# Action Plan
# 2021

# KRISHI VIGYAN KENDRA, DEOGARH

**Odisha University of Agriculture and Technology, Bhubaneswar**

# ACTION PLAN 2021

**1. Name of the KVK:** KVK, Deogarh

| Address | Telephone | Fax | E mail |
|---|---|---|---|
| Krishi Vigyan Kendra, Deogarh<br>Near Horticulture Farm,<br>At/Po-Purunagarh,<br>Dist-Deogarh, Pin-768119 | 06641-295265 | - | kvkdeogarh.ouat@gmail.com |

**2.Name of host organization** :

| Address | | | E mail |
|---|---|---|---|
| | Telephone | FAX | |
| Odisha University of Agriculture & Technology, Bhubaneswar | 0674-2562509 | - | deanextension_ouat@rediffmail.com<br>deanextensionouat@yahoo.com<br>deanee@ouat.nic.in |

**3.Training programme to be organized**

**(a) Farmers and farmwomen**

| Thematic area | Title of Training | No. | Duration | Venue On/Off | Tentative Month | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SC | | ST | | Other | | Total | | |
| | | | | | | M | F | M | F | M | F | M | F | T |
| INM | Integrated Nutrient management practices in Sunflower | 1 | 1 | Off | January, 2021 | | | | | | | | | 30 |
| CRP | Use of different bio-fertilizers in pulse crops | 1 | 1 | Off | February, 2021 | | | | | | | | | 30 |
| CRP | Nursery management in Kharif Rice and Importance of Line Sowing. | 1 | 1 | Off | June 2021 | | | | | | | | | 30 |
| IWM | Method of application of herbicide in Rice | 1 | 1 | Off | June 2021 | | | | | | | | | 30 |
| SFM | Acid soil management for higher production in groundnut | 1 | 1 | Off | June 2021 | | | | | | | | | 30 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IWM | Integrated weed management practices in Black gram | 1 | 1 | Off | July 2021 | | | | | | | | | 30 |
| INM | Integrated Nutrient Management prctices in Arhar. | 1 | 1 | Off | August 2021 | | | | | | | | | 30 |
| ICM | Scientific cultivation practices of sesame | 1 | 1 | Off | August 2021 | | | | | | | | | 30 |
| ICM | Agricultural waste/Stubble management alternative to burning | 1 | 1 | Off | September 2021 | | | | | | | | | 30 |
| IWM | Integrated weed management practices in Rape seed and mustard | 1 | 1 | Off | October, 2021 | | | | | | | | | 30 |
| CRP | Scientific cultivation practices of Sunflower | 1 | 1 | Off | November, 2021 | | | | | | | | | 30 |
| PHM | Post harvest management in tomato | 1 | 1 | Off | January 2021 | | | | | | | | | 30 |
| Nursery management | Transplanting method of watermelon | 1 | 1 | Off | February 2021 | | | | | | | | | 30 |
| PHM | Post harvest management of onion | 1 | 1 | Off | March 2021 | | | | | | | | | 30 |
| Varietal evaluation | Nursery management of sweet potato | 1 | 1 | Off | April 2021 | | | | | | | | | 30 |
| ICM | Management practices of sweet potato and details about the coloured varieties | 1 | 1 | Off | May 2021 | | | | | | | | | 30 |
| ICM | Scientific cultivation practices o ginger as intercrop in mango orchard | 1 | 1 | Off | June 2021 | | | | | | | | | 30 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ICM | Nursery management of kharif onion | 1 | 1 | Off | July 2021 | | | | | | | | | 30 |
| ICM | Scientific cultivation practices of kharif onion | 1 | 1 | Off | August 2021 | | | | | | | | | 30 |
| ICM | Scientific cultivation practices of spinegourd | 1 | 1 | Off | September 2021 | | | | | | | | | 30 |
| ICM | Quality planting material production of spinegourd | 1 | 1 | Off | October 2021 | | | | | | | | | 30 |
| ICM | Scientific cultivation practices of custard apple | 1 | 1 | Off | November 2021 | | | | | | | | | 30 |
| ICM | Training and pruning technology in custard apple for high yield | 1 | 1 | Off | December 2021 | | | | | | | | | 30 |
| INM | Integrated nutrient management in litchi | 1 | 1 | Off | January 2021 | | | | | | | | | 30 |
| IDM | Management practices for control of thrips in watermelon | 1 | 1 | Off | January 2021 | | | | | | | | | |
| IPM | Management practices for control pod borer in green gram | 1 | 1 | Off | February 2021 | | | | | | | | | 30 |
| IDM | Chemical management practices for control purple blotch in onion | 1 | 1 | Off | March 2021 | | | | | | | | | 30 |
| IDM | Chemical management practices for control panicle mites in rice | 1 | 1 | Off | April 2021 | | | | | | | | | 30 |
| IDM | Management practices for control of Erwinia rot in | 1 | 1 | Off | May 2021 | | | | | | | | | 30 |

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| | banana | | | | | | | | | | | | | |
| IDM | Management practices for control of collar rot in groundnut | 1 | 1 | Off | June 2021 | | | | | | | | | 30 |
| Mushroom cultivation | Production technologies for paddy straw mushroom cultivation | 1 | 1 | Off | July 2021 | | | | | | | | | 30 |
| IDM | Cultural and chemical management for control of shoot gall psylla | 1 | 1 | Off | August 2021 | | | | | | | | | 30 |
| IDM | Management practices for control of pod borer in pigeonpea | 1 | 1 | Off | September 2021 | | | | | | | | | 30 |
| IPM | Cultural practices to reduce fruit sucking moth infestation in sweet orange | 1 | 1 | Off | October 2021 | | | | | | | | | 30 |
| Mushroom cultivation | Production technologies for oyster mushroom cultivation | 1 | 1 | Off | November 2021 | | | | | | | | | 30 |
| IPM | Management practices for control of fruit flies in pointed gourd | 1 | 1 | Off | December 2021 | | | | | | | | | 30 |
| SFM | Acid soil management for increasing productivity in cole crops | 1 | 1 | Off | February 2021 | | | | | | | | | 30 |
| SFM | Use of soil health card for higher producti0n | 1 | 1 | Off | March 2021 | | | | | | | | | 30 |
| SFM | Importance of soil testing and technique of soil sample collection | 1 | 1 | Off | April 2021 | | | | | | | | | 30 |
| SFM | Benefits of green manuring and production | 1 | 1 | Off | May 2021 | | | | | | | | | 30 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | technique of green manure crops | | | | | | | | | | | | | |
| SFM | Acid soil management for groundnut cultivation | 1 | 1 | Off | June 2021 | | | | | | | | | 30 |
| SFM | Nutrient management in kharif rice | 1 | 1 | Off | July 2021 | | | | | | | | | 30 |
| SFM | Integrated nutrient management in greengram | 1 | 1 | Off | August 2021 | | | | | | | | | 30 |
| SFM | Deficiency symptoms of micronutrients in plants and their management | 1 | 1 | Off | September 2021 | | | | | | | | | 30 |
| SFM | Fertilizer management in cauliflower | 1 | 1 | Off | October 2021 | | | | | | | | | 30 |
| SFM | Use of biofertiliser in vegetable cultivation | 1 | 1 | Off | November 2021 | | | | | | | | | 30 |
| SFM | Secondary and micronutrient management in tomato | 1 | 1 | Off | December 2021 | | | | | | | | | 30 |

