**REVISED PROFORMA FOR ACTION PLAN 2019-2020**

1. **Name of the KVK: Kalahandi, Odisha**

| **Address** | **Telephone** | | **E mail** |
|---|---|---|---|
| Krishi Vigyan Kendra, Kalahandi, Bhawanipatna-766001 | 8763019752 | - | Kvkkalahandi.ouat@gmail.com<br>kalahandikvk@yahoo.co.in |

**2.Name of host organization :**

| **Address** | **Telephone** | | **E mail** |
|---|---|---|---|
| | **Office** | **FAX** | |
| Odisha University of Agriculture & Technology, Bhubaneswar | 0674-2397362 | 0674-2397933 | deanextensionouat@yahoo.com<br>deanextension_ouat@rediffmail.com |

**3.Training programme to be organized (April 2019 to March 2020)**

**Farmers and farmwomen**

| **Thematic area** | **Title of Training** | **No.** | **Duration** | **Venue On/Off** | **Tentative Date** | **No. of Participants** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | **SC** | | **ST** | | **Other** | | **Total** | | |
| | | | | | | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **T** |
| Nursery Management | Nursery Management in Paddy | 1 | 1 | Off | 31.05.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Crop Production | Package of practices of High density planting system in cotton | 1 | 1 | Off | 03.06.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Nutrient Management | Integrated Nutrient Management in Paddy-Fieldpea cropping system | 1 | 1 | Off | 02.07.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Nutrient management | Nutrient management in Finger millet | 1 | 1 | Off | 25.07.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Weed management | Integrated Weed management practices in upland paddy | 1 | 1 | Off | 02.08.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Crop Production | Scope and Importance of paira cropping | 1 | 1 | Off | 12.09.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Nutrient management | Seed treatment in Greengram | 1 | 1 | Off | 24.09.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Nutrient management | Nutrient management based on CLCC in maize | 1 | 1 | Off | 11.10.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Crop Production | Package of practices of sweet corn | 1 | 1 | Off | 24.10.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Crop Production | Package of practices in Groundnut | 1 | 1 | Off | 14.11.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Intercropping | Intercropping in maize based cropping | 1 | 1 | Off | 18.11.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | system(Maize+Cow pea) | | | | | | | | | | | | | |
| Farm Mechanization | Operational procedure for Potable Cotton Picker | 1 | 1 | Off | 01.01.2020 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Farm Mechanization | Importance and significance of Chironjii seed decortications | 1 | 1 | Off | 01.01.2020 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Pest Management | Management of important pest (SB, LF, GM & BPH) in rice by application of combine pesticide. | 1 | 1 | Off | 10.06.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Pest Management | IPM for management of pod borer complex in pigeonpea | 1 | 1 | Off | 11.09.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Pest Management | Integrated fall army worm management in kharif maize | 1 | 1 | Off | 08.08.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Pest Management | Integrated management of mite in Rabi chilli | 1 | 1 | Off | 07.11.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Pest Management | Integrated management of red spider mite in brinjal | 1 | 1 | Off | 14.11.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Pest Management | Integrated sucking pest management in cotton | 1 | 1 | Off | 21.08.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Disease Management | Method of seed and nursery bed treatment for blast disease management in paddy | 1 | 1 | Off | 17.06.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Pest Management | Integrated management of BPH/WBPH in Rice | 1 | 1 | Off | 20.06.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Pest Management | Integrated thrips management in onion | 1 | 1 | Off | 25.11.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Disease Management | Blast disease management in finger millets | 1 | 1 | Off | 25.09.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Disease Management | Collar rot disease management in groundnut | 1 | 1 | Off | 05.12.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Disease Management | Bacterial wilt management in greengram | 1 | 1 | Off | 11.12.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Pest Management | Safe application of chemical pesticides in Rabi vegetable | 1 | 1 | Off | 21.12.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | crops | | | | | | | | | | | | | |
| Nursery Management | Nursery raising techniques for kharif onion | 1 | 1 | Off | 25.06.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Crop management | Planting method and intercultural practices in papaya | 1 | 1 | Off | 18.07.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Disease management | Wilt Management Practices in Tomato | 1 | 1 | Off | 29.07.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Crop management | Canopy management in Mango orchard | 1 | 1 | Off | 12.09.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| intercrop management | Intercropping of vegetable in Mango orchard | 1 | 1 | Off | 24.09.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Crop management | Improved pollination practices in pointed gourd | 1 | 1 | Off | 22.11.201*9 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Nutrient management | Nutrient and Hormone application in watermelon | 1 | 1 | Off | 29.10.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Crop management | Weed management practice in onion | 1 | 1 | Off | 18.12.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Nutrient management | Micronutrient application in cauliflower | 1 | 1 | Off | 07.01.2020 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Integrated Nutrient management | Integrated nutrient management in Brinjal | 1 | 1 | Off | 18.01.2020 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Crop management | Hand pollination method in Pumpkin | 1 | 1 | Off | 15.02.2020 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Crop management | Gerbera cultivation in Polyhouse | 1 | 1 | Off | 18.03.2020 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Feed management | Optimum Feeding management in crossbred cow for enhanced milk production | 1 | 1 day | off | 19.06.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Feed management | Low cost feed (different oil cakes) as dietary supplements for better performance in dairy cow | 1 | 1 day | off | 28.06.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Disease management | Management and prevention of foot and mouth diseases in cattle and buffalo | 1 | 1 day | off | 2.7.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Disease management | Importance of zoonotic diseases for human health | 1 | 1 day | off | 18.07.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Fodder management | Method and practices for establishment of fodder nursery | 1 | 1 day | off | 06.08.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fodder management | Green fodder production through low cost hydroponics technology | 1 | 1 day | off | 29.08.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Poultry management | Brooding and rearing management of elite poultry birds inside portable brooder | 1 | 1 day | off | 09.09.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Poultry management | Proper disease management and method of vaccination administration in poultry | 1 | 1 day | off | 09.10.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Poultry management | Rearing and feeding management of kadaknath in semi intensive system | 1 | 1 day | off | 09.11.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Poultry management | Care and management of elite duck (*white pekin and khaki cambell*) in semi intensive rearing system | 1 | 1 day | off | 28.11.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Goat management | Care and management of goat for enhanced meat production | 1 | 1 day | off | 15.12.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Goat management | Preventive care diseases and shelter management in goat against infectious pathogens | 1 | 1 day | off | 23.11.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Animal products | Method and preparation of pickle from quail egg for sustainable livelihood in tribal areas | 1 | 1 day | off | 3.12.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |

