**REVISED PROFORMA FOR ACTION PLAN 2021**

1. Name of the KVK: BALASORE

|  |  |  |
| --- | --- | --- |
| Address | Telephone | E mail |
| AT/PO-Devog, Via- Singla, Balasore, Pin-756023 | 9437460806 | - | kvkbalasore.ouat@gmail.com |

1. **Name of host organization** :

|  |  |  |
| --- | --- | --- |
| Address | Telephone | E mail |
| Office | FAX |  |
| OUAT, Unit 8, Near Post Office, Surya Nagar, Bhubaneswar, Odisha 751003 | - | - | deanextensionouat@yahoo.com |

1. **Training programme to be organized (Dec 2021)**
2. **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** |
| **Agronomy** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nutritional security | Biofertified cultivars of different crops and their characteristics | 1 | 1 day | Off | June |  |  |  |  |  |  |  |  | 30 |
| Weed management | Integrated weed management in transplanted Rice | 1 | 1 day | Off | August |  |  |  |  |  |  |  |  | 30 |
| Integrated crop management | Contingent crop planning | 1 | 1 day | Off | August |  |  |  |  |  |  |  |  | 30 |
| Integrated crop management | Integrated crop management practices of Maize | 1 | 1 day | Off | October |  |  |  |  |  |  |  |  | 30 |
| Crop diversification | Crop diversification in rice-rice cropping system | 1 | 1 day | Off | October |  |  |  |  |  |  |  |  | 30 |
| Water management | Management of waterlogged soils | 1 | 1 day | Off | July |  |  |  |  |  |  |  |  | 30 |
| Integrated crop management | Crop management practices under intercropping | 1 | 1 day | Off | July |  |  |  |  |  |  |  |  | 30 |
| Cropping systems | Cropping intensification in rice fallow area | 1 | 1 day | Off | November |  |  |  |  |  |  |  |  | 30 |
| Weed management | Integrated weed management in direct seeded rice | 1 | 1 day | Off | November |  |  |  |  |  |  |  |  | 30 |
| Integrated crop management | Integrated crop management of pulses | 1 | 1 day | Off | December |  |  |  |  |  |  |  |  | 30 |
| Weed management | Integrated Weed Management in groundnut | 1 | 1 day | Off | December |  |  |  |  |  |  |  |  | 30 |
| **Soil Science** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production of organic inputs | Preparation of quality compost | 1 | 1 | Off | June |  |  |  |  |  |  |  |  | 30 |
| Micronutrient deficiency in crops | Micro and secondary nutrient application in rice | 1 | 1 | Off | August |  |  |  |  |  |  |  |  | 30 |
| Problematic soil management | Management of acid soil | 1 | 1 | Off | August |  |  |  |  |  |  |  |  | 30 |
| INM | INM in Pulses | 1 | 1 | Off | October |  |  |  |  |  |  |  |  | 30 |
| INM | INM in tomato | 1 | 1 | Off | October |  |  |  |  |  |  |  |  | 30 |
| INM | INM in cole crops  | 1 | 1 | Off | July |  |  |  |  |  |  |  |  | 30 |
| INM | INM in Betel vine  | 1 | 1 | Off | July |  |  |  |  |  |  |  |  | 30 |
| INM | INM in pointed gourd  | 1 | 1 | Off | November |  |  |  |  |  |  |  |  | 30 |
| INM | INM in Banana  | 1 | 1 | Off | November |  |  |  |  |  |  |  |  | 30 |
| Soil & water testing | Importance of soil testing and balanced fertilizer application in crops  | 1 | 1 | Off | December |  |  |  |  |  |  |  |  | 30 |
| INM | INM in Brinjal  | 1 | 1 | Off | December |  |  |  |  |  |  |  |  | 30 |
| INM | Use of nano nutrients in Paddy  | 1 | 1 | Off | December |  |  |  |  |  |  |  |  | 30 |
| **Plant Protection** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IPM | IPM for BPH management | 01 | 01 | Off | 1st week of Sept. |  |  |  |  |  |  |  |  | 30 |
| IPM | Management of mite in different crops | 01 | 01 | Off | Last week of August |  |  |  |  |  |  |  |  | 30 |
| IPM | IPM in Green gram & black gram | 01 | 01 | Off | Last week of December |  |  |  |  |  |  |  |  | 30 |
| IDM | IDM in Paddy | 01 | 01 | Off | 1st week of July |  |  |  |  |  |  |  |  | 30 |
| IDM | IDM in Onion | 01 | 01 | Off | 1st week of Nov. |  |  |  |  |  |  |  |  | 30 |
| IPM | IPM in Brinjal | 01 | 01 | Off | Last week of June |  |  |  |  |  |  |  |  | 30 |
| IPM | IPM in Mustard | 01 | 01 | Off | Last week of Nov |  |  |  |  |  |  |  |  | 30 |
| IPM | Pest management in organic vegetable cultivation | 01 | 01 | Off | 1st week of October |  |  |  |  |  |  |  |  | 30 |
| **Forestry** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated farming system | Agro-forestry models for sustainable management of waste land | 01 | 01 day | Off campus | 1st week of Sept |  |  |  |  |  |  |  |  | 30 |
| Production technologies | Package & practices of Eucalyptus spp.  | 01 | 01 day | Off campus | 1st week of july |  |  |  |  |  |  |  |  | 30 |
| Production technologies | Extraction and value addition of Mahua seed  | 01 | 01 day | Off campus | 2nd week of july |  |  |  |  |  |  |  |  | 30 |
| Nursery management | Propagation of Bamboo through culm cutting  | 01 | 01 day | Off campus | 1st week of December |  |  |  |  |  |  |  |  | 30 |
| Production technologies | Kusumi lac cultivation in different host plant | 01 | 01 day | Off campus | 3rd week of Feb |  |  |  |  |  |  |  |  | 30 |
| Production technologies | Package & practices of Amla.  | 01 | 01 day | Off campus | 1st week of August |  |  |  |  |  |  |  |  | 30 |
| Production technologies | Fodder trees and grasses cultivation for improving livestock production | 01 | 01 day | Off campus | 2nd week of march |  |  |  |  |  |  |  |  | 30 |
| Integrated farming system | Cultivation of Vegetables as intercrop in acacia plantation  | 01 | 01 day | Off campus | 2nd week of June |  |  |  |  |  |  |  |  | 30 |
| Nursery management | Nursery for raising quality planting materials of forest sp.  | 01 | 01 | Off campus | February |  |  |  |  |  |  |  |  | 30 |
| Integrated farming system | Cultivation of fruit crop in tree alleys for additional income generation.  | 01 | 01 | Off campus | August |  |  |  |  |  |  |  |  | 30 |
| Production technologies | Cultivation of water chestnut for utilizing ditches water  | 01 | 01 | Off campus | January |  |  |  |  |  |  |  |  | 30 |
| Production technologies | Seasonal management of bee colony | 01 | 01 | On campus | December |  |  |  |  |  |  |  |  | 30 |
| **Seed Science** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Seed production | Seed production in Rice | 01 | 01 | Off | May |  |  |  |  |  |  |  |  | 30 |
| Seed production | Hybrid seed production in Rice | 01 | 01 | Off | June |  |  |  |  |  |  |  |  | 30 |
| Seed production | Seed production in Pulses  | 01 | 01 | Off | October |  |  |  |  |  |  |  |  | 30 |
| Seed production | Seed Production in Toria  | 01 | 01 | Off | September |  |  |  |  |  |  |  |  | 30 |
| Seed production | Integrated Nutrient Management in Oilseeds for improved seed yield  | 01 | 01 | Off | November  |  |  |  |  |  |  |  |  | 30 |
| Seed production  | Seed Production in Groundnut  | 01 | 01 | Off | December |  |  |  |  |  |  |  |  | 30 |
| **Home Science** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Income generation activities for empowerment of rural women | Humidity management for paddy straw mushroom production | 1 | 1day | off | June |  |  |  |  |  |  |  |  |  |
| Location specific drudgery reduction | Use of women friendly implements for drudgery reduction | 1 | 1day | off | may |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Designing and development of high nutrient efficient diet | Preparation of protein rich product (proteinmix and mixsev) | 1 | 1day | off | July |  |  |  |  |  |  |  |  |  |
|  | Pre-cooking methods for nutrient retention | 1 | 1day |  | August |  |  |  |  |  |  |  |  |  |
| Household food security through nutritional garden | Layout & planning of nutritional garden for nutritional security | 1 | 1day |  | October |  |  |  |  |  |  |  |  |  |
| Income generation activities for empowerment of rural women | Cultivation of paddy straw mushroom using scrambled paddy straw | 1 | 1day |  | August |  |  |  |  |  |  |  |  |  |
| Value addition | Preparation of value-added product of milk | 1 | 1day |  | September |  |  |  |  |  |  |  |  |  |
| Income generation activities for empowerment of rural women | Backyard rearing of poultry bird Kadaknath for income generation | 1 | 1day |  | October |  |  |  |  |  |  |  |  |  |
| Value addition | Preparation of value-added product from tomatoes | 1 | 1day |  | July |  |  |  |  |  |  |  |  |  |
| Income generation activities for empowerment of rural women | Cultivation of oyster mushroom | 1 | 1day |  | December |  |  |  |  |  |  |  |  |  |
| Women and child care | Nutritional care of school going children | 1 | 1day |  | May |  |  |  |  |  |  |  |  |  |
| Value addition | Preparation of value-added products from oyster mushroom  | 1 | 1day |  | June |  |  |  |  |  |  |  |  |  |