**(b) Rural youths**

| Thematic area | Title of Training | No. | Duration | Venue On/Off | Tentative Month | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SC | | ST | | Other | | Total | | |
| | | | | | | M | F | M | F | M | F | M | F | T |
| CRP | Millet cultivation practices for crop diversification and nutritional security | 1 | 2 | On | July, 2021 | | | | | | | | | 15 |
| CRP | Package and practices for cultivation of sweet corn and its market value | 1 | 2 | On | August, 2021 | | | | | | | | | 15 |
| ICM | Quality planting material production in vegetable crops | 1 | 2 | On | June 2021 | | | | | | | | | 15 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ICM | Processing and value addition of mango | 1 | 2 | On | May 2021 | | | | | | | | | 15 |
| Income generation | Mushroom cultivation for income generation around the year | 1 | 2 | On | April 2021 | | | | | | | | | 15 |
| Income generation | Apiculture for income generation | 1 | 2 | On | July 2021 | | | | | | | | | 15 |
| SFM | Vermicomposting | 1 | 2 | On | June 2021 | | | | | | | | | 15 |
| SFM | NADEP compost preparation method and its uses | 1 | 2 | On | July 2021 | | | | | | | | | 15 |

**(c) Extension functionaries**

| Thrust area/ Thematic area | Title of Training | No. | Duration | Venue On/Off | Tentative Month | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SC | | ST | | Other | | Total | | |
| | | | | | | M | F | M | F | M | F | M | F | T |
| CRP | Method of increase nutrient use efficiency in rice cultivation | 1 | 1 | On | July 2021 | | | | | | | | | 10 |
| CRP | Integrated Nutrient Management and its importance in Sustainable Agriculture | 1 | 1 | On | December 2021 | | | | | | | | | 10 |
| ICM | Cultivation techniques of vegetable in greenhouse | 1 | 1 | On | October 2021 | | | | | | | | | 10 |
| ICM | Use of mulches in horticultural crops | 1 | 1 | On | November 2021 | | | | | | | | | 10 |
| IPM | IPM practices for control of major insect pest in rice | 1 | 1 | On | August 2021 | | | | | | | | | 10 |
| IPM | IPM practices for control of emerging pest in vegetables and | 1 | 1 | On | October 2021 | | | | | | | | | 10 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | field crops | | | | | | | | | | | | | |
| PRA | PRA tools for action plan development. | 1 | 2 | on | August 2021 | | | | | | | | | 10 |
| Gender mainstreaming | Main streaming farm women in agriculture | 1 | 2 | on | September 2021 | | | | | | | | | 10 |
| Entrepreneurship development | Marketing issues and agri-enterpreneurship | 1 | 2 | on | November 2021 | | | | | | | | | 10 |
| Management of SHGs | Different IGAs for SHGs. | 1 | 2 | | December 2021 | | | | | | | | | 10 |
| SFM | Acid soil management for higher production | 1 | 1 | On | August 2021 | | | | | | | | | 10 |
| SFM | Fertiliser management practice in fruit crops | 1 | 1 | On | November 2021 | | | | | | | | | 10 |