**(a) Rural youths**

| **Thematic area** | **Title of Training** | **No.** | **Duration** | **Venue On/Off** | **Tentative Date** | **No. of Participants** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | **SC** | | **ST** | | **Other** | | **Total** | | |
| | | | | | | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **T** |
| Organic Farming | Vermicompostin g | 1 | 2 | On | 20.06.2019 - 21.06.2019 | 3 | 2 | 3 | 2 | 3 | 2 | 9 | 6 | 15 |
| Integrated Farming | Pond based Integrated Farming System | 1 | 2 | On | 21.11.2019 - 22.11.2019 | 3 | 2 | 3 | 2 | 3 | 2 | 9 | 6 | 15 |
| Integrated Pest | New generation pesticides and | 1 | 2 | On | 1308.2019 | 3 | 2 | 3 | 2 | 3 | 2 | 9 | 6 | 15 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Management | combine pesticides application method for management of important pests in rice. | | | | | | | | | | | | | |
| Bio-pesticide | Method of production of neem and tobacco based bio pesticide | 1 | 2 | On | 25.11.2019 | 3 | 2 | 3 | 2 | 3 | 2 | 9 | 6 | 15 |
| Value addition | Value addition of Banana | 1 | 1 | On | 12.12.2019 | 3 | 2 | 3 | 2 | 3 | 2 | 9 | 6 | 15 |
| Nursery management | Low cost community nursery by protected cultivation | 1 | 1 | On | 08.02.2020 | 3 | 2 | 3 | 2 | 3 | 2 | 9 | 6 | 15 |
| Fodder production | Method and practices for establishment of low cost silage for enhanced performance in dairy cow | 1 | 2 days | On | 20.09.2019 | 3 | 2 | 3 | 2 | 3 | 2 | 9 | 6 | 15 |
| Poultry management | Care and management of poultry chicks inside portable incubator | 1 | 2 days | On | 14.11.2019 | 3 | 2 | 3 | 2 | 3 | 2 | 9 | 6 | 15 |
| Income generation | Training on employment opportunity through small scale mushroom production | 1 | 2days | On | 20.08.2019 | 3 | 2 | 3 | 2 | 3 | 2 | 9 | 6 | 15 |
| Drudgery reduction | Women friendly small farm tool and implements for drudgery reduction. | 1 | 2days | On | 30.08.2019 | 3 | 2 | 3 | 2 | 3 | 2 | 9 | 6 | 15 |
| Integrated farming system | Round the year income generation through pond based farming system model. | 1 | 2days | On | 15.11.2019 | 3 | 2 | 3 | 2 | 3 | 2 | 9 | 6 | 15 |
| Post harvest management | Training on management procedures to combat harvest & post harvest losses in cereal and pulses | 1 | 2days | On | 25.11.2019 | 3 | 2 | 3 | 2 | 3 | 2 | 9 | 6 | 15 |