1. **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** |
| Integrated farming system | Integrated farming system | 1 | 3 days | On | September |  |  |  |  |  |  |  |  | 20 |
| Organic Farming | Organic Farming | 1 | 3 days | On | October |  |  |  |  |  |  |  |  | 20 |
| Organic input production | Techniques of vermiculture and vermicomposting | 1 | 3 days | On | June |  |  |  |  |  |  |  |  | 20 |
| Organic input production | Preparation of various organic sources of nutrients.  | 1 | 3 days | On | July |  |  |  |  |  |  |  |  | 20 |
| Production of organic inputs | Preparation of bio-pesticides from botanicals and organic matters | 01 | 03 days | On | November |  |  |  |  |  |  |  |  | 20 |
| Seed Production | Hybrid seed production in Rice  | 01 | 03 days | On | December |  |  |  |  |  |  |  |  | 20 |
| Production technologies | Nursery preparation and management of forest species  | 02 | 03 day | On campus | October |  |  |  |  |  |  |  |  | 20 |
| Mushroom cultivation  | Mushroom cultivation for income generation | 2 | 8days | on | July and December |  |  |  |  |  |  |  |  | 40 |

1. **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** |
| Crop intensification | Rice fallow: An option for increasing production and productivity of oilseeds and pulses | 1 | 2 days | On | September |  |  |  |  |  |  |  |  | 20 |
| Productivity enhancement in field crops | Resource conservation technologies | 1 | 2 days | On | October |  |  |  |  |  |  |  |  | 20 |
| INM | Recent advances in fertilizer management in field crops  | 01 | 02 | On | June |  |  |  |  |  |  |  |  | 20 |
| INM | Soil related constraints & their amelioration for sustainable crop production  | 01 | 02 | On | July |  |  |  |  |  |  |  |  | 20 |
| IPM | Recent advances in IPM for Paddy  | 01 | 02 days | On | September |  |  |  |  |  |  |  |  | 20 |
| IPM | New generation pesticides  | 01 | 02 days | On | November |  |  |  |  |  |  |  |  | 20 |
| Seed Production | Seed production in Pulses & Oilseeds | 01 | 02 | On | November |  |  |  |  |  |  |  |  | 20 |
| Nursery technologies | To develop knowledge and skill on basic nursery preparation and management in coastal and Reverine area. | 01 | 02 day | On campus | first week of January |  |  |  |  |  |  |  |  | 20 |
| Nutritional Security | Importance, planning and lay out of nutritional garden | 1 | 2days | On  | September  |  |  |  |  |  |  |  |  | 20 |
| Nutritional Security | Nutritional practices for good health | 1 | 2days | On | October |  |  |  |  |  |  |  |  | 20 |

**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 | 03 |  |  |  |  |  |  |  |  |  |  |  | 90 |
| Resource Conservation Technologies |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cropping Systems | 01 |  |  |  |  |  |  |  |  |  |  |  | 30 |
| Crop Diversification | 01 |  |  |  |  |  |  |  |  |  |  |  | 30 |
| Integrated Farming |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Water management  | 01 |  |  |  |  |  |  |  |  |  |  |  | 30 |
| Seed production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nursery management  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated Crop Management  | 04 |  |  |  |  |  |  |  |  |  |  |  | 120 |
| Fodder production  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production of organic inputs |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others, (cultivation of crops )  | 01 |  |  |  |  |  |  |  |  |  |  |  | 30 |
| TOTAL |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **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 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Exotic vegetables like Broccoli |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Export potential vegetables |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Grading and standardization  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Protective cultivation (Green Houses, Shade Net etc.) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others, if any (Cultivation of Vegetable) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **b) Fruits** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Training and Pruning |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Layout and Management of Orchards |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cultivation of Fruit |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Management of young plants/orchards |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Export potential fruits |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Micro irrigation systems of orchards |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Plant propagation techniques |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others, if any(INM) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **c) Ornamental Plants** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nursery Management |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Management of potted plants |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Export potential of ornamental 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 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **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 | 07 |  |  |  |  |  |  |  |  |  |  |  | 210 |
| Soil and Water Conservation  | 01 |  |  |  |  |  |  |  |  |  |  |  | 30 |
| Integrated Nutrient Management | 02 |  |  |  |  |  |  |  |  |  |  |  | 60 |
| Production and use of organic inputs | 01 |  |  |  |  |  |  |  |  |  |  |  | 30 |
| Management of Problematic soils |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Micro nutrient deficiency in crops | 01 |  |  |  |  |  |  |  |  |  |  |  | 30 |
| Nutrient Use Efficiency |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Soil and Water Testing | 12 |  |  |  |  |  |  |  |  |  |  |  | 360 |
| Others, if any |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **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 | 1 |  |  |  |  |  |  |  |  |  |  |  | 30 |
| Design and development of low/minimum cost diet |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Designing and development for high nutrient efficiency diet | 1 |  |  |  |  |  |  |  |  |  |  |  | 30 |
| Minimization of nutrient loss in processing  | 1 |  |  |  |  |  |  |  |  |  |  |  | 30 |
| Gender mainstreaming through SHGs |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Storage loss minimization techniques |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Enterprise development |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Value addition | 3 |  |  |  |  |  |  |  |  |  |  |  | 90 |
| Income generation activities for empowerment of rural Women  | 4 |  |  |  |  |  |  |  |  |  |  |  | 120 |
| Location specific drudgery reduction technologies  | 1 |  |  |  |  |  |  |  |  |  |  |  | 30 |
| Rural Crafts  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Capacity building  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Women and child care  | 1 |  |  |  |  |  |  |  |  |  |  |  | 30 |
| 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  | 06 |  |  |  |  |  |  |  |  |  |  |  | 180 |
| Integrated Disease Management  | 02 |  |  |  |  |  |  |  |  |  |  |  | 60 |
| Bio-control of pests and diseases  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **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 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 06 |  |  |  |  |  |  |  |  |  |  |  | 180 |
| 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 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **XI Agro-forestry** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production technologies  | 07 |  |  |  |  |  |  |  |  |  |  |  |  |
| Nursery management | 02 |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming Systems  | 03 |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL | 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| **XII. Others (Pl. Specify)** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **TOTAL** |  |  |  |  |  |  |  |  |  |  |  |  |  |

**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 | 2 |  |  |  |  |  |  |  |  |  |  |  | 40 |
| Bee-keeping |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated farming | 01 |  |  |  |  |  |  |  |  |  |  |  | 20 |
| Seed production | 01 |  |  |  |  |  |  |  |  |  |  |  | 20 |
| Production of organic inputs | 03 |  |  |  |  |  |  |  |  |  |  |  | 60 |
| Planting material production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vermi-culture | 01 |  |  |  |  |  |  |  |  |  |  |  | 20 |
| 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 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production of quality animal products |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dairying |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sheep and goat rearing |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Quail farming |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |  |  |  |  |  |  |  |  |  |  |  |  |  |