**Abstract of Training: Consolidated table (ON and OFF Campus)**

**Farmers and Farm women**

| **Thematic Area** | **No. of Courses** | **No. of Participants** | | | | | | | | | **Grand Total** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Other** | | | **SC** | | | **ST** | | | | | |
| | | **M** | **F** | **T** | **M** | **F** | **T** | **M** | **F** | **T** | **M** | **F** | **T** |
| **I. Crop Production** | | | | | | | | | | | | | |
| Weed Management | 2 | | | | | | | | | | | | 60 |
| Resource Conservation Technologies | | | | | | | | | | | | | |
| Cropping Systems | 2 | | | | | | | | | | | | 60 |
| Crop Diversification | | | | | | | | | | | | | |
| Integrated Farming | | | | | | | | | | | | | |
| Water management | | | | | | | | | | | | | |
| Seed production | | | | | | | | | | | | | |
| Nursery management | 1 | | | | | | | | | | | | 30 |
| Integrated Crop Management | 5 | | | | | | | | | | | | 150 |
| Fodder production | | | | | | | | | | | | | |
| Production of organic inputs | | | | | | | | | | | | | |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Others, (cultivation of crops ) | 2 | | | | | | | | | | | | 60 |
| TOTAL | 12 | | | | | | | | | | | | 360 |
| **II. Horticulture** | | | | | | | | | | | | | |
| **a) Vegetable Crops** | | | | | | | | | | | | | |
| Integrated nutrient management | | | | | | | | | | | | | |
| Water management | | | | | | | | | | | | | |
| Enterprise development | | | | | | | | | | | | | |
| Skill development | | | | | | | | | | | | | |
| Yield increment | | | | | | | | | | | | | |
| Production of low volume and high value crops | | | | | | | | | | | | | |
| Off-season vegetables | | | | | | | | | | | | | |
| Nursery raising | 3 | | | | | | | | | | | | 90 |
| Exotic vegetables like Broccoli | | | | | | | | | | | | | |
| Export potential vegetables | | | | | | | | | | | | | |
| Grading and standardization | | | | | | | | | | | | | |
| Protective cultivation (Green Houses, Shade Net etc.) | | | | | | | | | | | | | |
| Others, if any (Cultivation of Vegetable) | 2 | | | | | | | | | | | | 60 |
| TOTAL | 5 | | | | | | | | | | | | 150 |
| **b) Fruits** | | | | | | | | | | | | | |
| Training and Pruning | 1 | | | | | | | | | | | | 30 |
| Layout and Management of Orchards | | | | | | | | | | | | | |
| Cultivation of Fruit | 1 | | | | | | | | | | | | 30 |
| Management of young plants/orchards | | | | | | | | | | | | | |
| Rejuvenation of old orchards | 1 | | | | | | | | | | | | 30 |
| Export potential fruits | | | | | | | | | | | | | |
| Micro irrigation systems of orchards | | | | | | | | | | | | | |
| Plant propagation techniques | | | | | | | | | | | | | |
| Others, if any(INM) | 1 | | | | | | | | | | | | 30 |
| TOTAL | 4 | | | | | | | | | | | | 120 |
| **c) Ornamental Plants** | | | | | | | | | | | | | |
| Nursery Management | | | | | | | | | | | | | |
| Management of potted plants | | | | | | | | | | | | | |
| Export potential of ornamental | | | | | | | | | | | | | |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| plants | | | | | | | | | | | | | |
| Propagation techniques of Ornamental Plants | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **d) Plantation crops** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **e) Tuber crops** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **f) Spices** | | | | | | | | | | | | | |
| Production and Management technology | 2 | | | | | | | | | | | | 60 |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | 1 | | | | | | | | | | | | 30 |
| TOTAL | 3 | | | | | | | | | | | | 90 |
| **g) Medicinal and Aromatic Plants** | | | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | | | |
| Production and management technology | | | | | | | | | | | | | |
| Post harvest technology and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **III. Soil Health and Fertility Management** | | | | | | | | | | | | | |
| Soil fertility management | 3 | | | | | | | | | | | | 90 |
| Soil and Water Conservation | | | | | | | | | | | | | |
| Integrated Nutrient Management | 5 | | | | | | | | | | | | 150 |
| Production and use of organic inputs | 1 | | | | | | | | | | | | 30 |
| Management of Problematic | 1 | | | | | | | | | | | | 30 |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| soils | | | | | | | | | | | | | |
| Micro nutrient deficiency in crops | 2 | | | | | | | | | | | | 60 |
| Nutrient Use Efficiency | | | | | | | | | | | | | |
| Soil and Water Testing | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | 12 | | | | | | | | | | | | 360 |
| **IV. Livestock Production and Management** | | | | | | | | | | | | | |
| Dairy Management | | | | | | | | | | | | | |
| Poultry Management | | | | | | | | | | | | | |
| Piggery Management | | | | | | | | | | | | | |
| Rabbit Management | | | | | | | | | | | | | |
| Disease Management | | | | | | | | | | | | | |
| Feed management | | | | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | | | | |
| Others, if any (Goat farming) | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **V. Home Science/Women empowerment** | | | | | | | | | | | | | |
| Household food security by kitchen gardening and nutrition gardening | | | | | | | | | | | | | |
| Design and development of low/minimum cost diet | | | | | | | | | | | | | |
| Designing and development for high nutrient efficiency diet | | | | | | | | | | | | | |
| Minimization of nutrient loss in processing | | | | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | | | | |
| Storage loss minimization techniques | | | | | | | | | | | | | |
| Enterprise development | | | | | | | | | | | | | |
| Value addition | | | | | | | | | | | | | |
| Income generation activities for empowerment of rural Women | | | | | | | | | | | | | |
| Location specific drudgery reduction technologies | | | | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | | | | |
| Capacity building | | | | | | | | | | | | | |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Women and child care | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **VI.Agril. Engineering** | | | | | | | | | | | | | |
| 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, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **VII. Plant Protection** | | | | | | | | | | | | | |
| Integrated Pest Management | 7 | | | | | | | | | | | | 210 |
| Integrated Disease Management | 3 | | | | | | | | | | | | 90 |
| Bio-control of pests and diseases | | | | | | | | | | | | | |
| Production of bio control agents and bio pesticides | | | | | | | | | | | | | |
| Others, if any | 2 | | | | | | | | | | | | 60 |
| TOTAL | 12 | | | | | | | | | | | | 360 |
| **VIII. Fisheries** | | | | | | | | | | | | | |
| Integrated fish farming | | | | | | | | | | | | | |
| Carp breeding and hatchery management | | | | | | | | | | | | | |
| Carp fry and fingerling rearing | | | | | | | | | | | | | |
| Composite fish culture & fish disease | | | | | | | | | | | | | |
| Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond | | | | | | | | | | | | | |
| Hatchery management and culture of freshwater prawn | | | | | | | | | | | | | |
| Breeding and culture of ornamental fishes | | | | | | | | | | | | | |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Portable plastic carp hatchery | | | | | | | | | | | | | |
| Pen culture of fish and prawn | | | | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | | | | |
| Edible oyster farming | | | | | | | | | | | | | |
| Pearl culture | | | | | | | | | | | | | |
| Fish processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **IX. 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 | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **X. Capacity Building and Group Dynamics** | | | | | | | | | | | | | |
| Leadership development | | | | | | | | | | | | | |
| Group dynamics | | | | | | | | | | | | | |
| Formation and Management of SHGs | | | | | | | | | | | | | |
| Mobilization of social capital | | | | | | | | | | | | | |
| Entrepreneurial development of farmers/youths | | | | | | | | | | | | | |
| WTO and IPR issues | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| **XI Agro-forestry** | | | | | | | | | | | | | |
| Production technologies | | | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | | | |
| Integrated Farming Systems | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **XII. Others (Pl. Specify)** | | | | | | | | | | | | | |
| **TOTAL** | 48 | | | | | | | | | | | | 1440 |

**Rural youth**

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Mushroom Production | 1 | | | | | | | | | | | | 15 |
| Bee-keeping | 1 | | | | | | | | | | | | 15 |
| Integrated farming | | | | | | | | | | | | | |
| Seed production | 2 | | | | | | | | | | | | 30 |
| Production of organic inputs | 1 | | | | | | | | | | | | 15 |
| Planting material production | 1 | | | | | | | | | | | | 15 |
| Vermi-culture | 1 | | | | | | | | | | | | 15 |
| Sericulture | | | | | | | | | | | | | |
| Protected cultivation of vegetable crops | | | | | | | | | | | | | |
| Commercial fruit production | | | | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| Nursery Management of Horticulture crops | | | | | | | | | | | | | |
| Training and pruning of orchards | | | | | | | | | | | | | |
| Value addition | 1 | | | | | | | | | | | | 15 |
| Production of quality animal products | | | | | | | | | | | | | |
| Dairying | | | | | | | | | | | | | |
| Sheep and goat rearing | | | | | | | | | | | | | |
| Quail farming | | | | | | | | | | | | | |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Piggery | | | | | | | | | | | | | |
| Rabbit farming | | | | | | | | | | | | | |
| Poultry production | | | | | | | | | | | | | |
| Ornamental fisheries | | | | | | | | | | | | | |
| Para vets | | | | | | | | | | | | | |
| Para extension workers | | | | | | | | | | | | | |
| Composite fish culture | | | | | | | | | | | | | |
| Freshwater prawn culture | | | | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | | | | |
| Pearl culture | | | | | | | | | | | | | |
| Cold water fisheries | | | | | | | | | | | | | |
| Fish harvest and processing technology | | | | | | | | | | | | | |
| Fry and fingerling rearing | | | | | | | | | | | | | |
| Small scale processing | | | | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | | | | |
| Tailoring and Stitching | | | | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | | | | |
| Enterprise development | | | | | | | | | | | | | |
| Others if any (ICT application in agriculture) | | | | | | | | | | | | | |
| TOTAL | 8 | | | | | | | | | | | | 120 |

**Extension functionaries**

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Productivity enhancement in field crops | 1 | | | | | | | | | | | | 10 |
| Integrated Pest Management | 2 | | | | | | | | | | | | 20 |
| Integrated Nutrient management | 2 | | | | | | | | | | | | 20 |
| Rejuvenation of old orchards | | | | | | | | | | | | | |
| Value addition | | | | | | | | | | | | | |
| Protected cultivation technology | 1 | | | | | | | | | | | | 10 |
| Formation and Management of SHGs | 1 | | | | | | | | | | | | 10 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Group Dynamics and farmers organization | 1 | | | | | | | | | | | | 10 |
| Information networking among farmers | 1 | | | | | | | | | | | | 10 |
| Capacity building for ICT application | 1 | | | | | | | | | | | | 10 |
| Care and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| WTO and IPR issues | | | | | | | | | | | | | |
| Management in farm animals | | | | | | | | | | | | | |
| Livestock feed and fodder production | | | | | | | | | | | | | |
| Household food security | | | | | | | | | | | | | |
| Women and Child care | | | | | | | | | | | | | |
| Low cost and nutrient efficient diet designing | | | | | | | | | | | | | |
| Production and use of organic inputs | | | | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | | | | |
| Crop intensification | 1 | | | | | | | | | | | | 10 |
| Others if any | 1 | | | | | | | | | | | | 10 |
| TOTAL | 12 | | | | | | | | | | | | 120 |

