.

If these things are taken care Drum Seeding in Hybrid Paddy can be a boon to farmers in enhancing the yield and economics of distressed paddy farmers.

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

- > Involving progressive farmers (alumni of KVK activities) as resource persons
- Participatory Trainings
- ➢ e-SMS
- Farmers-Scientist-Extension interface programme
- ➤ Campaign
- Group exercise for the farmers
- > Organized Doubling farmers income strategies programme, special days

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. | Crop / | ITK Practiced | Purpose of ITK | Scientific Rationale |
|-----------|------------|--|--------------------------------------|--|
| No. | Enterprise | | - | |
| 1. | Banana | Incorporation of neem, Pongamia, Cactus, ekka etc. | To reduce rhizome weevil and | Low yield and low quality fruit |
| | | before planting | fusarium wilt of Banana | |
| 2. | Paddy | Growing of cowpea all along the bund of paddy | For fodder and vegetable purpose and | Inhibition of weeds and use of dry matter as |
| | | | also strengthening of bunds | fodder and grain purpose for family |
| 3. | Sugarcane | Growing of Vegetables as in intercropping in | For vegetable purpose | Soil health management and additional |
| | | Sugarcane | | income through vegetables |
| 4. | Paddy | Use of Ekka (<i>Aak</i>) plant in paddy field | Green manure & pest and disease | Soil health management and reduce pest & |
| | | | management | disease management |

10 F. Technology Week celebration during 2020: No

Period of observing Technology Week:FromtoTotal 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

| Sl. No. | Event | International / National / State level recognition | Particulars | Scientists |
|------------|-------|---|-------------|------------|
| - | - | - | - | - |

PART XI – SOIL AND WATER TEST

11.1 Soil and Water Testing Laboratory

A. Status of establishment of Lab

: Good but lacks facility for analysis of plant samples

- 1. 2.
- Year of establishment : 15th December 2005 List of equipments purchased with amount : Listed below

| Sl. No | Name of the Equipment | Qty. | Cost | Status |
|--------|-------------------------------------|---------|--------------|----------------|
| 1 | Digital conductivity meter | 1 No. | 7400 | Good condition |
| 2 | Digital pH meter | 1 No. | 8550 | Good condition |
| 3 | Physical balance | 1 No. | 12000 | Good condition |
| 4 | Hot air oven | 1 No. | 20000 | Good condition |
| 5 | Magnetic stirrer | 1 No. | 5500 | Good condition |
| 6 | Top loading balance | 1 No. | 48900 | Good condition |
| 7 | Rotory shaker | 1 No. | 27600 | Good condition |
| 8 | Double glass distilation unit | 1 No. | 48850 | Good condition |
| 9 | Macro block digestion system | 1 No. | 52118 | Good condition |
| 10 | Automatic distilation system | 1 No. | 85232 | Good condition |
| 11 | Acid neutrilizer scrubber | 1 No. | 23909 | Good condition |
| 12 | Spectrophotometer | 1 No. | 42000 | Good condition |
| 13 | Flame photometer | 1 No. | 35200 | Good condition |
| 14 | Micro oven | 1 No. | 14980 | Good condition |
| 15 | Micro scope | 1 No. | 66555 | Good condition |
| 16 | Refrigerator | 1 No. | 30750 | Good condition |
| 17 | Digital micro pipettes-one set | One set | 21180 | Good condition |
| 18 | pH meter | 1 No. | 6600 | Good condition |
| 19 | Laminar Air flow | 1 No. | 44900 | Good condition |
| 20 | Auto clave | 1 No. | 28687 | Good condition |
| 21 | Eliza reader | 1 No. | 147155 | Good condition |
| 22 | Mridiparikshak soil testing kit | 1 No. | 86000 | Good condition |
| 23 | Atomic absorption spectrophotometer | 1 No. | 2184732 | Good condition |
| 24 | Double distillation unit | 1 No. | 98,000=00 | Good Condition |
| 25 | End to end reciprocatory shaker | 1 No. | 70,00,000=00 | Good Condition |