**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 | 01 |  |  |  |  |  |  |  |  |  |  |  | 20 |
| Integrated Pest Management | 02 |  |  |  |  |  |  |  |  |  |  |  | 40 |
| Integrated Nutrient management |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rejuvenation of old orchards  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Value addition |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Protected cultivation technology |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Group Dynamics and farmers organization |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Information networking among farmers |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Capacity building for ICT application |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Care and maintenance of farm machinery and implements |  |  |  |  |  |  |  |  |  |  |  |  |  |
| WTO and IPR issues  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Management in farm animals |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Livestock feed and fodder production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Household food security | 1 |  |  |  |  |  |  |  |  |  |  |  | 20 |
| Women and Child care | 1 |  |  |  |  |  |  |  |  |  |  |  | 20 |
| Low cost and nutrient efficient diet designing  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production and use of organic inputs |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Crop intensification | 01 |  |  |  |  |  |  |  |  |  |  |  | 20 |
| Others (Seed Production) | 01 |  |  |  |  |  |  |  |  |  |  |  | 20 |
| Others (Agro-forestry) | 02 |  |  |  |  |  |  |  |  |  |  |  | 40 |
| TOTAL |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. **Frontline demonstration to be conducted\***

**FLD-01(Agronomy)**

**Frontline demonstration to be conducted\*:** Demonstration of herbicide penoxsulam in transplanted rice

**Crop**: Rice

**Thrust Area**: Production enhancement

**Thematic Area**: Integrated weed management

**Season**: Kharif, 2021

**Farming Situation**: Irrigated medium land

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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** |
| 01 | Rice | 2 ha | Post emergence application of penoxsulam 24 SC @ 25g ai/ha at 12 DAT followed by hand weeding at 30 DAS | No. of effective tillers/hill, No. of spikelet per panicle, test weight, Weed control efficiency, weed index, yield and B:C ratio | penoxsulam herbicide | 44000 | 47000 |  |  |  |  |  |  |  |  | 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** |
| Field day | Field day on demonstration of integrated weed management in transplanted rice | 01 | Farmers and farm women | 1 day | Off |  |  |  |  |  |  |  |  | 50 |
| Training | Integrated weed management in transplanted rice | 01 | Farmers and farm women | 1 day | Off |  |  |  |  |  |  |  |  | 30 |

**FLD-02(Agronomy)**

**Frontline demonstration to be conducted\*:** Demonstration of BPH tolerant rice cultivar ‘Hasanta’

**Crop**: Rice

**Thrust Area**: Production enhancement

**Thematic Area**: Varietal evaluation

**Season**: Kharif, 2021

**Farming Situation**: Irrigated medium land

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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** |
| 01 | Rice | 02 ha | Cultivation of BPH tolerant rice cultivar with good yield potential of 5.2 to 5.5 t/ha having maturity duration of 145 days | No. of effective tillers/hill, No. of BPHhill, No. of spikelet per panicle, test weight, Yield (q/ha), B.C. ratio | Hasanta cultivar | 45000 | 46000 |  |  |  |  |  |  |  |  | 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** |
| Field day | Field day on Demonstration of BPH tolerant rice cultivar ‘Hasanta’ | 01 | Farmers and farm women | 1 day | Off |  |  |  |  |  |  |  |  | 50 |

**FLD-03(Agronomy)**

**Frontline demonstration to be conducted\*:** Demonstration of weed management in Rice-Groundnut cropping system

**Crop**: Rice, Groundnut

**Thrust Area**: Production enhancement

**Thematic Area**: Integrated weed management

**Season**: Kharif, 2021, Rabi, 2021-22

**Farming Situation**: Irrigated medium land

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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** |
| 01 | Rice, Groundnut | 02 ha | Application of Butachlor + 2,4-DEE rotated with Pretilachlor without OM in rice along with application of Alachlor in groundnut | Weed index, Weed control efficiency, Yield (q/ha), B.C. ratio | Butachlor + 2,4-DEE , Alachlor | 52000 | 58000 |  |  |  |  |  |  |  |  | 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** |
| Field day | Field day on demonstration f weed management in Rice-Groundnut cropping system | 01 | Farmers and farm women | 1 day | Off |  |  |  |  |  |  |  |  | 50 |
| Training | Integrated weed management in Groundnut | 01 | Farmers and farm women | 1 day | Off |  |  |  |  |  |  |  |  | 30 |

**FLD-04(Agronomy)**

**Frontline demonstration to be conducted\*:** Demonstration of crop diversification in Rice-Rice cropping system

**Crop**: Rice, Maize, Cowpea

**Thrust Area**: Production enhancement

**Thematic Area**: Cropping system

**Season**: Rabi, 2021-22

**Farming Situation**: Irrigated medium land

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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** |
| 01 | Rice, Maize, Cowpea | 01 ha | Cultivation of maize intercropping with cowpea (2:2) in rabi season after Kharif rice | Rice equivalent yield, system profitability, Yield (q/ha), B.C. ratio | Seeds of maize and cowpea | 46000 | 47000 |  |  |  |  |  |  |  |  | 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** |
| Field day | Field day on Demonstration of crop diversification in Rice-Rice cropping system | 01 | Farmers and farm women | 1 day | Off |  |  |  |  |  |  |  |  | 50 |
| Training | Crop diversification in rice-rice cropping system | 01 | Farmers and farm women | 1 day | Off |  |  |  |  |  |  |  |  | 30 |
| Training | Crop management practices under intercropping  | 01 | Farmers and farm women | 1 day | Off |  |  |  |  |  |  |  |  | 30 |

**FLD-05(Soil Sc.)**

**Frontline demonstration to be conducted- Demonstration of PSB & VAM in Groundnut**

**Crop**: Groundnut

**Thrust Area**: Yield Improvement

**Thematic Area**: INM

**Season**: Rabi, 2021-22

**Farming Situation**: Rain-fed medium land

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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./ha)** | **No. of farmers / demonstration** |
| **Name of Inputs** | **Demo** | **Local** | **SC** | **ST** | **Other** | **Total** |
| **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **T** |
| 01 | Groundnut & Dharani | 01 | STBFR + 0.2LR Lime + Rhizobium@ 50g/kg of seed + PSB@ 5kg/ha + VAM@ 10kg/ha  | No. of nodules/plant, No. of pods/plant  | Lime, Rhizobium, PSB, VAM | - | - |  |  |  |  |  |  |  |  | 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** |
| Field Day | Field Day on Demonstration of PSB & VAM in Groundnut | 01 | Farmers, Extension officials | 01day | Off |  |  |  |  |  |  |  |  | 50 |

**FLD-06(Soil Sc.)**

**Frontline demonstration to be conducted-** Demonstration of Bunch feeding in banana for yield enhancement

**Crop**: Banana

**Thrust Area**: Yield Improvement

**Thematic Area**: INM

**Season**: Rabi, 2021-22

**Farming Situation**: Irrigated medium land

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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./ha)** | **No. of farmers / demonstration** |
| **Name of Inputs** | **Demo** | **Local** | **SC** | **ST** | **Other** | **Total** |
| **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **T** |
| 01 | BananaG-9 | 01 | STBFR + Blending 15g (7.5g Urea & 7.5g of sulphate of potash) dissolved in 100ml water in 500g of fresh cow dung & applying the slurry to the de-navelled stalk end soon after fruit set  | Bunch weight, Finger size(wt), Pulp: Peel ratio, days to maturity Yield (q/ha), B.C. Ratio | Urea & sulphate of potash | - | - |  |  |  |  |  |  |  |  | 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** |
| Field Day | Field Day on Demonstration of Bunch feeding in banana for yield enhancement | 01 | Farmers, Extension officials | 01day | Off |  |  |  |  |  |  |  |  | 50 |
| Training | INM in Banana | 01 | Farmers | 01day | Off |  |  |  |  |  |  |  |  | 30 |