## 4. Frontline demonstration to be conducted*

| Sl. No. | Crop | Blackgram |
|---|---|---|
| 1 | Thrust Area | Low yield due to weed infestation in kharif black gram |
| | Thematic Area | Integrated weed management |
| | Season | Kharif,2021 |
| | Farming Situation | Kharif, Upland Rainfed |
| 2 | Crop | Rice |
| | Thrust Area | Low yield due to infestation of disease & Pest. |
| | Thematic Area | Varietal evaluation |
| | Season | Kharif 2021 |
| | Farming Situation | Rainfed, Medium land |
| 3 | Crop | Linseed |
| | Thrust Area | Poor selection of crop and variety in rice-fallow as paira crop |
| | Thematic Area | Varietal evaluation |
| | Season | Rabi,2020-21 |
| | Farming Situation | Rainfed, medium land , Rice fallow |
| 4 | Crop | Onion |
| | Thrust Area | Low income of rabi onion due to glut production |
| | Thematic Area | Varietal evaluation |
| | Season | Kharif 2021 |
| | Farming Situation | Upland, Rainfed, Kharif |
| 5 | Crop | Spinegourd |
| | Thrust Area | Low yield due to use of local varieties |
| | Thematic Area | Varietal evaluation |
| | Season | Kharif, 2020 |
| | Farming Situation | Upland, Rainfed,Kharif |
| 6 | Crop | Ginger |
| | Thrust Area | Low yield due to local variety |
| | Thematic Area | Varietal evaluation |
| | Season | Kharif 2021 |
| | Farming Situation | Rainfed medium land |
| 7 | Crop | Custard apple |
| | Thrust Area | Low yield in local custard apple variety with less self life |
| | Thematic Area | Varietal evaluation |
| | Season | Kharif 2021 |
| | Farming Situation | Rainfed medium land |
| 8 | Crop | Pointed gourd |
| | Thrust Area | No awareness regarding fruit flies infestation |
| | Thematic Area | Integrated pest management |
| | Season | Kharif-2021 |
| | Farming Situation | Rainfed upland |

| | | |
|---|---|---|
| 9 | Crop | Groundnut |
| | Thrust Area | Lack of conviction on timing of pesticide application |
| | Thematic Area | Integrated pest management |
| | Season | Kharif-2021 |
| | Farming Situation | Irrigated upland |
| 10 | Crop | Onion |
| | Thrust Area | Proper identification of disease and lack of conviction on timing of pesticide application |
| | Thematic Area | Integrated disease management |
| | Season | Rabi 21-22 |
| | Farming Situation | Irrigated Upland |
| 11 | Crop | Cabbage |
| | Thrust Area | Proper knowledge on time of infestation and lack of conviction on timing of pesticide application |
| | Thematic Area | Integrated disease management |
| | Season | Rabi 2021-22 |
| | Farming Situation | Irrigated Upland |
| 12 | Crop | Onion |
| | Thrust Area | Yield enhancement in vegetable crops through balanced nutrient application |
| | Thematic Area | Integrated nutrient management |
| | Season | Rabi 2021-22 |
| | Farming Situation | Irrigated medium land, rice-vegetable cropping system |
| 13 | Crop | Pointed gourd |
| | Thrust Area | Poor fruit quality |
| | Thematic Area | Integrated nutrient management |
| | Season | Rabi 2021-22 |
| | Farming Situation | Irrigated medium land, rice-vegetable cropping system |

| Sl. No. | Crop & variety / Enterprises | Proposed Area (ha)/Unit (No.) | Technology package for Demonstration | Parameter (Data) in Relation to technology demonstrated | Cost of Cultivation (Rs.) | | | No. of farmers / demonstration | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Name of Inputs | Demo | Local | SC | | ST | | Other | | Total | | |
| | | | | | | | | M | F | M | F | M | F | M | F | T |
| 1 | Blackgram | 1.0 | Pre-emergence application of pendimethalin @ 1.0 kg a.i./ha which inhibits important perennial and annual species of grasses, broadleaf and sedges | Weed flora composition, Weed count/ m2 , No of nodules/ plant, No. of pods /plant, Seeds/pod | Pre-emergence application of pendimethalin @ 1.0 kg a.i./ha | | | | | | | | | | | 10 |
| 2 | Rice | 2.0 | CR-Dhan-307 ( Maudamani) irrigated ,135 days duration ,grain type-short bold, resistant against the pest stem borer, leaf folder, Green leaf hopper, gall midge, while it showed moderate reaction to WBPH, rice hispa, rice,thrips & moderately | Effective panicles/ $m^2$ , No of filled grains / panicle , 1000 grain weight | Growing of rice variety CR-Dhan 307-maudamani. | | | | | | | | | | | 10 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | resistant to blast, neckblast, brown spot sheath blight. | | | | | | | | | | | | | | |
| 3 | Linseed | 1.0 | Duration - 104days, Average Yield-8.49t/ha, Potential Yield-12t/ha. Resistance to Altenaria Blight. | Branches/plant, Balls/plant, Seeds/ball | Growing of Linseed Var. Arpita | | | | | | | | | | | | 10 |
| 4 | Onion | 1.0 | Agri found dark red bulbs are dark red, globular in shape,4-6 cm in size with tight skin, moderately pungent. Plant matures in 95-110 days after transplanting. Average yield is (219.91 q/ha). | Plant height, Days to maturity, Days to harvest, Average bulb weight(g), farmers feed back, B:C ratio | Growing kharif onion variety Agri found dark red | | | | | | | | | | | | 10 |
| 5 | Spinegourd | 1.0 | Arka Neelanchal Shree is developed through selection, high yielding (15-16 kg/vine) | Plant height, No. of fruits per plant, Average fruit weight per plant, Yield/ha, B:C ratio | Growing of Arka Neelanchal Shree variety of Spinegourd | | | - | - | 2 | - | 8 | - | 10 | - | 10 | |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | with medium sized fruit (20g), good appearance, high market preference | | | | | | | | | | | | | |
| 6 | Ginger | 0.4 | Var. Subhada ginger rhizome skin color is glazy covered with brown scale leafs, cylindrical medium bold finger with short internode. yield 18 t/ha and 26.8% higher than suprava | Wt. of rhizome (gm), yield (q/ha), B:C ratio | Subhada variety of ginger | | | 1 | - | 2 | 1 | 4 | 2 | 7 | 3 | 10 |
| 7 | Custard apple | 0.4 | Arka Neelanchal Vikram is a high yielding variety, Avg. 69 fruits/plant, Fruit weight (211g), TSS (23.5 Brix) and long shelf life (5.5 days) | Days to maturity , Fruit weight, No. of fruits per plant , Shelf life | Var. Arka Neelanchal Vikram | | | | | | | | | | | 10 |
| 8 | Pointed gourd | 0.4 | Erection Cuelure (para pheromone trap) @ 8 nos. per hactre to attract and trap | % infestation, cost of intervention, additional income over additional | Management practices with biological and | | | | | | | | | | | 10 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | male fruit flies followed by™ spray Indoxacarb 14.5% SC @ 0.5 ml/l before maturity of fruits | investment, yield (q/ha), B:C ratio | chemical measures | | | | | | | | | | | |
| 9 | Groundnut | 1.0 | Seed treatment with carboxin 37.5% + Thiram 37.5 % (Vitavax power) @ 2.5 gm/ kg seeds during sowing and need base alternative spraying of chlorothalonil 75% wp (Kavach) @ 1.5 gm/lt. and carbendazim 2 gm/lt at 15 days interval. | % infection, cost of intervention, additional income over additional investment, yield (q/ha), B:C ratio | Management practices with seed treatment and chemical measures | | | | | | | | | | | 10 |
| 10 | Onion | 1.0 | Seed treatment with *Pseudomonas fluroscens* @ 5kg/ha followed by two spray of Difenconazole 25% EC @ 0.6 ml/lit interspersed with a spray of | % infection, cost of intervention, additional income over additional investment, yield (q/ha), B:C ratio | Management practices with seed treatment and chemical measures | | | | | | | | | | | 10 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | *Pseudomonas fluroscens* at 0.5% at 15 days intervals | | | | | | | | | | | | | | |
| 11 | Cabbage | 1.0 | DBM population was significantly reduced by application of Cyantraniliprole 10% OD @ 2ml/lit with 76.02 per cent protection over untreated control | % infestation, cost of intervention, additional income over additional investment, yield (q/ha), B:C ratio | Management practices with chemical measures | | | | | | | | | | | | 10 |
| 12 | Onion | 0.4 | Application of 20 kg sulphur/ha as basal dose along with RDF:120:60:100 NPK | Bulb wt., bulb diameter, yield(q/ha), B:C ratio | Var. Agrifound dark red | | | | | | | | | | | | 10 |
| 13 | Pointed gourd | 0.4 | Consortia of azotobacter + azospirillum + PSM @4kg/ha inoculated to 300 kg of FYM/vermicompost mixed with 15 kg of lime incubated at 30% moisture for a week | Vine length, no. of fruits/vine, average fruit wt., yield(q/ha), B:C ratio | Var. Swarnarekha | | | | | | | | | | | | 10 |