**(b) Extension functionaries**

| Thrust area/ Thematic area | Title of Training | No. | Duration | Venue On/Off | Tentative Date | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SC | | ST | | Other | | Total | | |
| | | | | | | M | F | M | F | M | F | M | F | T |
| Crop Production | Package of practices of Paddy for Seed production | 1 | 2 | On | 15.07.2019 to 16.07.2019 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| Nutrient management | LCC based Nutrient management in Paddy | 1 | 2 | On | 16.10.2019 to 17.10.2019 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| Integrated Pest Management | Package of practices for management of BPH/WBPH in rice during kharif season | 1 | 2 | On | 10.07.2019 to 11.07.2019 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| Integrated Pest Management | Package of practices for management of important pests in green gram & Blackgram | 1 | 2 | On | 19.11.2019 to 20.11.2019 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| HOV | Planning and preparation of low cost ripening Chamber | 1 | 1 | On | 18.09.2019 to 19.09.2019 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| HOV | Vegetable grafting method for Brinjal and Tomato | 1 | 1 | On | 29.11.2019 to 30.11.2019 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| Feed management | Formulation of balanced ration for improved performance in dairy cow | 1 | 2 days | On | 19.08.2019 to 20.08.2019 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| Poultry management | Hatching, brooding and growing management of desi chicken in semi intensive rearing system | 1 | 2 days | On | 19.12.2019 to 20.12.2019 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| Agriculture marketing | Market-led challenges & opportunities in Agriculture Extension | 1 | 2days | On | 10.09.2019 to 11.09.2019 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| ICT | Application of | 1 | 2days | On | 22.09.201 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 1 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ICT in agricultural development | | | | 9 to 23.09.2019 | | | | | | | | | 0 |
| Training management | Training need assessment and training designing | 1 | 2days | On | 15.10.2019 to 16.10.2019 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| Agriculture Management | Importance & significance of Public-privat partnership in Agriculture Extension Management | 1 | 2days | On | 25.10.2019 to 26.10.2019 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| Group dynamics | Farm Schools and FFS – Concept and their Operationalization | 1 | 2days | On | 10.12.2019 to 11.12.2019 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| Gender | Gender Mainstreaming and Gender Sensitization | 1 | 2days | On | 20.12.2019 to 21.12.2019 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 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 | 1 | 10 | 5 | 15 | 3 | 2 | 5 | 3 | 2 | 5 | 16 | 9 | 25 |
| Resource Conservation Technologies | | | | | | | | | | | | | |
| Cropping Systems | 1 | 10 | 5 | 15 | 3 | 2 | 5 | 3 | 2 | 5 | 16 | 9 | 25 |
| Crop Diversification | 1 | 10 | 5 | 15 | 3 | 2 | 5 | 3 | 2 | 5 | 16 | 9 | 25 |
| Integrated Farming | | | | | | | | | | | | | |
| Water management | | | | | | | | | | | | | |
| Seed production | | | | | | | | | | | | | |
| Nursery management | 2 | 20 | 10 | 30 | 6 | 4 | 10 | 6 | 1 | 10 | 32 | 18 | 50 |
| Integrated Crop Management | | | | | | | | | | | | | |
| Fodder production | | | | | | | | | | | | | |
| Production of organic inputs | | | | | | | | | | | | | |
| Others, (cultivation of crops ) | 8 | 80 | 40 | 120 | 24 | 16 | 40 | 24 | 16 | 40 | 128 | 72 | 200 |
| **TOTAL** | **13** | **130** | **65** | **195** | **39** | **26** | **65** | **39** | **23** | **65** | **208** | **117** | **325** |
| **II. Horticulture** | | | | | | | | | | | | | |
| a) Vegetable Crops | | | | | | | | | | | | | |
| Integrated nutrient management | 2 | 20 | 10 | 30 | 6 | 4 | 10 | 6 | 1 | 10 | 32 | 18 | 50 |
| Water management | | | | | | | | | | | | | |
| Enterprise development | | | | | | | | | | | | | |
| Skill development | | | | | | | | | | | | | |
| Yield increment | | | | | | | | | | | | | |
| Production of low volume and high value crops | | | | | | | | | | | | | |
| Off-season vegetables | | | | | | | | | | | | | |

| 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 |
| Nursery raising | 1 | 10 | 5 | 15 | 3 | 2 | 5 | 3 | 2 | 5 | 16 | 9 | 25 |
| Exotic vegetables like Broccoli | | | | | | | | | | | | | |
| Export potential vegetables | | | | | | | | | | | | | |
| Grading and standardization | | | | | | | | | | | | | |
| Protective cultivation (Green Houses, Shade Net etc.) | 1 | 10 | 5 | 15 | 3 | 2 | 5 | 3 | 2 | 5 | 16 | 9 | 25 |
| Others, if any (Cultivation of Vegetable) | 6 | 60 | 30 | 90 | 18 | 12 | 30 | 18 | 12 | 30 | 96 | 54 | 150 |
| **TOTAL** | **10** | **100** | **50** | **150** | **30** | **20** | **50** | **30** | **17** | **50** | **160** | **90** | **250** |
| **b) Fruits** | | | | | | | | | | | | | |
| Training and Pruning | | | | | | | | | | | | | |
| Layout and Management of Orchards | | | | | | | | | | | | | |
| Cultivation of Fruit | 1 | 10 | 5 | 15 | 3 | 2 | 5 | 3 | 2 | 5 | 16 | 9 | 25 |
| Management of young plants/orchards | 1 | 10 | 5 | 15 | 3 | 2 | 5 | 3 | 2 | 5 | 16 | 9 | 25 |
| Rejuvenation of old orchards | | | | | | | | | | | | | |
| Export potential fruits | | | | | | | | | | | | | |
| Micro irrigation systems of orchards | | | | | | | | | | | | | |
| Plant propagation techniques | | | | | | | | | | | | | |
| Others, if any(INM) | | | | | | | | | | | | | |
| **TOTAL** | **2** | **20** | **20** | **30** | **6** | **4** | **10** | **6** | **4** | **10** | **32** | **18** | **50** |
| **c) Ornamental Plants** | | | | | | | | | | | | | |
| Nursery Management | | | | | | | | | | | | | |
| Management of potted plants | | | | | | | | | | | | | |
| Export potential of ornamental plants | | | | | | | | | | | | | |
| Propagation techniques of Ornamental Plants | | | | | | | | | | | | | |
| Others, if any | 1 | 10 | 5 | 15 | 3 | 2 | 5 | 3 | 2 | 5 | 16 | 9 | 25 |
| **TOTAL** | **1** | **10** | **5** | **15** | **3** | **2** | **5** | **3** | **2** | **5** | **16** | **9** | **25** |
| **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** | **13** | **130** | **75** | **195** | **39** | **26** | **65** | **39** | **23** | **65** | **208** | **117** | **325** |