**FLD-07(Soil Sc.)**

**Frontline demonstration to be conducted-** Demonstration of INM in pointed gourd

**Crop**: Pointed Gourd

**Thrust Area**: Yield Improvement

**Thematic Area**: INM

**Season**: Rabi, 2021-22

**Farming Situation**: Irrigated medium land

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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./ha)** | **No. of farmers / demonstration** |
| **Name of Inputs** | **Demo** | **Local** | **SC** | **ST** | **Other** | **Total** |
| **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **T** |
| 01 | Pointed Gourd & Swarna Alaukik | 01 | STBFR + Consortia of Azotobacter, Azospirilum and PSM each @ 4.0 kg/ha inoculated to 300 kg of FYM, mixed with 15 kg of lime, incubated at 30% moisture for a week & applied in rhizosphere at the time of planting root suckers | Fruit Wt. (g), Fruits/plant (no.) Yield (q/ha), B.C. Ratio  | Azotobacter, Azospirilum and PSM | - | - |  |  |  |  |  |  |  |  | 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** |
| Field Day | Field Day on Demonstration of INM in pointed gourd | 01 | Farmers, Extension officials | 01day | Off |  |  |  |  |  |  |  |  | 50 |
| Training | INM in pointed Gourd | 01 | Farmers | 01day | Off |  |  |  |  |  |  |  |  | 30 |

**FLD-08(Soil Sc.)**

**Frontline demonstration to be conducted-** Demonstration of INM in Brinjal

**Crop**: Brinjal

**Thrust Area**: Yield Improvement

**Thematic Area**: INM

**Season**: Rabi, 2021-22

**Farming Situation**: Irrigated medium land

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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./ha)** | **No. of farmers / demonstration** |
| **Name of Inputs** | **Demo** | **Local** | **SC** | **ST** | **Other** | **Total** |
| **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **T** |
| 01 | Brinjal & Tarini  | 01 | Appl i c a t i on of 75% of STBFR Fe r t i l i ze r N + 100% fertilizer P & K + FYM @ 2t/ha + Bio-inoculation of Azotobacter 4kg/ ha + Azospirilum 4 kg/ ha with 200kg prelimed FYM (Lime 10kg) incubated for 7 days at 30% moisture & applied in rhizosphere at the time of planting  | Fruit Wt. (g), Fruits/plant (no.) Yield (q/ha), B.C. Ratio  | Azotobacter Azospirilum | - | - |  |  |  |  |  |  |  |  | 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** |
| Field Day | Field Day on Demonstration of INM in Brinjal | 01 | Farmers, Extension officials | 01day | Off |  |  |  |  |  |  |  |  | 50 |
| Training | INM in Brinjal | 01 | Farmers | 01day | Off |  |  |  |  |  |  |  |  | 30 |

**FLD-09(Plant Protection)**

**Crop**: Onion

**Thrust Area**: Plant Protection (Integrated disease management)

**Thematic Area**: IDM

**Season**: Rabi 2021-22

**Farming Situation**: Irrigated medium land

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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** |
| 01 | Onion | 01 ha | Seed treatment with Carboxin 37.5% + Thiram 37.5% (0.2%) + three foliar spraying with Tebuconazole 25 EC (0.1%) at 15 days interval starting from initiation of the infection  | PDI, Cost of operation (Rs/ha)  | Carboxin 37.5% + Thiram 37.5% (0.2%)Tebuconazole 25 EC | 232140 | 220780 |  |  |  |  |  |  |  |  | 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** |
| F/W Training | IDM in Onion  | 30 | Farmers and farm women | 01 day | Off  |  |  |  |  |  |  |  |  | 30 |
| Field day | Management of purple blotch disease in onion | 30 | Farmers  | 01 day | Off |  |  |  |  |  |  |  |  | 30 |

**FLD-10(Plant Protection)**

**Crop**: Chilli

**Thrust Area**: Plant Protection (Integrated pest management)

**Thematic Area**: IPM

**Season**: Rabi 2021-22

**Farming Situation**: Irrigated medium land

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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** |
| 01 | Chilli  | 01 ha | Soil application of neem cake @2.5 qt/ha,Installation of Blue sticky traps @50nos/ha, & need based application of Difenthiuron @1gm/lt & Spiromesifen 240 SC @ 0.6ml/ lit alternately at 10 days interval  | No of sucking pests in three leaves,  | neem cakeBlue sticky trapsDifenthiuronSpiromesifen |  |  |  |  |  |  |  |  |  |  | 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** |
| F/W Training | IPM in Chilli | 30 | Farmers and farm women | 01 day | Off  |  |  |  |  |  |  |  |  | 30 |
| Field day | Management of sucking pest complex in chilli | 30 | Farmers  | 01 day | Off |  |  |  |  |  |  |  |  | 30 |

**FLD-11(Plant Protection)**

**Crop**: Brinjal

**Thrust Area**: Plant Protection (Integrated pest management)

**Thematic Area**: IPM

**Season**: Kharif 2021

**Farming Situation**: Rainfed medium land,

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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** |
| 01 | Brinjal | 01 | Neem Cake 2.5Q per Ha + Pheromone Trap @5 nos. per Ha + clipping of twigs + Flubendiamide 48 SC @ 200ml/ha( at 40 DAP) followed by cartap hydrochloride 50% SP @ 500 gm/ha(Alternate spray at 15 days interval) | No of damaged fruits per plant  | Neem CakePheromone TrapFlubendiamide 48 SCcartap hydrochloride 50% SP |  |  |  |  |  |  |  |  |  |  | 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** |
| F/W Training | IPM in Brinjal  | 30 | Farmers and farm women | 01 day | Off  |  |  |  |  |  |  |  |  | 30 |
| Field day | Management of fruit and shoot borer in brinjal | 30 | Farmers  | 01 day | Off |  |  |  |  |  |  |  |  | 30 |

**FLD-12(Plant Protection)**

**Crop**: Mustard

**Thrust Area**: Plant Protection (Integrated pest management)

**Thematic Area**: IPM

**Season**: Rabi, 2021-22

**Farming Situation**: Rainfed medium land

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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** |
| 01 | Mustard | 01 | Installation of pheromone trap for monitoring @ 5/ ha + Fixation of bird perches for avian predation + Sunflower as barrier trap crop + Placement of Poison baits (10 Kg Rice bran + 1 Kg Jaggery+ 250 ml Lambada Cyhalothrin) + Need based Foliar application of Indoxacarb + Novaluron @ 625 ml/ ha in the evening hours | Pod damage % | pheromone trapPoison baits (10 Kg Rice bran + 1 Kg Jaggery+ 250 ml Lambada Cyhalothrin)Indoxacarb + Novaluron |  |  |  |  |  |  |  |  |  |  | 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** |
| F/W Training | IDM in Onion  | 01 | Farmers and farm women | 01 day | Off  |  |  |  |  |  |  |  |  | 30 |
| Field day | IPM strategies against *Spodoptera litura* in mustard (Toria)  | 01 | Farmers  | 01 day | Off |  |  |  |  |  |  |  |  | 30 |

**FLD-13(Forestry)**

**Crop**: Acacia with Pineapple

 **Thrust Area**: Inter space are remaining vacated

**Thematic Area**: **Agro forestry**

**Season**: Kharif

**Farming Situation**: Acacia plantation

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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 | Acacia/ Pine apple | 10 | Inter copping of pine apple at a spacing 70cm x50cm in existing Acacia plantation | Height, canopy growth, yield/ha  | Pine apple sucker |  |  |  |  |  |  |  |  |  |  |  |

**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 | Cultivation of fruit crop in acacia plantation | 1 | F/FW | 1 | Off |  |  |  |  |  |  |  |  |  |
| Field Day |  | 1 | F/FW, line dept. | 1 | off |  |  |  |  |  |  |  |  |  |

**FLD-14(Forestry)**

**Crop**: Aonla

**Thrust Area**: Un-utilization/ less utilization of waste land

**Thematic Area**: **Production Technology**

**Season**: Kharif

**Farming Situation**: Rainfed upland/ waste land

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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 | Aonla | 10, .4ha | Planting of aonla plants in the waste land in the spacing of 2mt x 2mt | Yield, B:C ratio | Amla seedling |  |  |  |  |  |  |  |  |  |  |  |