**Extension and Training activities under FLD:**

| Activity | Title of Activity | No. | Clientele | Duration | Venue On/Off | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SC | | ST | | Other | | Total | | |
| | | | | | | M | F | M | F | M | F | M | F | T |
| Training | 1. Nursery management of kharif onion. 2.Training on scientific method of kharif onion cultivation | 2 | 60 | 1 | off | 5 | 5 | 20 | 5 | 20 | 5 | 45 | 15 | 60 |
| Field day | Field day on nursery raising of kharif onion | 1 | 30 | 1 | off | 5 | 3 | 9 | 2 | 8 | 3 | 22 | 8 | 30 |
| Training | 1. Training on scientific cultivation practices of spinegourd 2. Training on quality planting material production of spinegourd | 1 | 30 | 1 | off | - | - | 10 | 5 | 10 | 5 | 20 | 10 | 30 |
| KMA, Leaf let | Leaf let publication on improved | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | spinegourd cultivation | | | | | | | | | | | | | |
| Training | Training on scientific cultivation practices of custard apple | 1 | 30 | 1 | Off | 5 | 3 | 9 | 2 | 8 | 3 | 22 | 8 | 30 |
| Method demonstration | Method demonstration on training and pruning technology in custard apple | 1 | 30 | 1 | Off | - | - | 10 | 5 | 10 | 5 | 20 | 10 | 30 |
| Training | Training on scientific cultivation practices of ginger as intercrop in mango orchard | 1 | 30 | 1 | Off | 3 | - | 9 | 4 | 8 | 6 | 20 | 10 | 30 |
| Leaflet, QPM Production | 1. Leaflet on intercropping of ginger in mango orchard.<br>2. QPM production in ginger | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Training | Scientific cultivation method of onion | | | | | | | | | | | | | 30 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Method demonstration | Fertilizer management in onion | | | | | | | | | | | | | 30 |
| Leaflet, KMA | 1. Leaflet on fertilizer management practices in onion | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Training | Use of bio fertilizer application in pointed gourd for yield enhancement | | | | | | | | | | | | | 30 |

**5. a) Seed and planting material production by utilization of instructional farm (Crops / Enterprises)**

| Name of the Crop / Enterprise | Variety / Type | Period From…… to ……. | Area (ha.) | Details of Production | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Type of Produce | Expected Production (No. /quintal) | Cost of inputs (Rs.) | Expected Gross income (Rs.) | Expected Net Income (Rs.) |
| Sunhemp | TL | January 2021 – December 2021 | 2.0 | Seed | 6 | 1,500.00 | 12,000.00 | 10,500.00 |
| Pigeonpea | FS | January 2021 – December 2021 | 1.0 | Seed | 5 | 5,200.00 | 51,900.00 | 46,700.00 |
| Brinjal | Tarini | January 2021 – December 2021 | 0.1 | Seedling | 10,000 | 900.00 | 10000.00 | 9100.00 |
| Tomato | Saksham, Arka Rakshak, Arka Samrat | January 2021 – December 2021 | 0.1 | Seedling | 10,000 | 780.00 | 10000.00 | 9220.00 |
| Cauliflower | Megha | January 2021 – December 2021 | 0.1 | Seedling | 10,000 | 800.00 | 15000.00 | 14200.00 |
| Chilli | Siamhot | January 2021 – | 0.1 | Seedling | 10,000 | 560.00 | 10000.00 | 9440.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | December 2021 | | | | | | |
| Onion | Agrifound dark red | January 2021 – December 2021 | 0.1 | Seedling | 10,000 | 320.00 | 5000.00 | 4680.00 |
| Cabbage | Green challenger | January 2021 – December 2021 | 0.1 | Seedling | 10,000 | 550.00 | 10000.00 | 9450.00 |
| Brocolli | Chow chow | January 2021 – December 2021 | 0.1 | Seedling | 10,000 | 750.00 | 10000.00 | 9250.00 |
| Chinese cabbage | Indam cupper | January 2021 – December 2021 | 0.1 | Seedling | 10,000 | 650.00 | 10000.00 | 9350.00 |
| Capsicum | Krishna | January 2021 – December 2021 | 0.1 | Seedling | 10,000 | 500.00 | 10000.00 | 9500.00 |
| Red cabbage | Red Ruby | January 2021 – December 2021 | 0.1 | Seedling | 10,000 | 660.00 | 10000.00 | 9340.00 |
| Knolkhol | Surya 15 | January 2021 – December 2021 | 0.1 | Seedling | 10,000 | 740.00 | 10000.00 | 9260.00 |
| Marigold | BM-1 | January 2021 – December 2021 | 0.1 | Seedling | 5000.00 | 6000.00 | 50000.00 | 44000.00 |

**b) Village Seed Production Programme**

| Name of the Crop / Enterprise | Variety / Type | Period From…… to …….. | Area (ha.) | No. of farmers | Details of Production | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Type of Produce | Expected Production(q) | Cost of inputs (Rs.) | Expected Gross income (Rs.) | Expected Net Income (Rs.) |
| | | | | | | | | | |
| | | | | | | | | | |