| 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 |
| **III. Soil Health and Fertility Management** | | | | | | | | | | | | | |
| Soil fertility management | | | | | | | | | | | | | |
| Soil and Water Conservation | | | | | | | | | | | | | |
| Integrated Nutrient Management | | | | | | | | | | | | | |
| Production and use of organic inputs | | | | | | | | | | | | | |
| Management of Problematic soils | | | | | | | | | | | | | |
| Micro nutrient deficiency in crops | | | | | | | | | | | | | |
| Nutrient Use Efficiency | | | | | | | | | | | | | |
| Soil and Water Testing | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **TOTAL** | | | | | | | | | | | | | |
| **IV. Livestock Production and Management** | | | | | | | | | | | | | |
| Dairy Management | | | | | | | | | | | | | |
| Poultry Management | 4 | 40 | 20 | 60 | 12 | 8 | 20 | 12 | 8 | 20 | 64 | 36 | 100 |
| Piggery Management | | | | | | | | | | | | | |
| Rabbit Management | 2 | 20 | 10 | 30 | 6 | 4 | 10 | 6 | 4 | 10 | 32 | 18 | 50 |
| Disease Management | | | | | | | | | | | | | |
| Feed management | 4 | 40 | 20 | 60 | 12 | 8 | 20 | 12 | 8 | 20 | 64 | 36 | 100 |
| Production of quality animal products | 3 | 30 | 15 | 45 | 9 | 6 | 15 | 9 | 6 | 15 | 48 | 27 | 75 |
| Others, if any (Goat farming) | | | | | | | | | | | | | |
| **TOTAL** | **13** | **130** | **65** | **195** | **39** | **26** | **65** | **39** | **26** | **65** | **208** | **117** | **325** |
| 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 | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | |

| 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 |
| Small scale processing and value addition | | | | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **TOTAL** | | | | | | | | | | | | | |
| **VII. Plant Protection** | | | | | | | | | | | | | |
| Integrated Pest Management | 13 | 130 | 65 | 195 | 39 | 26 | 65 | 39 | 26 | 65 | 208 | 117 | 325 |
| Integrated Disease Management | | | | | | | | | | | | | |
| Bio-control of pests and diseases | | | | | | | | | | | | | |
| Production of bio control agents and bio pesticides | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **TOTAL** | **13** | **130** | **65** | **195** | **39** | **26** | **65** | **39** | **26** | **65** | **208** | **117** | **325** |
| **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 | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | |

| 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 |
| 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 | | | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | | | |
| Integrated Farming Systems | | | | | | | | | | | | | |
| **TOTAL** | | | | | | | | | | | | | |
| **XII. Others (Pl. Specify)** | | | | | | | | | | | | | |
| **TOTAL** | **52** | **520** | **270** | **780** | **156** | **104** | **260** | **156** | **98** | **260** | **832** | **468** | **1300** |

**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 | | | | | | | | | | | | | |
| Bee-keeping | 1 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 15 | 0 | 15 |
| Integrated farming | 1 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 15 | 0 | 15 |
| Seed production | | | | | | | | | | | | | |
| Production of organic inputs | 1 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 15 | 0 | 15 |
| Planting material production | | | | | | | | | | | | | |
| Vermi-culture | 1 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 15 | 0 | 15 |
| Sericulture | | | | | | | | | | | | | |
| Protected cultivation of vegetable crops | | | | | | | | | | | | | |
| Commercial fruit production | | | | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| Nursery Management of Horticulture crops | 1 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 15 | 0 | 15 |
| Training and pruning of orchards | | | | | | | | | | | | | |
| Value addition | 1 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 15 | 0 | 15 |
| Production of quality animal products | | | | | | | | | | | | | |
| Dairying | 1 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 15 | 0 | 15 |
| Sheep and goat rearing | | | | | | | | | | | | | |
| Quail farming | | | | | | | | | | | | | |
| Piggery | | | | | | | | | | | | | |
| Rabbit farming | | | | | | | | | | | | | |
| Poultry production | 1 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 15 | 0 | 15 |
| Ornamental fisheries | | | | | | | | | | | | | |
| Para vets | | | | | | | | | | | | | |
| Para extension workers | | | | | | | | | | | | | |
| Composite fish culture | | | | | | | | | | | | | |

| 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 |
| Freshwater prawn culture | | | | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | | | | |
| Pearl culture | | | | | | | | | | | | | |
| Cold water fisheries | | | | | | | | | | | | | |
| Fish harvest and processing technology | | | | | | | | | | | | | |
| Fry and fingerling rearing | | | | | | | | | | | | | |
| Small scale processing | 1 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 15 | 0 | 15 |
| Post Harvest Technology | | | | | | | | | | | | | |
| Tailoring and Stitching | | | | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | | | | |
| Enterprise development | | | | | | | | | | | | | |
| Disease management | 02 | 10 | 0 | 10 | 10 | 0 | 10 | 10 | 0 | 10 | 30 | 0 | 30 |
| Drudgery reduction | 1 | 5 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5 | 15 | 0 | 15 |
| Others if any (ICT application in agriculture) | | | | | | | | | | | | | |
| TOTAL | **12** | **60** | **0** | **60** | **60** | **0** | **60** | **60** | **0** | **60** | **180** | **0** | **180** |