**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 | Package and practices of amla | 1 | F/FW | 1 | Off |  |  |  |  |  |  |  |  |  |

**FLD-15(Forestry)**

**Crop**: *Eucalyptus hybrid*

**Thrust Area**: **People in rural area get miscellaneous wood species in less quantity for their fire wood and small wood need**

**Thematic Area**: **Agro forestry**

**Season**: Kharif

**Farming Situation**: Rain fed upland/ waste land

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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 | *Eucalyptus hybrid* | 110 | Elite seedlings of eucalyptus will be planted at 2mx2m in upland followed by recommended cultural practices | **Plant ht (cm), collar dia (cm), DBH (cm)** | *Eucalyptus hybrid*sedling |  |  |  |  |  |  |  |  |  |  |  |

**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 | Package and practices of Eucalyputas cultivation | 1 | F/FW | 1 | Off |  |  |  |  |  |  |  |  |  |
| Field Day |  | 1 | F/FW, line department | 1 | off |  |  |  |  |  |  |  |  |  |

**FLD-16(Forestry)**

**Crop**: *Acacia and amaranthus*

**Thrust Area**: Interspaces are remain vacated

**Thematic Area**: **Agro forestry**

**Season**: Kharif

**Farming Situation**: Rain fed upland/ waste land

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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 | Acacia and Amaranthus | 0.410 | Inter cropping of Amaranthus in a spacing of 30cm x 50cm in 0-3 old Acacia plantation | **Plant ht (cm), collar dia (cm), DBH (cm), Yield/ha** | Acacia seedling and amaranthus seed |  |  |  |  |  |  |  |  |  |  |  |

**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 | Cultivation of vegetables as intercrop in acacia plantation | 1 | F/FW | 1 | Off |  |  |  |  |  |  |  |  |  |
| Field Day | 1 | 1 | F/FW, line department | 1 | off |  |  |  |  |  |  |  |  |  |

 **FLD-17 (Home Sc.)**

**Crop**: paddy straw mushroom

**Thrust Area**: mushroom cultivation

**Thematic Area**: women empowerment through income generation

**Season**: Kharif, 2021

**Farming Situation**: homestead

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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** |
|  | mushroom | 100beds | Production of paddy straw mushroom with use of scrambled straw | Yield per bedNet profit per bed | StrawScrambled straw | 2/- to5/- per bed | 20/-to 25/-per bed |  |  |  |  |  |  |  |  | 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 | Production of paddy straw mushroom with use of scrambled straw | 1 | Farm women | 1 day | off |  |  |  |  |  |  |  | 30 | 30 |

**FLD-18 (Home Sc.)**

 **Frontline demonstration to be conducted\*-Demonstration on Paneer pressing machine for higher income**

**Crop/Commodity:** Milk

**Thrust Area**: Income generation

**Thematic Area**: value addition

**Season**: Throughout the year

**Farming Situation**: Homestead

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Crop & variety / Enterprise** | **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** |
| 01 | Milk | 10 | Use of paneer pressing machine | Yield per 1lit milk | Paneer pressing machine | 5000/- |  |  |  |  |  |  |  |  |  | 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 | Preparation of value-added product of milk | 1 | farmwomen | 1 day | off |  |  |  |  |  |  |  |  | 30 |

 **FLD-19 (Home Sc.)**

 **Frontline demonstration to be conducted\*- Demonstration on Nutritional garden for nutritional security of farm family**

**Crop/commodity-Nutritional garden**

**Thrust Area**: Food security

**Thematic Area**: house hold food security through nutritional gardening

**Season**: Throughout the year

**Farming Situation**: Irrigated

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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** |
| 01 | **Nutritional garden** | 10 | Nutritional Gardening in proper lay out (area 20mx10m) for 4-6 family members. Growing all types of vegetables such as GLV, roots and tubers, yellow vegetables and other vegetables along with planting of drumstick, lime and fruit plants like Papaya and Banana for getting available vitamin and mineral rich nutrients round the year | Consumption of vegetables per day per family member | Seedlings and seeds of different vegetables which are rich in various nutrients | 4800/- |  |  |  |  |  |  |  |  |  | 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  | Lay out of nutritional garden for nutritional security | 1 | farmwomen | 1 day | off |  |  |  |  |  |  |  |  | 30 |

 **FLD-20 (Home Sc.)**

**Frontline demonstration to be conducted\*- Demonstration on ground nut stripper**

**Crop/commodity: Ground nut**

**Thrust Area**: Drudgery

**Thematic Area**: Drudgery reduction

**Season**: Rabi- 2020-21

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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** |
| 01 | **Groundnut stripper** | 10 | Plucking of groundnut pods by use of groundnut striper | Efficiency per hour/ person | Groundnut striper | 5000/- | - |  |  |  |  |  |  |  |  | 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  | Use of women friendly implements for drudgery reduction | 1 | Farm women | 1 day | Off  |  |  |  |  |  |  |  |  | 30 |

**FLD- 21(Seed Sc.)**

**Frontline demonstration to be conducted\*- Demonstration of Plant growth regulator paclobutrazol in Groundnut**

**Crop**: Groundnut

**Thrust Area**: INM

**Thematic Area**: INM

**Season**: Rabi, 2021-22

**Farming Situation**: Rainfed- land

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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** |
| 01 | Groundnut & Dharani | 02 | Application of Plant growth regulator Paclobutrazol 23%SC@ 3ml/15ltr water at 30DAS  | Pods/Plant (no.)Branches/plant (no.)  | Paclobutrazol  | 40800 | 40000 |  | - | - | - | 10 | - | 10 | - | 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** |
| Field Day | Field Day on Demonstration of Plant growth regulator paclobutrazol in Groundnut  | 01 | Farmers, Extension officials | 01day | Off | - | - | - | - | 40 | 10 | 40 | 10 | 50 |
| Training | Seed Production in Oilseed | 01 | Farmers | 01day | Off | 10 | 2 | 2 | 1 | 10 | 5 | 24 | 6 | 30 |

**FLD-22 (Seed Sc.)**

**Frontline demonstration to be conducted\*- Demonstration of water soluble fertilizer in black gram for higher seed yield**

**Crop**: Black Gram

**Thrust Area**: Integrated Crop Management

**Thematic Area**: Integrated Nutrient Management

**Season**: Rabi, 2021-22

**Farming Situation**: Irrigated medium land

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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** |
| 01 | Black Gram PU-31 | 02 | Basal application of 75%STBFR + Foliar application of Water Soluble Fertilizer (18:18:18) @ 2% at 25 and 40 DAS  | Pods/plant (no.) 1000 seed wt(g)  | NPK (18:18:18) | 17000 | 15000 | - | - | - | - | 10 | - | 10 | - | 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** |
| Field Day | Field Day on Demonstration of water soluble fertilizer in black gram for higher seed yield | 01 | Farmers, Extension officials | 01day | Off | - | - | - | - | 35 | 15 | 35 | 15 | 50 |
| Training | Seed Production in Pulses | 01 | Farmers | 01day | Off | - | - | - | - | 23 | 7 | 23 | 7 | 30 |