B. Details of samples analyzed since establishment of SWTL:

| Details | No. of Samples analyzed | No. of Samples analyzed No. of Farmers benefited | |
|------------------|-------------------------|--|------|
| Soil Samples | 5047 | 3994 | 1245 |
| Water Samples | 1168 | 962 | 668 |
| Plant samples | 91 | 52 | 15 |
| Manure samples | 75 | 33 | 21 |
| Others (specify) | - | - | - |
| Total | 6381 | 5041 | 1949 |

C. Details of samples analyzed during the 2020-21:

| Details | No. of Samples analyzed | No. of Farmers benefited | No. of Villages |
|------------------|-------------------------|--------------------------|-----------------|
| Soil Samples | 469 | 450 | 411 |
| Water Samples | 209 | 182 | 175 |
| Plant samples | - | - | - |
| Manure samples | - | - | - |
| Others (specify) | - | _ | - |
| Total | 678 | 632 | 586 |

11.2 Mobile Soil Testing Kit

A. Date of purchase and current status

| | Mobile Kits | Date of purchase | Current status |
|----|-----------------------------|------------------|----------------|
| 1. | Pusa Digital STFR Meter Kit | December 2015 | Good condition |
| | (Model-WST- 201 P-GPS) | | |
| 2. | Mridi Parikshak | March 2017 | Good condition |

B. Details of soil samples analyzed during 2020 and since establishment with Mobile Soil Testing Kit:

| | Progress during 2019 | Cumulative progress |
|-------------------------|----------------------|---------------------|
| Samples analyzed (No.) | * | 100 |
| Farmers benefited (No.) | - | - |
| Villages covered (No.) | - | - |

* Used for Electrical conductivity and pH recording

11.3 Details of soil health cards issued based on SWTL & Mobile Soil Testing Kit during 2020:

| Particulars | Date (s) | Villages (No.) | Farmers (No.) | Samples | Soil health cards |
|-------------------------|------------------------|----------------|---------------|----------------|-------------------|
| | | | | analyzed (No.) | issued (No.) |
| SWTL | April 2020 to Feb 2021 | 411 | 450 | 469 | 469 |
| Mobile Soil Testing Kit | - | - | - | - | - |

11.4 World Soil Health Day celebration

| Sl. | Farmers participated | Soil health cards | VIPs (MP/ Minister/ | Other Public | Officials | Media coverage |
|-----|----------------------|-------------------|---------------------|------------------------------|--------------------|----------------|
| No. | (No.) | issued (No.) | MLA attended (No.) | Representatives participated | participated (No.) | (No.) |
| 1. | 48 | 48 | - | 2 | 4 | 1 |

PART XII. IMPACT

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

| Name of specific technology/skill | No. of | % of | Change in income (Rs.) | | |
|---------------------------------------|--------------|----------|------------------------|-----------------------------|--|
| transferred | participants | adoption | Before (Rs./Unit) | After (Rs./Unit) | |
| Micro nutrient management in mulberry | 8 | 75 | 9100 | 12690 | |
| Coconut tree climbing | 140 | 30 | - | 15,000 - 20,000 / per month | |
| Micro nutrient - Banana special | 200 | 60 | 185000 / ha | 210000 / ha | |

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

| Problem statement / | | Gaps Identif | ïed | Technology | OFT/FLD/ | Area cov | ered | Output |
|---|----------------|---|---|---|---|--|--------------|--|
| situation analysis: | Yield | Extension | Technology | Demonstrated | Capacity building programmes | Before | After | Yield/Income |
| Low yield and low income in paddy cultivation | 25-30 q/ha | Lack of awareness | Lack of awareness about hybrids | Popularization of hybrid paddy KRH-4 | FLD, Capacity building programme | 4 ha | 1000 ha | Grain Yield –75 to 80 q / ha Net returns - 50-60 % more than conventional variety |
| High cost of cultivation in paddy | 10-15 q/ ha | Lack of awareness | Lack of popularizatio n about technology | Drum seeding method of sowing paddy | FLD & capacity building programme | 4 ha | 3360 ha | Yield – 65 to 70 q/ha Net return – 25-30 % More than conventional method |
| Improper Trash Management (Trash burning), ratoon management, low yields and low income in sugarcane | 15-20 t/ha | Trash burning & improper ratoon management | Lack of awareness about Trash management | Trash mulching: Mulching of Sugarcane trash in alternate rows, broadcasting 75 Kg/ha urea on trash with application of 500 Kg of FYM enriched with 25 Kg trichoderma Ratoon management: | FLD & capacity building programme | 10 -20 ac (Progressiv e farmers) | 19500 ha. | Yield – 100 to 115 ton / ha. Net return – 20 to 25% compared to trash burning and improper ratoon management |