**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 | | | | | | | | | | | | | |
| Integrated Pest Management | 02 | 6 | 2 | 8 | 4 | 2 | 6 | 4 | 2 | 6 | 14 | 6 | 20 |
| Integrated Nutrient management | 1 | 3 | 1 | 4 | 2 | 1 | 3 | 2 | 1 | 3 | 7 | 3 | 10 |
| Rejuvenation of old orchards | | | | | | | | | | | | | |
| Value addition | | | | | | | | | | | | | |
| Protected cultivation technology | | | | | | | | | | | | | |
| Formation and Management of SHGs | | | | | | | | | | | | | |
| Group Dynamics and farmers organization | 1 | 3 | 1 | 4 | 2 | 1 | 3 | 2 | 1 | 3 | 7 | 3 | 10 |
| Information networking among farmers | 3 | 9 | 3 | 12 | 3 | 3 | 9 | 6 | 3 | 9 | 21 | 9 | 30 |
| Capacity building for ICT application | 1 | 3 | 1 | 4 | 2 | 1 | 3 | 2 | 1 | 3 | 7 | 3 | 10 |
| Care and maintenance of farm machinery and implements | | | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WTO and IPR issues | | | | | | | | | | | | | |
| Management in farm animals | 1 | 3 | 1 | 4 | 2 | 1 | 3 | 2 | 1 | 3 | 7 | 3 | 10 |
| Livestock feed and fodder production | 1 | 3 | 1 | 4 | 2 | 1 | 3 | 2 | 1 | 3 | 7 | 3 | 10 |
| Household food security | | | | | | | | | | | | | |
| Women and Child care | | | | | | | | | | | | | |
| Low cost and nutrient efficient diet designing | | | | | | | | | | | | | |
| Production and use of organic inputs | | | | | | | | | | | | | |
| Gender mainstreaming through SHGs | 1 | 3 | 1 | 4 | 2 | 1 | 3 | 2 | 1 | 3 | 7 | 3 | 10 |
| Crop intensification | | | | | | | | | | | | | |
| Others if any | 3 | 9 | 3 | 12 | 3 | 3 | 9 | 6 | 3 | 9 | 21 | 9 | 30 |
| **TOTAL** | **14** | **42** | **14** | **56** | **22** | **14** | **42** | **28** | **14** | **42** | **98** | **42** | **140** |

**4.** Frontline demonstration to be conducted*

**FLD-1**

High Density Planting System of Cotton in Rainfed upland
Crop: Cotton
Thrust Area: Reduction in yield of cotton due to improper method of planting
Thematic Area: Method of planting
Season: Kharif
Farming Situation: Rainfed Upland

**FLD-2**

Demonstration on nutrient management in Rice-Fieldpea (paira) cropping system
Crop: Rice, Field pea
Thrust Area: Rice-fallow
Thematic Area: Nutrient management in Cropping System
Season: Kharif-Rabi, 2019-20
Farming Situation: Rainfed medium land

**FLD-3**

Demonstration on CLCC based nutrient management in Maize
Crop: Maize
Thrust Area: Low Nitrogen use efficiency
Thematic Area: Nutrient management
Season: Rabi, 2019
Farming Situation: Rainfed Upland

**FLD-4**

Demonstration of sweet corn (Sugar-75 ) in rice- maize cropping system
Crop: Maize (Sweetcorn)
Thrust Area: Distress sale
Thematic Area: Crop Production
Season: Rabi, 2019
Farming Situation: Rainfed Upland

**FLD-5**
Demonstration on Management of Chilli mite
Crop: Chilli
Thrust Area: IPM in chilli
Thematic Area: Chilli mite management
Season: Rabi 2019-20
Farming Situation: Irrigated medium land, Rice-Chilli cropping system

**FLD-6**
Demonstration on Management of blast in rice
Crop: Rice
Thrust Area: IDM in Rice
Thematic Area: Blast management in rice
Season: Kharif- 2019
Farming Situation: Rainfed, medium land,(Rice-fallow)

**FLD-7**
Demonstration on Management of Red spider mite in Brinjal
Crop: Brinjal
Thrust Area: IPM in brinjal
Thematic Area: Brinjal red spider management
Season: Rabi 2019-20
Farming Situation: Irrigated medium land

**FLD-8**
Demonstration on IPM module for Management of Sucking pest in Cotton
Crop: Cotton
Thrust Area: IPM in cotton
Thematic Area: Sucking pest management in cotton
Season: Kharif- 2019
Farming Situation: Rainfed Upland