1. **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.)/****No.** | **Details of Production** |
| **Type of Produce** | **Expected Production (quintals)** | **Cost of inputs (Rs.)** | **Expected Gross income (Rs.)** | **Expected Net Income (Rs.)** |
| Brinjal | Swarna Shyamali, Blue star | **Kharif** | 5000 nos. | Seedlings | - | - | - | - |
| Tomato | ArkaRakshak, Arka Samrat | **Kharif** | 3000 nos. | Seedlings | **-** | **-** | **-** | **-** |
| Papaya | Honey dew, Vinayak | **Kharif** | 1000 nos. | Seedlings | **-** | **-** | **-** | **-** |
| Drumsticks | PKM - 1 | **Kharif** | 500 nos. | Seedlings | **-** | **-** | **-** | **-** |
| Acacia | - | **Kharif** | 5000 nos. | Sapling | **-** | **-** | **-** | **-** |
| Teak | - | **Kharif** | 1000 nos. | Sapling | **-** | **-** | **-** | **-** |
| Hybrid Napier | CO - 4 | **Kharif** | 10000 nos. | Slip | **-** | **-** | **-** | **-** |
| Other Forest Saplings | - | **Kharif** | 1000 nos. | Sapling | **-** | **-** | **-** | **-** |
| Arecanut | Mohit Nagar | **Kharif** | 1000 nos. | Sapling | **-** | **-** | **-** | **-** |
| Medicinal Plant | Stevia,cinnamon,citronella,brahmi | **Kharif** | 200 nos. | Sapling | **-** | **-** | **-** | **-** |
| Brinjal | Arka Anand, Utkal Keshari | **Rabi** | 10000 nos. | Seedling | **-** | **-** | **-** | **-** |
| Tomato | ArkaRakshak | **Rabi** | 7500 nos | Seedling | **-** | **-** | **-** | **-** |
| Chilli | ArkaHarita, Daiya | **Rabi** | 2000 nos | Seedling | **-** | **-** | **-** | **-** |
| Capsicum | Arka Mohini, California Wonder | **Rabi** | 1500 nos | Seedling | **-** | **-** | **-** | **-** |
| Cauliflower | ArkaVimal, Deepa, Megha | **Rabi** | 5000 nos | Seedling | **-** | **-** | **-** | **-** |
| Cabbage | Pusa Drumhead, Rare Ball | **Rabi** | 5000 nos | Seedling | **-** | **-** | **-** | **-** |
| Onion | Agrifound light red | **Rabi** | 45000 nos | Seedling | **-** | **-** | **-** | **-** |
| Marigold | Pusabasanti, PusaNarangi, Ceracol | **Rabi** | 3000 nos | Seedling | **-** | **-** | **-** | **-** |
| Tuberose | Prajwal | **Rabi** | 5000 nos | Bulb | **-** | **-** | **-** | **-** |
| Papaya | Vinayak & Honey dew | **Rabi** | 500 nos | Seedling | **-** | **-** | **-** | **-** |
| Elephant foot yam | Gajendra | **Kharif** | 1q | Tuber | **-** | **-** | **-** | **-** |
| Yam | Odisha Elite | **Kharif** | 0.5q | Tuber | **-** | **-** | **-** | **-** |

**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.)** |
| Finger Millet | Arjuna | Kharif, 2021 | 0.4ha | - | 2.0` | - | - | - | - |

1. **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** |
|  | Field Day | 23 |  |  |  |  |  |  |  |  |  |  |
|  | Kisan Mela | 00 |  |  |  |  |  |  |  |  |  |  |
|  | Kisan Ghosthi | 00 |  |  |  |  |  |  |  |  |  |  |
|  | Exhibition | 02 |  |  |  |  |  |  |  |  |  |  |
|  | Film Show | 25 |  |  |  |  |  |  |  |  |  |  |
|  | Method Demonstrations | 25 |  |  |  |  |  |  |  |  |  |  |
|  | Farmers Seminar | 01 |  |  |  |  |  |  |  |  |  |  |
|  | Workshop | 01 |  |  |  |  |  |  |  |  |  |  |
|  | Group meetings | 15 |  |  |  |  |  |  |  |  |  |  |
|  | Lectures delivered as resource persons | 50 |  |  |  |  |  |  |  |  |  |  |
|  | Advisory Services (KMA) | 50 |  |  |  |  |  |  |  |  |  |  |
|  | Scientific visit to farmers field | 200 |  |  |  |  |  |  |  |  |  |  |
|  | Farmers visit to KVK | 1200 |  |  |  |  |  |  |  |  |  |  |
|  | Diagnostic visits | 50 |  |  |  |  |  |  |  |  |  |  |
|  | Exposure visits | 05 |  |  |  |  |  |  |  |  |  |  |
|  | Ex-trainees Sammelan | 02 |  |  |  |  |  |  |  |  |  |  |
|  | Soil health Camp | 02 |  |  |  |  |  |  |  |  |  |  |
|  | Animal Health Camp | 05 |  |  |  |  |  |  |  |  |  |  |
|  | Agri mobile clinic | 08 |  |  |  |  |  |  |  |  |  |  |
|  | Soil test campaigns | 05 |  |  |  |  |  |  |  |  |  |  |
|  | Farm Science Club Conveners meet | 01 |  |  |  |  |  |  |  |  |  |  |
|  | Self Help Group Conveners meetings | 04 |  |  |  |  |  |  |  |  |  |  |
|  | Mahila Mandals Conveners meetings | 01 |  |  |  |  |  |  |  |  |  |  |
|  | Celebration of important days ( ) | 07 |  |  |  |  |  |  |  |  |  |  |
|  | Swachhta Hi Sewa | 20 |  |  |  |  |  |  |  |  |  |  |
|  | Mahila Kisan Diwas | 01 |  |  |  |  |  |  |  |  |  |  |
|  | Any Other (Specify) |  |  |  |  |  |  |  |  |  |  |  |
|  | Total |  |  |  |  |  |  |  |  |  |  |  |

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

|  |  |  |
| --- | --- | --- |
| **Opening balance of 2019-2020 (As on 01.04.2020)** | **Amount proposed to be invested during 2021**  | **Expected Return** |
| 2,93,646 | 2,00,000 | 3,00,000 |

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

|  |  |  |
| --- | --- | --- |
| **Project** | **Source** | **Amount to be received (Rs. in lakh)** |
| ASCI | ICAR-ATARI, Kolkata | 3.60 |
| ATMA residential Training | ATMA, Balasore | 1.00 |

**9.**

**OFT 1 (Agronomy)**

**On-farm trials to be conducted\*:** Assessment of climate smart varieties of rice

1. **Season: Kharif**
2. **Title of the OFT:**Assessment of climate smart varieties of rice
3. **Thematic Area:**Varietal evaluation
4. **Problem diagnosed:**Yield loss due to both submergence and drought prevailing during the same cropping season
5. **Production system:**Irrigated medium land
6. **Micro farming system:**Rice-Green gram
7. **Technology for Testing:**Climate smart varieties of rice for enhancement of production
8. **Existing Practice:** Cultivation of Swarna
9. **Objective(s):**To increase the productivity under adverse climatic situation
10. **Treatments:**

Farmers Practice (FP): Cultivation of Swarna

Technology option-I (TO-I): Cultivation of CR DHAN 801

Technology option-II (TO-II): Cultivation of CR DHAN 802

1. **Critical Inputs:**Seeds of CR DHAN 801 and CR DHAN 80**2**
2. **Unit Size:**1 ha
3. **No of Replications:** 07
4. **Unit Cost:** 1230
5. **Total Cost:** 8610
6. **Monitoring Indicator:**No. of effective tillers/hill, No. of spikelet per panicle, test weight, days of submergence, yield (q/ha) and B:C ratio
7. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** ICAR-NRRI, 2019

**OFT 2(Agronomy)**

**On-farm trials to be conducted\*:** Assessment of protein rich rice varieties

1. **Season:** Kharif, 2021
2. **Title of the OFT:**Assessment of protein rich rice varieties
3. **Thematic Area:**Varietal evaluation
4. **Problem diagnosed:**Nutritionally insecure due to much dependent on rice and Unavailability of protein rich variety
5. **Production system:**Irrigated medium land
6. **Micro farming system:**Rice-Green gram/Black gram
7. **Technology for Testing:**Protein rich rice cultivar
8. **Existing Practice:**Cultivation of MTU 1010
9. **Objective(s):**To improve the nutritional value comparison with the farmers cultivated cultivar
10. **Treatments:**
	* 1. Farmers Practice (FP): Cultivation of MTU 1010
		2. Technology option-I (TO-I): Cultivation of CR Dhan 310
		3. Technology option-II (TO-II): Cultivation of CR Dhan 311
		4. Technology option-III (TO-III): Cultivation of CR Dhan 315
11. **Critical Inputs:**Seeds of CR Dhan 310, CR Dhan 311, CR Dhan 315,
12. **Unit Size:**1 ha
13. **No of Replications:**05
14. **Unit Cost:** 1500
15. **Total Cost:** 7500
16. **Monitoring Indicator:**No. of effective tillers/hill, No. of spikelet per panicle, test weight, protein content, yiled (q/ha), B:C ratio
17. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** Research bulletin(15), Annual report, 2018