## 6. Extension Activities

| Sl. No. | Activities/ Sub-activities | No. of activities proposed | Farmers | | | | Extension Officials | | | Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | M | F | T | SC/ ST (% of total) | Male | Female | Total | Male | Female | Total |
| 1 | Field Day | 4 | | | | | | | | | | 120 |
| 2 | Kisan Mela | 2 | | | | | | | | | | 530 |
| 3 | Kisan Ghosthi | 2 | | | | | | | | | | 40 |
| 4 | Exhibition | 2 | | | | | | | | | | - |
| 5 | Film Show | 2 | | | | | | | | | | 50 |
| 6 | Method Demonstrations | 5 | | | | | | | | | | 60 |
| 7 | Farmers Seminar | 1 | | | | | | | | | | 45 |
| 8 | Workshop | 1 | | | | | | | | | | 40 |
| 9 | Group meetings | 25 | | | | | | | | | | 275 |
| 10 | Lectures delivered as resource persons | 15 | | | | | | | | | | 375 |
| 11 | Advisory Services | 36 | | | | | | | | | | 145 |
| 12 | Scientific visit to farmers field | 84 | | | | | | | | | | 840 |
| 13 | Farmers visit to KVK | - | | | | | | | | | | 1000 |
| 14 | Diagnostic visits | 40 | | | | | | | | | | 275 |
| 15 | Exposure visits | 2 | | | | | | | | | | 30 |
| 16 | Ex-trainees Sammelan | 2 | | | | | | | | | | 60 |
| 17 | Soil health Camp | 5 | | | | | | | | | | 160 |
| 18 | Animal Health Camp | 2 | | | | | | | | | | 75 |
| 19 | Soil test campaigns | 5 | | | | | | | | | | 125 |
| 20 | Farm Science Club Conveners meet | 1 | | | | | | | | | | 55 |
| 21 | Self Help Group Conveners meetings | 1 | | | | | | | | | | 65 |
| 22 | Mahila Mandals Conveners meetings | 1 | | | | | | | | | | 60 |
| 23 | Celebration of important days (specify) | 3 | | | | | | | | | | 115 |
| 24 | Green manure campaign | 3 | | | | | | | | | | 90 |
| 25 | Swatchta Hi Sewa | 5 | | | | | | | | | | 190 |
| 26 | Field Day | 4 | | | | | | | | | | 120 |
| 28 | Total | 253 | | | | | | | | | | 4940 |

**7. Revolving Fund (in Rs.)**

| Opening balance of 2020-21 (As on 01.04.2021) | Amount proposed to be invested during 2021 | Expected Return |
|---|---|---|
| 1,12,409.00 | 1,00,000 | 2,40, 000 |

**8. Expected fund from other sources and its proposed utilization**

| Project | Source | Amount to be received (Rs. in lakh) |
|---|---|---|
| OMBADC | Govt. of odisha. | 300.0 |

**9. On-farm trials to be conducted***

| Sl. No. | Season | Kharif 2021 |
|---|---|---|
| 1 | Title of the OFT | Assessment of long duration High yielding rice variety in kharif |
| | Thematic Area | Varietal evaluation |
| | Problem diagnosed | Low yield in existing old long duration variety for proximity to various pest and diseases |
| | Important Cause | Existing pooja variety is too old and prone to disease and pests |
| | Production system | Rice-pulse |
| | Micro farming system | Rainfed Low land |
| | Technology for Testing | $TO_1$: Mrunalini : Small bold grains, Semi dwarf, Maturity-146days, Moderately resistant to blast, sheath blight, sheath rot, Resistance to gall midge, yellow stem borer, leaf folder, resistance to lodging<br>$TO_2$: Pradhan dhan (CR Dhan 409) shallow lowlands of Odisha state,Maturity-160 days. Semi dwarf, non-lodging plant type, height -120-130cm, long slender grain, 350-400 panicles per $m^2$, high tillering (12-15) , test weight of 22.5g, moderate submergence tolerance, moderately resistant to leaf blast, neck blast, sheath blight, sheath rot, yellow stem borer |
| | Existing Practice | Pooja |
| | Hypothesis: | New variety performs better |
| | Objective(s) | To increase productivity |
| | Treatments | |
| | (a) Farmers Practice (FP) | Pooja |
| | (b) Technology option-I (TO-I) | Mrunalini |
| | (c) Technology option-II (TO-II): and so on | Pradhan Dhan(CR Dhan409) |
| | Critical Inputs | Seeds, pesticide |
| | Unit Size | 1 acre |
| | No of Replications | 7 |
| | Unit Cost | 1,000 |
| | Total Cost | 7,000 |
| | Monitoring Indicator | Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio |
| | Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): | Source: NRRI Annual Report,2014-15 |

| | | |
|---|---|---|
| 2 | Season | Summer, 2021 |
| | Title of the OFT | Assessment of foliar application of macro nutrients in summer green gram in rice-pulse cropping system |
| | Thematic Area | Integrated nutrient management. |
| | Problem diagnosed | Low yield due to less pod formation and poor pod filling |
| | Important Cause | Low yield in summer greengram |
| | Production system | Rice-pulse |
| | Micro farming system | Irrigated, medium land |
| | Technology for Testing | TO1- Foliar application of 2% DAP twice during flowering and pod filling stage<br>TO2- Foliar application of 2% 19:19:19 (N:P:K) during flowering stage |
| | Existing Practice | Application of DAP 25kg/ha |
| | Hypothesis: | Technology is better |
| | Objective(s) | Test of new technology |
| | Treatments | |
| | (d) Farmers Practice (FP) | Application of DAP 25kg/ha |
| | (e) Technology option-I (TO-I) | Foliar application of 2% DAP twice during flowering and 15 days after 1st spray |
| | (f) Technology option-II (TO-II): and so on | Foliar application of 2% 19:19:19 (N:P:K) during flowering stage |
| | Critical Inputs | Seed, macro nutrients |
| | Unit Size | 1 acre |
| | No of Replications | 7 |
| | Unit Cost | 1,000 |
| | Total Cost | 7,000 |
| | Monitoring Indicator | Cost of intervention, Additional income over additional investment, Yield (q/ha), B:C ratio |
| | Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): | AICRP on MULLaRP, 2014 |
| 3 | Season | Kharif 2021 |
| | Title of the OFT | Assessment of sweet potato varieties for Deogarh District |
| | Thematic Area | Varietal evaluation |
| | Problem diagnosed | Low yield from local varieties |
| | Important Cause | Low yield |
| | Production system | Sweet potato-fallow |
| | Micro farming system | Rainfed up land |
| | Technology for Testing | TO1:Cultivation of Orange fleshed sweet potato var. ST-14, (Bhu Sona)<br>TO2:Cultivation of Purple fleshed sweet potato var. ST-13 (Bhu Krishna) |
| | Existing Practice | Local variety (Nali kandamula) |
| | Hypothesis: | New varieties perform better |
| | Objective(s) | To increase productivity |
| | Treatments | |
| | (g) Farmers Practice (FP) | Local variety (Nali kandamula) |
| | (h) Technology option-I (TO-I) | ST-14 (Bhu Sona) is a β-carotene rich variety (mg 100g-1) : 11.5-12,Cooking quality : Excellent , Average yield : 19.8 t ha-1,Can tolerate salinity stress (6-8 dS m-1) |