| | | | | Stubble shaving, shoulder breaking, gap filling and nutrient management practices | | | | |
|--|---------------|----------------------|--|--|---|----------|--------------|--|
| Blast & stem borer problem in paddy | 5 q / acre | Lack of awareness | Lack of knowledge about pest management | Seed treatment, neem cake application Release of Trichograma Foliar spray of Pseudomonas Use of Pheromone traps | FLD & capacity building programme | 100 acre | 1000 acre | Yield – 24 to 26 q/ac Net return – 10 to 15% More than regular farmers practice |

PART XIII - LINKAGES

13A. Functional linkage with different organizations

| Implemented a project entitled "Evaluation of pre and post emergence herbicides sequence for direct seeded rice (DSR) in Cauvery |
|--|
| |
| command area" funded by Department of Agriculture, Mandya |
| Joint Diagnostic visit for management of Fall army worm in Maize in Mandya District |
| Technical support to FPOs through KVK under CHD programme (Demonstrations, Training programmes, Field visits and Interstate |
| tours) |
| NADC, FMD & Brucellosis and artificial Insemination inauguration programme and vaccination to milking animals |
| |
| J t |

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 | Date/ Month of initiation Funding agency | | |
|--|---------------------------|--|-------------|--|
| Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India | April 2018 | IIPR, Khanpur | 1,50,00,000 | |
| Project entitled "Evaluation of pre and post emergence herbicides sequence for direct seeded rice (DSR) in Cauvery command area" | January 2019 | KSDA, GOK | 5,00,000 | |
| Technical support to FPOs through KVK | June 2018 | CHD, SADH | 3,09,750 | |

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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 | Meetings attended | | | |
| 02 | Research projects | Project entitled "Studies on yield maximization of Blackgram (Vigna mungo L.) through foliar nutrition in paddy fallow of Cauvery command area " | 1 | - | On going |
| 03 | Training programmes | Trainings to visited farmers under ATMA | - | - | - |
| 04 | Demonstrations | - | - | - | - |
| 05 | Extension Programmes | | | | |
| | Kisan Mela | | | - | - |
| | Technology Week | - | - | - | - |
| | Exposure visit | - | - | - | - |
| | Exhibition | Krishimela | 1 | - | - |
| | Soil health camps | - | - | - | - |
| | Animal Health Campaigns | - | - | - | - |
| | Others (Pl. specify) | - | - | - | - |
| 06 | Publications | | | | |
| | Video Films | - | - | - | - |
| | Booklet | Improved cultivation practices in pulses and NFSM to increase productivity | - | - | Released by Hon'ble Agriculture minister |
| | Extension Literature | - | - | - | - |
| | Pamphlets | - | - | - | - |
| | Others (Pl. specify) | - | - | - | - |
| 07 | Other Activities (Pl.specify) | | | | |
| | Watershed approach | - | - | - | - |
| | Integrated Farm Development | - | - | - | - |
| | Agri-preneurs development | - | - | - | - |

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

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

13E. Nature of linkage with National Fisheries Development Board : Nil

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

13F. Details of linkage with RKVY

| S. No. | Programme | Nature of linkage | Funds received if any Rs. | Expenditure during the reporting period in Rs. | Remarks | |
|--------|-----------------|--------------------------|---------------------------|--|-------------------|--|
| 1. | Mushroom Grower | Training programme under | 1,80,000 | - | Yet to be started | |
| 2. | Organic Grower | ASCI | 1,80,000 | - | Yet to be started | |