**OFT-3 (Soil Science)**

1. **Season:** Kharif, 2021
2. **Title of the OFT: Assessment of nano-nitrogen in transplanted rice**
3. **Thematic Area:** INM
4. **Problem diagnosed:** Low efficiency of applied nitrogen (Urea) to soil
5. **Important Cause:** Poor nitrogen management
6. **Production system:** Rice based production system
7. **Micro farming system:** Rice- Vegetable
8. **Technology for Testing:** Assessment of nano-Nitrogen
9. **Existing Practice:** Application of N-P2O5-K2O @ 80:40:40kg/ha
10. **Hypothesis:** Nano fertilizers cause an increase in the use efficiency of plant nutrients , reduce soil toxicity, minimize adverse effects of excessive chemical fertilizer use better utilization by plants, produces higher grain yield of paddy & environment friendly
11. **Objective(s):** To increase efficiency of applied nitrogen for higher yield
12. **Treatments:**
13. Farmers Practice (FP): Application of N-P2O5-K2O @ 80:40:40kg/ha

 Technology option-I (TO-I): Spraying of nano-N (40000ppm)@ 1250ml/ha at tillering & PI Stage + No Soil application of N+100% P2O5 & K2O (STD)

 Technology option-II (TO-II): Spraying of nano-N (40000ppm)@ 1250ml/ha at tillering & PI Stage + Soil application of 50%N (STD) through urea +100% P2O5 & K2O (STD)

1. **Critical Inputs:** Nano Nitrogen
2. **No of Replications:** 07
3. **Unit Cost:** Rs 500/-
4. **Total Cost:**  Rs 3500/-
5. **Monitoring Indicator:** No. of EBT/hill, Panicle length, no. of grains/panicle, Grain yield (q/ha), B:C Ratio
6. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** AINP on soil biodiversity and bio-fertilizers, OUAT, 2010

**OFT-4** (**Soil science)**

1. **Season:** Rabi, 2021-22
2. **Title of the OFT: Assessment of Integrated nutrient Management in Betel vine**
3. **Thematic Area:** INM
4. **Problem diagnosed:** Low leaf yield & quality
5. **Important Cause:**  Poor nutrient management
6. **Production system:** Betel vine round the year
7. **Micro farming system:** Betel vine
8. **Technology for Testing:** Assessment of biofertilizer& vermicompost
9. **Existing Practice:** Application of N-P2O5-K2O(350-375-120) + Poultry manure (37.5t/ha) + Mustard oil cake (1.5t/ha)
10. **Hypothesis:** VC is an excellent nutrient rich organic manure helps in balanced fertilization of Betel vine, Bio-fertilizers supplement chemical fertilizers for meeting the integrated nutrient demand of betel vine. They result in increased mineral & water uptake, root development, vegetative growth & nitrogen fixation
11. **Objective(s):** To increase the leaf yield through INM
12. **Treatments:**

Farmers Practice (FP): Application of N-P2O5-K2O(350-375-120) + Poultry manure (37.5t/ha) + Mustard oil cake (1.5t/ha)

Technology option-I (TO-I): STBR + Mustard oil cake@1.5t/ha+Vermicompost@10t/ha

Technology option-II (TO-II): STBFR (50%) + Mustard oil cake @ 1.5t/ha + Vermicompost @10t/ha + consortia of Azotobacter, Azospirillum & PSM each @ 4kg/ha inoculated to 300kg VC, Mixed with 15kg Lime, incubated at 30% moisture for a week & applied in rhizosphere

1. **Critical Inputs:** Azotobacter, Azospirillum & PSM
2. **Unit Size:** 0.2ha
3. **No of Replications:** 07
4. **Unit Cost:** Rs **600/-**
5. **Total Cost:** Rs 4200/-
6. **Monitoring Indicator:** Vine length, No. of leaves/vine, Leaf yield (lakhs/ha), B:C Ratio
7. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** Annual report, AICRP on MAP &B, 2012-13

**OFT: 5 (Plant Protection)**

1. **Season:** Kharif 2021
2. **Title of the OFT: Assessment of integrated management of Blast disease in Paddy**
3. **Thematic Area:** IPM
4. **Problem diagnosed:** Chaffy grains due to blast infestation
5. **Important Cause:** High humidity along with high temperature during tillering stage favours disease development
6. **Production system:** Rice- Rice
7. **Micro farming system:** Irrigated medium land
8. **Technology for Testing:** use of seed treatment along with foliar spray of fungicides
9. **Existing Practice:** Application of Tricyclazole 75WP @ 1g/ lit thrice at 10 to 15 days interval
10. **Hypothesis:** to reduce blast infestation by practicing seed treatmentalong with foliar spray of fungicides at periodic interval
11. **Objective(s):** To develop knowledge on management of Blast disease in paddy
12. **Treatments:**
	* 1. Farmers Practice (FP): Application of Tricyclazole 75WP @ 1g/ lit thrice at 10 to 15 days interval
		2. Technology option-I (TO-I): Seed treatment with Carbendazim @2g/kg + Spraying of Tricyclazole 75WP @0.06% + spraying of *Pseudomonas flurosence* @ 0.4g/ lit after 7 days of 1st spray
		3. Technology option-II (TO-II): Seed treatment with *Pseudomonas flurosence* @ 10g/lit water for 30 min + Spraying of Tricyclazole 75WP @0.06% + spraying of *Pseudomonas flurosence* @ 0.4g/ lit after 7 days of 1st spray
13. **Critical Inputs:** Carbendazim, *Pseudomonas flurosence,* Tricyclazole 75WP
14. **Unit Size: 1 ha**
15. **No of Replications: 7**
16. **Unit Cost: 6464/-**
17. **Total Cost: 45250/-**
18. **Monitoring Indicator: EBT/ hill , Cost of operation (Rs/ha), . Yield (q/ha), B:C ratio,**
19. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): ANGRAU annual report 2018, UAS Raichur annual report 2015**

**OFT: 6 (Plant Protection)**

1. **Season: Rabi, 2021-22**
2. **Title of the OFT: Assessment of integrated management of Tikka and Collar rot disease in Ground nut**
3. **Thematic Area:** IDM
4. **Problem diagnosed: Low yield due to incidence of tikka and collar rot diseases**
5. **Important Cause:** High soil moisture along with lack of seed treatment favours fungus infestation
6. **Production system:** Rice- Groundnut
7. **Micro farming system:** Irrigated medium land,
8. **Technology for Testing:** seed treatment, soil application and foliar application of bio-agents along with systemic fungicides
9. **Existing Practice:** only foliar application of fungicides
10. **Hypothesis:** seed treatment and soil application bio-agents along with systemic fungicides foliar spray will reduce disease infestation
11. **Objective(s):** To develop knowledge on management of integrated management of Tikka and Collar rot disease in Ground nut
12. **Treatments:**

**Farmers Practice (FP):** Application of Metalaxyl + Mancozeb @ 2ml/lit water

**Technology option-I (TO-I):** 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.

**Technology option-II (TO-II):** Seed treatment with Tebuconazole @ 1.5 g/kg followed by furrow application o*f T. viride @* 4kg enriched in 50kg FYM/ha as basal application, then broadcasting of *T. viride @* 4kg enriched in 250kg FYM/ha at 40 DAS & 2 sprays of Tebuconazole @ 1ml/lit. Starting from initiation of foliar diseases and 2nd spray at 15 days interval

1. **Critical Inputs:** Carboxin 37.5% + Thiram 37.5 %, chlorothalonil 75 WP, carbendazim, Tebuconazole, *T. viride*
2. **Unit Size: 1 ha**
3. **No of Replications: 7**
4. **Unit Cost: 3640/-**
5. **Total Cost: 25480/-**
6. **Monitoring Indicator:** PDI, Cost of operation (Rs/ha), Yield, B:C ratio
7. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** TNAU research journal , 2015, OUAT Annual report 2016