**FLD-9**
Demonstration on wilt resistant hybrid tomato Arka Samrat
Crop: Tomato
Thrust Area: Low yield due to wilt incidence
Thematic Area: Wilt management
Season: Pre rabi, 2019
Farming Situation: Irrigated upland, vegetable-fallow

**FLD-10**
Demonstration on application of herbicide for weed management in onion
Crop: Onion
Thrust Area: High incidence of weed in onion
Thematic Area: Weed management
Season: Rabi, 2019-20
Farming Situation: Irrigated medium land

**FLD-11**
Demonstration on cultivation of marigold variety Ceracole
Crop: Ceracole
Thrust Area: Low consumer preference from existing local cultivars
Thematic Area: Varietal evaluation
Season: Rabi, 2019-20
Farming Situation: Irrigated medium land

**FLD-12**
Demonstration on ethrel application in watermelon for enhanced fruit setting
Crop: Watermelon
Thrust Area: Less no. of female flower and fruit set
Thematic Area: Crop management
Season: Rabi, 2019-20
Farming Situation: Irrigated medium land

**FLD-13**
Demonstration of Kadaknath Chicken in Backyard
Crop: Poultry
Thrust Area: Low income from backyard poultry
Thematic Area: Production Management
Season: Rabi, 2019-20
Farming Situation: Homestead

**FLD-14**
Demonstration on composite fodder nursery for round the year production
Crop: Fodder (Hybrib Napier, Cowpea, Jower, Berseem, guinea grass)
Thrust Area: High feed cost and unavailability of grasses in lean period resulting lower milk yield in lactating cow
Thematic Area: Feed & fodder
Season: Kharif, 2019-20
Farming Situation: Irrigated medium land

**FLD-15**
Demonstration on portable brooder to control early mortality in poultry chick
Crop: Poultry
Thrust Area: Poor sustainability of backyard poultry rearing due to non availability of brooded chicks at village level
Thematic Area: Production Management
Season: Rabi, 2019-20
Farming Situation: Poultry farming

**FLD-16**
Demonstration on low cost silage making for feeding cows during lean period
Crop: Maize
Thrust Area: Unavailability of quality roughage during lean period
Thematic Area: Feed and fodder
Season: Rabi, 2019-20
Farming Situation: Semi intensive dairy farming

**FLD-17**
Demonstration on Chironji seed Decorticator
Crop: Chironji seed
Thrust Area: High cost due to manual decortication
Thematic Area: Farm mechanisation
Season: Rabi, 2019-20
Farming Situation: Forest based

**FLD-18**
Demonstration on Portable Cotton Picker
Crop: Cotton
Thrust Area: High cost of cultivation due to manual picking
Thematic Area: Farm mechanisation
Season: Rabi, 2019-20
Farming Situation: Rainfed Upland

**FLD-19**
Demonstration on effectiveness of short technology videos on technology adoption
Crop: Short video on Green gram
Thrust Area: technologies get transferred to farmers' trough conventional methods only
Thematic Area: ICT
Season: Rabi, 2019-20