13 G. Kisan Mobile Advisory Services

| | Message | | | SMS/ voice | calls sent (No | .) | | Total | Farmers |
|-----------|-----------------------|------|-----------|------------|----------------|-----------|----------------------|-----------------------------------|---------------------|
| Month | type (Text/ Voice) | Crop | Livestock | Weather | Marketing | Awareness | Other enterprises | SMS/ Voice calls sent (No.) | benefitted (No.) |
| January | Text | 6 | - | - | - | - | - | 6 | |
| February | Text | 4 | - | - | - | - | - | 4 | |
| March | Text | 2 | - | - | - | - | - | 2 | |
| April | Text | 0 | - | - | - | - | - | 2 | |
| May | Text | 0 | - | - | - | - | - | - | |
| June | Text | 2 | | 1 | | 1 | - | 5 | 47255 |
| July | Text | 1 | - | 1 | 1 | 1 | - | 4 | 47355 |
| August | Text | 0 | 1 | 1 | 1 | | - | 10 | |
| September | Text | 5 | - | 1 | - | | - | 4 | |
| October | Text | 6 | - | 1 | - | | - | 5 | |
| November | Text | 5 | - | 1 | - | | - | 6 | |
| December | Text | 5 | - | 1 | - | | - | 3 | |
| Total | | 36 | 1 | 7 | 2 | 2 | - | 48 | 47355 |

PART XIV- PERFORMANCE OF INFRASTRUCTURE IN Krishi Vigyan Kendra, V.C.Farm, Mandya

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

| Sl. | | Year of Area | | | Details of production | | | Amount (Rs.) | | |
|-----|---------------------------------|---------------|---------|---------------------------|-----------------------|-----------|----------------|--------------|---------|--|
| No. | Demo Unit | establishment | (ha) | Variety | Produce | Qty. | Cost of inputs | Gross income | Remarks | |
| 1. | Low cost Silkworm rearing house | 2013 | 800 Sqm | Double hyb. FC1 x FC 2 | Cocoons | 101.87 Kg | 30000 | 44003 | - | |
| 2. | Crop cafeteria | 2019 | 0.04 | - | Vegetables | 255 Kg | 1900 | 5290 | - | |
| 3. | Coconut Seedlings | 2018 | - | Tiptur tall | Seedlings | 1732 No. | 20000 | 129900 | - | |
| 4. | Coconuts | - | - | Tiptur tall | Coconuts | 3565 | 10000 | 65467 | - | |

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

| Name | | |) a | | Details of production | | Amount | (Rs.) | |
|---------------------|----------------|-----------------|--------------|-------------|-----------------------|------|----------------|-----------------|---------|
| of the crop | Date of sowing | Date of harvest | Area (ha) | Variety | Type of Produce | Qty. | Cost of inputs | Gross income | Remarks |
| Cereals | | | | | | | | | |
| Paddy | - | - | | | | - | - | - | - |
| Pulses | - | - | - | - | - | - | - | - | - |
| Oilseeds | - | - | - | - | - | - | - | - | - |
| Fibers | - | - | - | - | - | - | - | - | - |
| Spices & Plantation | crops | | | | | | | | |
| Coconut Seedlings | 2020 | 2021 | - | Tiptur tall | Seedlings | 1732 | - | 129900 | |
| Floriculture | | | | | | | | | - |
| Fruits | | | | | | | | | |
| Papaya | 2020 | 2021 | - | Redlady | Saplings | 152 | | 3041 | - |
| Vegetables | | | | | | | | | |
| Drumstick | | | | | | | | | - |
| Drumstick | 2020 | 2021 | - | PKM-1 | Seedlings | 3919 | - | 58785 | - |
| Curry leaf | 2020 | 2021 | - | Suhasini | Seedlings | 79 | - | 1580 | - |
| Others (specify) | · | | | | | | | | |
| Mulberry | 2020 | 2021 | - | V-1 | Saplings | 2300 | - | 6900 | - |