**OFT: 7 (Forestry)**

1. **Season: Kharif**
2. **Title of the OFT: Assessment of performance of *Bambusa nutans and Bambusa vulgaris***
3. **Thematic Area:** Production technology
4. **Problem diagnosed:** Lakhs Desi bamboo is having less growth and not suitable for homesteads. Fallow and uncultivable lands are available and use of local variety.
5. **Production system:**
6. **Micro farming system:** Irrigated land
7. **Technology for Testing: Assesment**
8. **Existing Practice:** ***Use of desi bamboo***
9. **Objective(s):** To interduce new variety and generate more income
10. **Treatments:**Farmers Practice (FP): ***Use of desi bamboo***
11. Technology option-I (TO-I):Culm cuttings of Babbusa nutant are planted at as spacing of 5x5 m
12. Technology option-II (TO-II): Culm cuttings of Babbusa vulgaris are planted at as spacing of 5x5 m
13. **Critical Inputs:**
14. **Unit Size: .1ha**
15. **No of Replications: 10**
16. **Unit Cost: 1000**
17. **Total Cost: 10000**
18. **Monitoring Indicator: Height (cm) of new culm, No. of sprouts and leaves**
19. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): Forest Department of Odisa, 2010**

**OFT: 8 (Forestry)**

1. **Season: Kharif**
2. **Title of the OFT: Assessment of moringa based agri-horti system**
3. **Thematic Area:** Agroforestry
4. **Problem diagnosed:** Low income due to mono cropping
5. **Production system:**
6. **Micro farming system:** rain fed medium and upland
7. **Technology for Testing:Assesment**
8. **Existing Practice:** Sole cropping of moringa
9. **Objective(s):**
10. **Treatments:** Farmers Practice (FP): Sole cropping of moringa

Technology option-I (TO-I):Drumstick + Brinjal

Technology option-II (TO-II): Drumstick + Okra

1. **Critical Inputs: Seedling of Drumstick/ brinjal and okra**
2. **Unit Size: .1 ha**
3. **No of Replications: 10**
4. **Unit Cost: 2500**
5. **Total Cost: 25000**
6. **Monitoring Indicator:** Plant height(m), diameter, crop yield/ha,
7. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): AICRP on Agro-forestry, OUAT, 2019** \*Repeat the same format for EACH OFT being proposed.

**OFT-09 (Home Sc.)**

* + 1. **Season: Rabi, 2021-22**
1. **Title of the OFT: Assessment of value added products of Tomato for income generation**
2. **Thematic Area:** Value addition
3. **Problem diagnosed:** Distress sale of Tomato
4. **Important Cause:** Lack of knowledge about value added products in Tomato
5. **Production system:**
6. **Micro farming system:**
7. **Technology for Testing:** Preparation of tomato concentrate & Tomato powder
8. **Existing Practice:** Sale of raw tomato
9. **Hypothesis:** preparation of value added products will lead to more income generation
10. **Objective(s):** To prepare value added products
11. **Treatments:**
	* 1. Farmers Practice (FP):- Sale of raw tomato
		2. Technology option-I (TO-I): Preparation of tomato concentrate :preparation of tomatoes concentrate by cooking tomato juices to desired consistency (36 to 38 bricks) bottling hot by pasteurizing the concentrate in hot water for 20 minutes
		3. Technology option-II (TO-II): Preparation of tomato powder: cutting tomatoes in 5mm thickness drying in solar dryer ,grinding, packaging
12. **Critical Inputs: Preservatives (Na benzoate/Potassium metabisulphite, Acetic acid/Citric acid)**
13. **Unit Size: Kg of Product**
14. **No of Replications: 7**
15. **Unit Cost: 100/-**
16. **Total Cost: 1500/-**
17. **Monitoring Indicator:** Yield /kg Tomato
18. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** PHT Centre,TNAU,2015

**OFT-10 (Home Sc.)**

1. **Season:** Kharif, 2021
2. **Title of the OFT: : Assessment of humidity management for production of paddy straw mushroom**
3. **Thematic Area:** women empowerment through income generation
4. **Problem diagnosed:** Low yield of paddy straw mushroom during summer season due to low humidity and rise in environmental temperature
5. **Production system:** Mushroom Cultivation
6. **Micro farming system:** Mushroom Cultivation
7. **Existing Practice:** Cultivation of paddy straw mushroom with natural humidity
8. **Objective(s):** To maintain required humidity for mushroom production
9. **Treatments:**
	* 1. Farmers Practice (FP): cultivation of paddy straw mushroom with natural humidity
		2. Technology option-I (TO-I): spreading 2 to 3”moist sand on the floor of production unit and hanging wet gunny bag on the window
		3. Technology option-II:- use of fogger
10. **Critical Inputs:** paddy straw spawn, fogger
11. **Unit Size:**10 beds
12. **No of Replications:** 7
13. **Unit Cost:** 600/-
14. **Total Cost:** 4200/-
15. **Monitoring Indicator:** %of humidity and yield per bed
16. **Source of Technology-SAU:**- CTMRT ,OUAT 2013

**OFT-11 (Seed Science)**

1. **Season:** Rabi, 2021-22
2. **Title of the OFT:** **Assessment of bio-priming in Green gram**
3. **Thematic Area:** Integrated Crop Management
4. **Problem diagnosed**: Poor germination & plant population in Green gram crop sown under residual moisture
5. **Important Cause:** Moisture stress
6. **Production system:** Rice based production system
7. **Micro farming system:** Rice-Green Gram (Rain-fed medium Land)
8. **Technology for Testing:** Liquid Bio-fertilizer
9. **Existing Practice:** Sowing of unprimed seed
10. **Hypothesis:** Liquid biofertilizer improves the germination & seedling vigour
11. **Objective(s):** Improve germination & plant stand in Green gram sown under residual moisture
12. **Treatments:**

Farmers Practice (FP): Sowing of unprimed seed

Technology option-I (TO-I): Seed priming with liquid Rhizobium (5%)

Technology option-II (TO-II): Seed priming with liquid Phosphobacteria(5%)

Technology option-III (TO-III): Seed priming with liquid Pseudomonas (5%)

1. **Critical Inputs:** Liquid biofertilizer
2. **Unit Size:0.14**
3. **No of Replications: 07**
4. **Unit Cost:** Rs 500/-
5. **Total Cost:** Rs 3500/-
6. **Monitoring Indicator:** Germination %, Speed of germination, Pods/plant (no.), Seed yield (q/ha), B:C Ratio
7. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** Department of Seed Science and Technology, Agricultural College and Research Institute, TNAU, 2019
8. **List of Projects to be implemented by funding from other sources (other than KVK fund)**

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Name of the project** | **Fund expected (Rs.)** |
| **1** | ICAR-ATARI, Kolkata | 3.28 |
| **2** | ICAR-ATARI, Kolkata | 1.00 |
| **3** | ATMA, Balasore | 2.00 |

1. **No. of success stories proposed to be developed with their tentative titles**
* Mushroom cultivation
* Income Generation through rearing of Backyard Poultry
* Boosting yield & income from pulses through cluster approach
* INM in vegetable crops
* Vermi-composting
* Successful Agro-forestry model
* Management of pests in Paddy through integrated approach
1. **Scientific Advisory Committee**

|  |  |
| --- | --- |
| **Date of SAC meeting held during 2020** | **Proposed date during 2021** |
| 04.02.2021 | 15.12.2021 |

1. **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 | 1000 |  |  |  |  |  |  |  |  |  | 50 |  |
| Water Samples | 100 |  |  |  |  |  |  |  |  |  | 25 |  |
| Other (Please specify) | - |  |  |  |  |  |  |  |  |  |  |  |
| Total | 1100 |  |  |  |  |  |  |  |  |  | 75 |  |

1. **Fund requirement and expenditure (Rs.)\***

|  |  |  |
| --- | --- | --- |
| **Heads** | **Expenditure (last year) (Rs.)** | **Expected fund requirement (Rs.)** |
| Pay & Allowances | 108.00 Lakh | 200.00Lakh |
| Traveling allowances | 100000 | 150000 |
| HRD | 30000 | 50000 |
| Contingencies | 1300000 | 1500000 |
| **Total** |  |  |

\* Any additional requirement may be suitably justified.

1. Every KVK should bring a brief write-up supported by quality photographs about the technology having wide acceptability among the farming community of the district with factual data