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 |
| 1. | Cotton | 1.0 | High Density Cotton Planting(Planting of cotton with spacing 60X10cm with RDF(N:P:K) @90:45:45 kg/ha ) | Plant Height No of boll/ plant Boll size Lint Percentage Yield/ha, Economics B:C Ratio | Seed, Fertilizer | 32000 | 28500 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| 2. | Paddy, Field pea | 1.0 | Line Sowing through seed drill followed by STBF application and Field pea as Paira crop | Plant height (cm), No. of tillers, No. of effective tillers, Panicle length,Rice equivalent yield, Economics , B:C Ratio | Seed, Fertilizer | 35500 | 27200 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| 3. | Maize | 1.0 | Application of urea based on CLCC reading | No of cob/plant, Cob size, cob weight, No. of grains/cob, Yield, B:C ratio, Net profit | CLCC, Seed, Fertilizer | 32700 | 30500 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| 4. | Maize(Sweetcorn) | 1.0 | Sweetcorn (Sugar-75) is Suitable for rabi, season duration 80-85 days in rabi, yield – 66000 cobs/ha | No of cob/plant, Cob size, cob weight, No. of grains/cob, Yield, B:C ratio, Net | Seed | 50700 | 30500 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | profit | | | | | | | | | | | | |
| 5. | Chilli | 1.0 | Removal of affected plant part + Spraying of emulsifier to break the webs + Need based application of Fenazaquin 10 EC @ 1 ml/lit. at 7-8 days interval with Fenpyroximate 5 EC @1 ml/ lit at 7-8 days interval | Percentage of leaf curl/ plant No. of affected plant/ sq. meter Yield (q/ha), Net return (Rs/ha, )B:C ratio, Incremental B:C | Fenazaquin 10 EC Fenpyroximate 5 EC | 2000 | 1350 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| 6. | Rice | 1.0 | Seed treatment with carboxin 37.5%+ thiram 37.5% @2.5 gm/kg and foliar spraying of tricyclazole @ 0.06% twice at 15 days interval starting from the initiation of disease | Disease Index % % of infestation Yield (q/ha), Net return (Rs/ha) B:C ratio | carboxin 37.5%+ thiram 37.5% | 1850 | 1200 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| 7. | Brinjal | 1.0 | Application of neem cake @ 625 kg/ha Application of Etoxazole 10 % SC @ 40 gm a.i /ha | No of plant affected/sq mt Extent of infestation (%) Yield (q/ha), Net return (Rs/ha, )B:C ratio | Neem cake Etoxazole 10 % SC | 1500 | 1000 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| 8. | Cotton | 1.0 | Planting of maize as border crop around the field, intercropping of cowpea @ 10:1 ratio. | No of affected plant /Mt $^2$ No of insect/plant % of infestation | Azadirachtin 0.15% Flonicamid 50% WG | 2200 | 1500 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Application of Azadirachtin 0.15%@ 1.5 Lit./ ha twice @ 30 & 45 DAS followed by application of Flonicamid 50% WG @ 175 gm/ha twice at 10 days interval | Yield (q/ha), Net return (Rs/ha, )B:C ratio | | | | | | | | | | | | |
| 9. | Tomato | 1.0 | Demonstration on wilt resistant hybrid tomato Arka Samrat | Wilt (%) Fruit wt. (gm) No. of fruit/Plant | hybrid tomato Arka Samrat | 4000 | 2500 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| 10. | Onion | 1.0 | Demonstration on application of herbicide for weed management in onion Pre emergence application of pendimethalin 750 g/ha followed by application of Quizalophop-p-ethyl 50 g/ha at 20 DAS | Weed population count (No.) Weed index (%) | Pendimethalin Quizalophop-p-ethyl | 2200 | 1450 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| 11. | Marigold | 1.0 | Demonstration on cultivation of marigold variety Ceracole | Plant height (Cm) No. of flower/plant No. of primary/secondary branches | marigold variety Ceracole | 2000 | 800 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| 12. | Watermelon | 1.0 | Demonstration on ethrel application in watermelon for enhanced fruit setting Spray Ethrel 2.5 ml/10 lit of water 4 times at weekly | No. of Female flower, Days to female flower, Fruit drop (%) Fruit weight (Kg) | Ethrel | 1200 | 560 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | intervals commencing from 15 days after sowing. | | | | | | | | | | | | | |
| 13. | Poultry | 1.0 | Rearing of Kadaknath in back yard with 30-50 gm of feed per bird, vaccination against RD on 7th day, 28 day, IBD on 14th day. | Body weight gain, FCR, Mortality rate, Egg laying capacity Net return, B:C ratio | Kadaknath chicks RD vaccination | 5000 | 3500 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| 14. | Fodder | 1.0 | Cultivation of variety of fodder grasses ( Hybrib Napier, Cowpea, Jower, Berseem, guinea grass in a nursery form. Hybrid napier (80 cm in between rows and 60 cm between plants). 200 sq meter for each variety . | Green fodder yield/ha, Cuttings/Year Cost of intervention. B:C ratio, | fodder grasses | 2000 | 1200 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| 15. | Poultry | 1.0 | Brooding management inside a portable brooder for 21 days with floor space of 0.3 sqft/bird, artificial heat @ 1-3 watt per chick , feeders and drinkers @ 1 each per 50 chicks, vaccination with against RD on 7$^{th}$ day, 28 day, IBD on 14$^{th}$ day . Use of electrolytes, preventive | Chick mortality rate during brooding period, body weight at 21 days, survivability of birds till start of laying Cost of intervention, B:C ratio, | portable brooder | 20000 | 5000 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | antibiotics during brooding. | | | | | | | | | | | | | |
| 16. | Maize | 1.0 | Maize fodder chaffed to approximately 2-3 cm size, added with lactobacillus inoculants at the rate of one sporolac sachet per 4 q fodder, put inside a plastic bag in airtight manner be maintained under anaerobic environment in silo tanks made of concentric cement rings of 3-5 ft diameter, for 8 week and feed the silage, after air drying, as a replacement for paddy straw at the level of 25-50% | Yield (q/ha), Palatability, Milk yield Cost of intervention. B:C ratio, | Plastic bag | 5000 | 1500 | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| 17. | Chironji | -- | Use of Mechanical Chironji seed Decorticator Chironji seed Decorticator. 40kg/hr(1hp Machine ) Efficiency - 70% Shelling - 20% | Efficiency (%) Recovery (%) Broken (%) Cost saving(Rs. ) Labour Saving(Rs. ) | Chironji seed Decorticator | -- | -- | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |
| 18. | Cotton | -- | Use of Portable Cotton Picker | Capacity (Kg/hrs) Efficiency (%) Cost saving(Rs. ) | Portable Cotton Picker | 6000 | -- | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 10 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Labour Saving(Rs. ) | | | | | | | | | | | | |
| 19. | Greengram | -- | Production packages will be divided into different segments and short videos will be produced and disseminated through whatsapp. | Change in attitude -Change in perception on expected behavioural control - Application of the message | short videos on greemgram | 5000 | -- | 2 | 1 | 2 | 1 | 3 | 1 | 7 | 3 | 100 |