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

| Sl. | | | Amou | | |
|-----|---------------------|-----|----------------|--------------|---------|
| No. | Name of the Product | Qty | Cost of inputs | Gross income | Remarks |
| | | | | | |
| | | | | | |

| - | тр. | i ci ioi mance oi mști actionai | iai iii (iivestoek ai | a fisher les product | | | | |
|---|-----|---------------------------------|-----------------------|----------------------|------|----------------|--------------|---------|
| | Sl. | Name | De | etails of production | | Amou | nt (Rs.) | |
| | No | of the animal / bird / aquatics | Breed | Type of Produce | Qty. | Cost of inputs | Gross income | Remarks |
| | | | | | | | | |
| | | | | | | | | |

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

14E. Utilization of hostel facilities

Accommodation available (No. of beds): 50

| Months | No. of trainees stayed | Trainee days (days stayed) | Reason for short fall (if any) |
|-----------|------------------------|----------------------------|--------------------------------|
| January | 125 | 6 | - |
| February | 185 | 12 | - |
| March | - | - | - |
| April | - | - | - |
| May | - | - | - |
| June | - | - | - |
| July | 20 | 5 | - |
| August | 48 | 18 | - |
| September | 19 | 6 | - |
| October | 120 | 16 | - |
| November | 100 | 7 | - |
| December | 90 | 28 | |

14F. Database management

| | S.No | Database target | Database created |
|---|------|--------------------------|-------------------------------|
| ſ | 1. | KVK activities (2020-21) | Maintained in Microsoft Excel |

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

| mount nction (Rs.) | Expenditure (Rs.) | Details of infrastructure created / micro | | X71 1. X 001 1 X | Quantity of water harvested | Area irrigated / utilization | | | |
|-----------------------|-------------------|---|-------------------------------|------------------------|---------------------------------------|---------------------------------|-----------------------------|----------------|---------|
| () | | irrigation system etc. | No. of Training programmes | No. of Demonstration s | No. of plant materials produced | Visit by farmers (No.) | Visit by officials (No.) | in '000 litres | pattern |
| | | | | | | | | | |
| | | | | | | | | | |

PART XV – SPECIAL PROGRAMMES

15.1 Paramparagath Krishi Vikas Yojana (PKVY) : Nil

| S1 | Name of cluster village | Initial soil fertility status (Average of cluster village) | | | Facilities created for | Name of | | Organic inputs applied including | Yield | Economics | | |
|-----------|-------------------------|---|---------|------------|------------------------|--------------------------------|------------------|----------------------------------|---|-----------|-----------------------------------|---------------------------|
| Sl No. | | Aval. N | Aval. P | Aval. K | OC % | organic source of manure | Crops cultivated | Variety | bio-agents and botanicals treatment | (q/ha) | Cost of cultivation (Rs/ha) | Net returns (Rs/ha) |
| 1 | - | | - | | | - | - | - | - | - | - | - |

15.2 District Agriculture Meteorological Unit (DAMU)

| | | Agro advisories | | Farmers aware | eness 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 | 103 | 47300 (mKisan) | 47300 | 23 | 781 |
| 2 | | 9600 (Whats app) | 9600 | | |

15.3 Fertilizer awareness programme 2020

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

15.4 Seed Hub

| Crops | Variety | Year of release | Class of seed | Seed production (q) | Seeds sold (q) | Ava. Seeds (q) |
|-----------|---------|--------------------|------------------|------------------------|-------------------|-------------------|
| Greengram | KKM-3 | 2019 | CS | 11 | 4.82 | 6.18 |
| | | | TL | 2.25 | 2.25 | - |
| Blackgram | LBG-791 | 2019 | TL | 86.90 | 38.25 | 48.65 |
| Cowpea | KBC-9 | 2019 | TL | 13.8 | 11.65 | 2.15 |
| Redgram | BRG-3 | 2019 | TL | 17.3 | - | 17.3 |
| Horsegram | PHG-9 | - | TL | 3.3 | - | 3.3 |

| 15.6 | Seed | on | Pulses | : |
|------|------|------|---------|---|
| 10.0 | Secu | •••• | 1 41505 | • |