| | | |
|---|---|---|
| | (i) Technology option-II (TO-II): and so on | ST-13 (Bhu Krishna) is an anthocyanin rich variety (mg 100g-1) : 85-90,Cooking quality : Fair,Average yield : 18 t ha-1,Can tolerate salinity stress (6-8 dS $m^{-1}$) |
| | Critical Inputs | vines, feriliser |
| | Unit Size | 0.4 |
| | No of Replications | 10 |
| | Unit Cost | 1800 |
| | Total Cost | 18000 |
| | Monitoring Indicator | Days to maturity, Tuber weight(g),Tuber yield per plant |
| | Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): | Annual Report,2018-2019, CTCRI, Bhubaneswar |
| 4 | Season | Rabi 2021-22(Year II) |
| | Title of the OFT | Assessment of different PGR application for regular bearing in Mango |
| | Thematic Area | Integrated crop management |
| | Problem diagnosed | Low income due to irregular bearing |
| | Important Cause | Irregular bearing |
| | Production system | Mango orchard based |
| | Micro farming system | Irrigated Upland |
| | Technology for Testing | Application of Paclobutrazol @ 3.2ml/ meter canopy diameter through soil drenching during September for non-bearing trees during first fortnight of September will induce flowering and fruit set yield during off years<br>Application of total 5 sprays of ethephon 200ppm , 1st spray in Mid October and subsequent sprays in fortnightly interval to control alternate bearing in Mango |
| | Existing Practice | No use of PGR |
| | Hypothesis: | PGR application gives regular bearing |
| | Objective(s) | PGR application gives regular bearing |
| | Treatments | |
| | (j) Farmers Practice (FP) | No use of PGR |
| | (k) Technology option-I (TO-I) | Paclobutrazol 3.2 ml / meter canopy diameter |
| | (l) Technology option-II (TO-II): and so on | Ethephon 200 ppm |
| | Critical Inputs | PGR, Paclobutrazol |
| | Unit Size | 1 acre |
| | No of Replications | 7 |
| | Unit Cost | 1200 |
| | Total Cost | 8400 |
| | Monitoring Indicator | Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio |
| | Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): | IIHR Annual Report 2017-18 |
| 5 | Season | Kharif 2021 (Year-I) |
| | Title of the OFT | Assessment of IPM module for management of panicle mites in rice |
| | Thematic Area | Integrated pest management |
| | Problem diagnosed | Fails to diagnose the pest due to symptom appears during grain filling stage |

| | | |
|---|---|---|
| | Important Cause | Yield loss due to panicle mite |
| | Production system | Rice- pulse |
| | Micro farming system | Rainfed medium and upland |
| | Technology for Testing | TO1-Grain yield in application of Diafenthuron + Propiconazole combination is 7040kg/ha<br>TO2-Grain yields are better in application of Milbemectin + Propiconzole combination is 7564kg/ ha |
| | Existing Practice | No use of pesticides as the symptom appears during grain filling stage |
| | Hypothesis: | Heavy yield loss due to panicle mite |
| | Objective(s) | Management of panicle mite in rice |
| | Treatments | |
| | (m) Farmers Practice (FP) | No use of pesticides as the symptom appears during grain filling stage |
| | (n) Technology option-I (TO-I) | Application of Diafenthiuron 50 wp @ 1g/lit + Propiconazole 25 EC @ 1ml/lit at PI stage |
| | (o) Technology option-II (TO-II): and so on | Grain yields are better in application of Milbemectin + Propiconzole combination is 7564kg/ ha |
| | Critical Inputs | seed, pesticides |
| | Unit Size | 1 acre |
| | No of Replications | 7 |
| | Unit Cost | 2500 |
| | Total Cost | 17500 |
| | Monitoring Indicator | No. of sterile spikelets/panicle and no. of discoloured spikelets/panicle, yield (q/ha), B:C ratio |
| | Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): | JNKVV Research Journal 48(1) : 104-105 (2014) |
| 6 | Season | Kharif 2021 (Year-I) |
| | Title of the OFT | Assessment of IDM module for management of Erwinia rot in banana |
| | Thematic Area | Integrated disease management |
| | Problem diagnosed | Lack of conviction on timing of pesticide application |
| | Important Cause | Loss due to Erwinia rot |
| | Production system | Banana orchard |
| | Micro farming system | Irrigated upland |
| | Technology for Testing | Among the treatments imposed, drenching and foliar spray of copper oxychloride 50WP at 3 g/l + streptomycin sulphate 0.5 g/l at 15 days interval beginning from 15 days after planting and application of bleaching powder 25 g/plant/month two inches away from pseudostem around the collar region upto four months was found most effective |
| | Existing Practice | Use of Mancozeb @ 2g/lit after severe infection |
| | Hypothesis: | mgt of Erwinia rot |
| | Objective(s) | Management of the disease |
| | Treatments | |
| | (p) Farmers Practice (FP) | Use of Mancozeb @ 2g/lit after severe infection |
| | (q) Technology option-I (TO-I) | Application of bleaching powder 25 g/plant/month two inches away from pseudostem around the collar region upto four months |
| | (r) Technology option-II (TO-II): and so on | Drenching and foliar spray of copper oxychloride 50WP at 3 g/l + streptomycin sulphate 0.5 g/l at 15 days interval beginning from 15 days after planting |
| | Critical Inputs | fungicides |
| | Unit Size | 1 acre |

| | | |
|---|---|---|
| | No of Replications | 7 |
| | Unit Cost | 1500 |
| | Total Cost | 10500 |
| | Monitoring Indicator | % infection, cost of intervention, additional income over additional investment yield (q/ha), B:C ratio |
| | Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): | International Journal of Plant Protection, 2017 |
| 7 | Season | Rabi 2021-22 (Year-III) |
| | Title of the OFT | Assessment of IPM module for management of fruit sucking moth in sweet orange |
| | Thematic Area | Integrated pest management |
| | Problem diagnosed | Fruit sucking moth causes fruit drop at colour breaking stage |
| | Important Cause | Lack of knowledge on management of fruit sucking moth |
| | Production system | Sweet orange orchard |
| | Micro farming system | Irrigated upland, Orchard based |
| | Technology for Testing | TO1- Neem oil forms a coating on the insect's body, blocking the breathing openings and suffocating the insect.<br>TO2-Poison bait attracts and kills the insect whereas by destroying larval host plant reduces the insect population during off season |
| | Existing Practice | Fire in every evening hour in orchard which fails to control the population of the moths |
| | Hypothesis: | IPM module ll manage the infestation |
| | Objective(s) | To control fruit sucking moth. |
| | Treatments | |
| | (s) Farmers Practice (FP) | Fire in every evening hour in orchard which fails to control the population of the moths |
| | (t) Technology option-I (TO-I) | Foliar application of neem oil (1%) at 10 days interval at coinciding with colour breaking stage. |
| | (u) Technology option-II (TO-II): and so on | Poison bait with 10g malathion+100g jaggery+100ml orange juice+900ml water and destroy the laraval host plants like *Tinospora cordifolia*, *Cocculus vilosus* in the vicinity of orchard |
| | Critical Inputs | Neem oil (1%), 10g malathion+100g jaggery+100ml orange juice + 900ml water |
| | Unit Size | 1 acre |
| | No of Replications | 7 |
| | Unit Cost | 2500 |
| | Total Cost | 17500 |
| | Monitoring Indicator | % infestation, Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio, |
| | Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): | Annual Report, ICAR-NRCC, 2016 |

**10. List of Projects to be implemented by funding from other sources (other than KVK fund)**

| Sl. No. | Name of the project | Funding authority | Fund expected (Rs.) |
|---|---|---|---|
| 1 | OMBADC | Govt. of Odisha | 300.0 lakh |

**11. No. of success stories proposed to be developed with their tentative titles : 2**

- Technology introduction gives more return
- Mushroom lady of the district: An example

**12. Scientific Advisory Committee**

| Date of SAC meeting held during 2020 | Proposed date during 2021 |
|---|---|
| 12.01.2021 | **22.12.2021** |

**13. Soil and water testing**

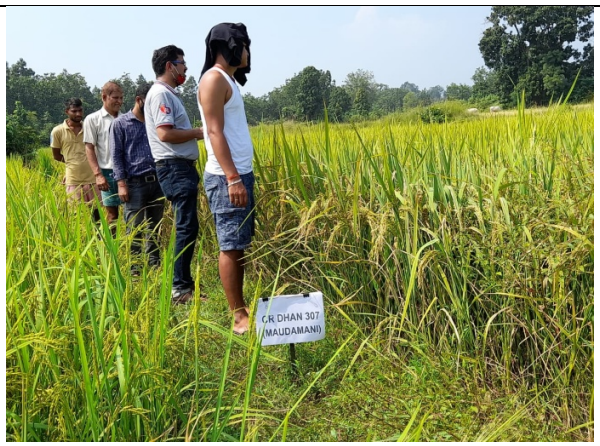
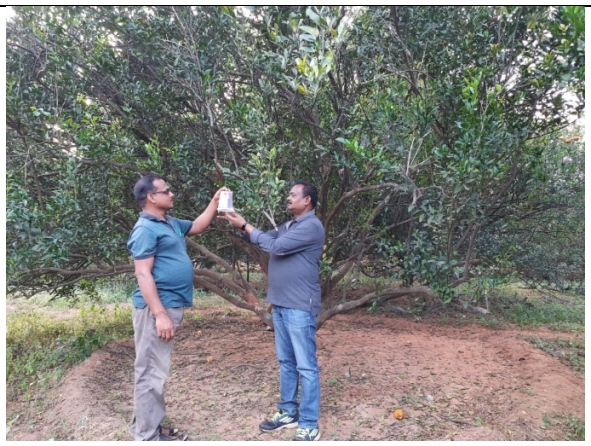
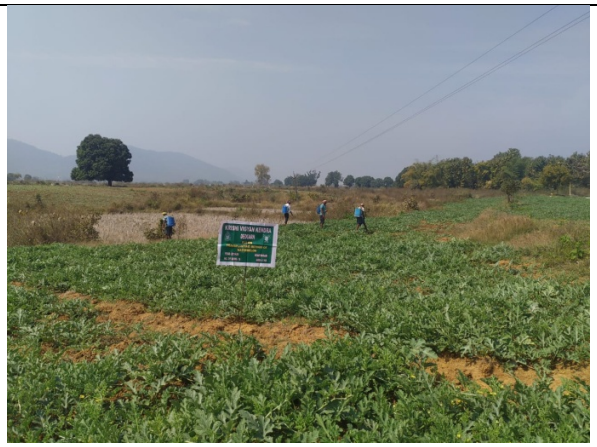
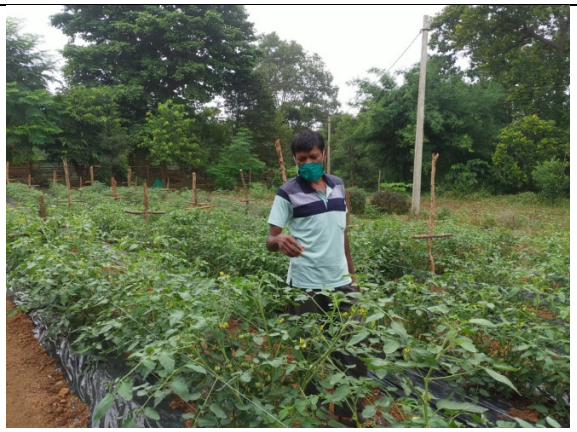
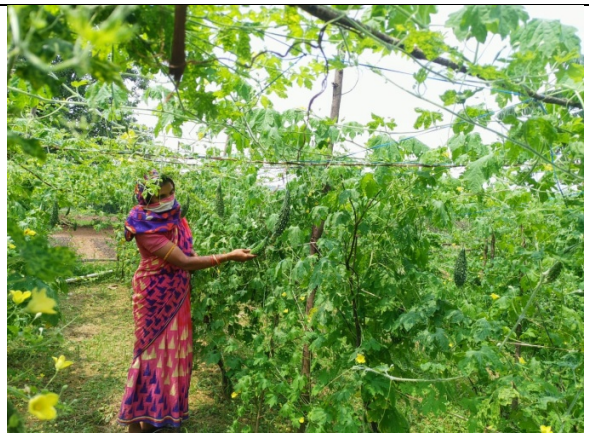
| Details | No. of Samples | No. of Farmers | | | | | | | | | No. of Villages | No. of SHC distributed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | SC | | ST | | Other | | Total | | | | |
| | | M | F | M | F | M | F | M | F | T | | |
| Soil Samples | 500 | | | | | | | 2200 | 800 | 3000 | 16 | 3000 |
| Water Samples | | | | | | | | | | | | |
| Other (Please specify) | | | | | | | | | | | | |
| Total | 500 | | | | | | | 2200 | 800 | 3000 | 16 | 3000 |

**14. Fund requirement and expenditure (Rs.)***

| Heads | Expenditure (last year) (Rs.) | Expected fund requirement (Rs.) |
|---|---|---|
| Pay & Allowances | 69,00,000/- | 80,00,000/- |
| Traveling allowances | 1,00,000/- | 1,00,000/- |
| OE | 4,78,000/- | 5,00,000/- |
| POL | | |
| VT/TM/EXT. ACT./RY | 3,62,000/- | 4,00,000/- |
| OFT | 1,80,000/- | 1,40,000/- |
| FLD | 1,80,000/- | 1,80,000/- |
| SCSP | 2,15,000/- | 2,00,000/- |
| Maintenance of building | 1,00,000/- | 1,00,000/- |
| Library | 10,000/- | 10,000/- |
| **Total** | **85,25,000/-** | **96,30,000/-** |

* Any additional requirement may be suitably justified.

**15. Every KVK should give quality photographs about the technology having wide acceptability among the farming community of the district with factual data**

| | |
|---|---|
|  |  |
| Assessment of long duration high yielding rice variety | IPM module for management of fruit socking moth in sweet orange |
|  |  |
| Demonstration on transplanting method of watermelon | Assessment on different types of trellis in tomato |
|  |  |
| Demonstration of trellis system in bittergourd | Growing kharif onion variety Agri found dark red |