| SI. No | KVK | Crop | Season | Var | ·iety | Varietal Characteristics | Technology Demonstrate | CFLD's A Targ | | - | 'LD's vements | Clust ers | Yi (q/ | eld ha) | % Increase |
|-----------|--------|-------|--------|------|-------|--------------------------|---------------------------|------------------|-------|------|------------------|--------------|-----------|------------|---------------|
| | | | | Demo | Check | (Demo) | d | Area | Demos | Area | Demos | | De | Che | |
| | | | | | | | | (ha) | (No.) | (ha) | (No.) | | mo | ck | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 1 | KVK, | Black | Kharif | LBG- | Local | 1. High yielding | Integrated | 10 | 25 | 10 | 25 | 2 | 5.12 | 3.10 | 64.51 |
| | Mandya | gram | | 791 | | 2. Attains synchronize | Crop | | | | | | | | |
| | 2 | C | | | | maturity | Management | | | | | | | | |
| | | | | | | 3. Tolerant to Yellow | in Black gram | | | | | | | | |
| | | | | | | mosaic virus | C C | | | | | | | | |

| Yield gap (q/ha) over | Gross cos | st Rs/ha | | Returns /ha | Net-R (Rs/ | eturns 'ha) | B:C | Ratio | Net-Return | Remarks (if | District Average | State Average Yield |
|--------------------------|-----------|----------|-------|----------------|---------------|----------------|------|-------|--------------|-------------|------------------|---------------------|
| check | Demo | Check | Demo | Check | Demo | Check | Demo | Check | increase (%) | any) | Yield (q/ha) | (q/ha) |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 2.02 | 16750 | 14900 | 40950 | 24800 | 24210 | 9900 | 2.44 | 1.65 | 144.54 | - | 4.4 | 7.64 |

15.7 Krishi Kalyan Abhiyan: Nil

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

15.8 Micro-Irrigation: Nil

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

PART XVI - FINANCIAL PERFORMANCE

16A. 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 | State Bank of India | V.C.Farm | 40164 | Saving | 54046591066 | 000006000 | SBIN0040164 |
| With KVK | State Bank of India | V.C.Farm | 40164 | Saving | 54046591066 | 000006000 | SBIN0040164 |
| | State Bank of India | V.C.Farm | 40164 | Saving | 64004043829 | 000006000 | SBIN0040164 |

16B. Utilization of KVK funds till February -2021 (Rs. in lakh)

| S. | Particulars | Sanctioned | Released | Expenditure |
|-------|--|------------|-----------|-------------|
| No. | | Sunctioned | Iteleuseu | Expenditure |
| A. Re | ecurring Contingencies | | | 1 |
| 1 | Pay & Allowances | 105.5 | - | 90.85 |
| 2 | Traveling allowances | 1.50 | - | 1.72 |
| 3 | Contingencies | | | |
| Α | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 2.10 | - | 1.85 |
| В | POL, repair of vehicles, tractor and equipments | 2.25 | - | 2.24 |
| С | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained) | 0.85 | - | 0.85 |
| D | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | 0.30 | - | 0.29 |
| Ε | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | 3.27 | - | 3.07 |
| F | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | 0.40 | - | 0.22 |
| G | Training of extension functionaries | 0.25 | - | 0.25 |
| Н | Extension Activities | 0.25 | - | 0.23 |
| Ι | Maintenance of buildings | 0.50 | - | 0.45 |
| J | Establishment of Soil, Plant & Water Testing Laboratory | 0.30 | - | 0.30 |
| K | Nutri gardens | 0.25 | - | 0.23 |
| L | Conference on Extension / Farmers Science Congress | - | - | |
| L | Library | 0.10 | - | 0.03 |
| J | EDP | 0.14 | - | 0.13 |
| | TOTAL (A) | 117.96 | - | 102.71 |
| B. No | on-Recurring Contingencies | | | |
| 1 | Works | - | - | - |
| 2 | Equipment including SWTL & Furniture | - | - | - |
| 3 | Vehicle (Four wheeler/Two wheeler, please specify) | - | - | - |
| 4 | Library (Purchase of assets like books & journals) | - | - | - |
| | AL (B) | - | - | - |
| | EVOLVING FUND | - | - | - |
| GRA | ND TOTAL (A+B+C) | 117.96 | - | 102.71 |

16C. Status of revolving fund (Rs. in lakh) for the last three years

| Year | Opening balance as on 1 st April | Income during the year | Expenditure during the year | Net balance in hand as on 1 st April of each year |
|----------------------------|--|------------------------|-----------------------------|---|
| April 2018 to March 2019 | 3.91 | 28.99 | 20.83 | 8.16 |
| April 2019 to March 2020 | 8.16 | 10.14 | 12.23 | 6.06 |
| April 2020 to January 2021 | 6.06 | 18.05 | 13.10 | 11.02 |

17. Details of HRD activities attended by KVK staff

| Name of the staff | Designation | Title of the training programme | Institute where attended | Dates |
|---|--|---|---|-----------------------------|
| Dr. Atheefa Munawery | Scientist (Soil Science) | National Webinar on Higher education and Research in National Resource Management for environmental sustainability | CAAST CSAWM, MANAGE | 14.08.2020 |
| | | National webinar on Scope of Horticulture in Hilly zone of Karnataka | College of Horticulture, UAHS, Bagalkote | 17.08.2020 |
| Dr. Atheefa Munawery | Scientist (Soil Science) | Training for trainers Digitally | Jointly organized by Directorate of | |
| Dr. Roopashree, D. H Dr. Pavithra, S | Scientist (Agronomy) Scientist (Plant protection) | empowered self employed, extension force (DESEE Force): Training Rural Youth for providing crop Health Services | extension and Tene agricultural solution Pvt Ltd Bengalore | 22.09.2020 to 23.09.2020 |
| Dr. Atheefa Munawery | Scientist (Soil Science) | National conference of Society of | Society of Krishi Vigyan | 26.09.2020 to |
| Mrs. Arpitha, S. N. | SMS (Agromet) | Krishi Vigyan on Advances in sustainable agriculture | | 28.09.2020 |
| Dr. Atheefa Munawery | Scientist (Soil Science) | Technology interventions towards | Jointly organized by Agro environmental | 11.10.2020 to |
| Dr. Pavithra, S | Scientist (Plant protection) | transformation of agriculture and allied sector | development society (AEDS), CSRTI, Pondichery institute of agricultural science | 31.10.2020 |
| Dr. Atheefa Munawery | Scientist (Soil Science) | National training on Internet of | Engineering staff college of India | 14.01.2021 |
| Dr. Pavithra, S | Scientist (Plant protection) | things (IoT) for the faculty | | to 18.01.2021 |
| Dr. Prakash B.K | Scientist (Sericulture) | Impact of COVID-19 on silk production | DOS in Sericulture Science, University of Mysore, Mysore | 13.08.2020 |
| | | Transgenic Silkworm (<i>Bombyx</i> <i>mori</i>) – An Epoch Making Technology | DOS in Sericulture Science, University of Mysore, Mysore | 25.08.2020 |
| | | Mechanization in Sericulture | DOS in Sericulture Science, University of Mysore, Mysore | 02.09.2020 |
| | | Wild silk moth diversity and its ex- situ and in-situ conservation in India | DOS in Sericulture Science, University of Mysore, Mysore | 10.09.2020 |

| | | Integrated disease management in silkworm | DOS in Sericulture Science, University of Mysore, Mysore | 18.09.2020 |
|----------------------|--------------------------------|--|---|-----------------------------|
| | | Automated recognition of silkworm races and breeds through computational and gene based coding | DOS in Sericulture Science, University of Mysore, Mysore | 23.09.2020 |
| | | Application of Geo-informatics in sericulture development | DOS in Sericulture Science, University of Mysore, Mysore | 28.10.2020 |
| | | Development of disease resistant silkworms | DOS in Sericulture Science, University of Mysore, Mysore | 02.11.2020 |
| Dr. Roopashree, D. H | Scientist (Agronomy) | International training programme on Climate risk assessment and its management through agro meteorological approaches | DARS-Rangreth, SKUAST-K | 21.10.2020 to 30.10.2020 |
| Mrs.Saritha N | Programme Assistant (Computer) | Online summer training programme on Full Stack Web Development | Indian Institute of Technology Roorkee | 01.10.2020 to 14.10.2020 |

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

Related photos:





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