**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 of practices of High density planting system in cotton | 1 | F/FW | Off | 03.06.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Method demonstration | High Density Planting System of Cotton in Rainfed upland | 1 | F/FW | Off | 05.07.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Field Day | High Density Planting System of Cotton in Rainfed upland | 1 | F/FW | Off | 05.01.2020 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Training | Integrated Nutrient Management in Paddy-Fieldpea cropping system | 1 | 1 | Off | 02.07.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Training | Scope and Importance of paira cropping | 1 | 1 | Off | 12.09.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Field Day | Integrated Nutrient | 1 | F/FW | Off | 05.11.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Management in Paddy-Fieldpea cropping system | | | | | | | | | | | | | |
| Training | Nutrient management based on CLCC in maize | 1 | F/FW | Off | 11.10.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Method Demonstration | Nutrient management based on CLCC in maize | 1 | F/FW | Off | 14.10.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Field Day | Nutrient management based on CLCC in maize | 1 | F/FW | Off | 20.01.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Training | Package of practices of sweet corn | 1 | F/FW | Off | 24.10.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Field Day | Demonstration of sweet corn (Sugar-75 ) in rice-maize cropping system | 1 | F/FW | Off | 24.01.2019 | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Training | Integrated management of mite in Rabi chilli | 1 | F/FW | 1 | Off | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Training | Integrated management of red spider mite in brinjal | 1 | F/FW | 1 | Off | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Training | Integrated sucking pest management in cotton | 1 | F/FW | 1 | Off | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Training | Method of seed and nursery bed treatment for blast disease management in paddy | 1 | F/FW | 1 | Off | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Training | New generation pesticides and combine pesticides | 1 | F/FW | 1 | On | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | application method for management of important pests in rice. | | | | | | | | | | | | | |
| Training | IPM package of practices for management of sucking pest in cotton | 1 | F/FW | 1 | On | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Field day | Demonstration on wilt resistant hybrid tomato Arka Samrat | 1 | F/FW | 50 | Off | 6 | 4 | 6 | 4 | 20 | 10 | 32 | 18 | 50 |
| Field Day | Demonstration on application of herbicide for weed management in onion | 1 | F/FW | 50 | Off | 6 | 4 | 6 | 4 | 20 | 10 | 32 | 18 | 50 |
| Training | Weed management practice in onion | 1 | F/FW | 1 | Off | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Field Day | Demonstration on cultivation of marigold variety Ceracole | 1 | F/FW | 50 | Off | 6 | 4 | 6 | 4 | 20 | 10 | 32 | 18 | 50 |
| Training | Pinching and nutrient management in marigold | 1 | F/FW | 1 | Off | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Field Day | Demonstration on ethrel application in watermelon for enhanced fruit setting | 1 | F/FW | 50 | Off | 6 | 4 | 6 | 4 | 20 | 10 | 32 | 18 | 50 |
| Training | Nutrient and Hormone application in watermelon | 1 | F/FW | 1 | Off | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Training | Brooding and rearing management of elite poultry birds inside portable | 1 | F/FW | 1 | Off | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Field Day | | 1 | F/FW | 50 | Off | 6 | 4 | 6 | 4 | 20 | 10 | 32 | 18 | 50 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | brooder | | | | | | | | | | | | | |
| Training | Rearing and feeding management of kadaknath in semi intensive system | 1 | F/FW | 1 | Off | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Field Day | | 1 | F/FW | 50 | Off | 6 | 4 | 6 | 4 | 20 | 10 | 32 | 18 | 50 |
| Field Day | Use of Portable Cotton Picker | 1 | F/FW | 50 | Off | 6 | 4 | 6 | 4 | 20 | 10 | 32 | 18 | 50 |
| Method Demonstration | Portable Cotton Picker | 1 | F/FW | 50 | Off | 6 | 4 | 6 | 4 | 20 | 10 | 32 | 18 | 50 |
| Method Demonstration | Chironjii seed decortication | 1 | F/FW | 50 | Off | 6 | 4 | 6 | 4 | 20 | 10 | 32 | 18 | 50 |

* Repeat the above tables and information in Point no. 4 for EACH FLD being proposed.

**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 (quintals)/Nos** | **Cost of inputs (Rs.)** | **Expected Gross income (Rs.)** | **Expected Net Income (Rs.)** |
| Paddy | MTU-1001 | 15.07.2019 to 01.12.2019 | 5.0 | FS | 200.0 | 315000 | 502000 | 187000 |
| Paddy | Mrunalini | 25.07.2019 to 15.12.2019 | 5.0 | FS | 200.0 | 315000 | 502000 | 187000 |
| Brinjal | VNR-212 | 20.06.2019 to 30.10.2019 | 250 sq.mt | PM | 50000 | 4000 | 50000 | 41600 |
| Tomato | Arka Samrat, Laxmi | 20.06.2019 to 30.10.2019 | 250 sq.mt | PM | 40000 | 6000 | 40000 | 33000 |
| Cabbage | Green ball | 01.11.2019 to 30.02.2020 | 250 sq. mt | PM | 5000 | 1000 | 10000 | 7200 |
| Cauliflower | Snow ball | 01.11.2019 to 30.02.2020 | 250 sq.mt | PM | 10000 | 2000 | 20000 | 14400 |
| Marigold | Ceracole | 20.06.2019 to 30.02.2020 | 250 sq.mt | PM | 50000 | 3000 | 50000 | 41600 |
| Papaya | Red Lady | 20.08.2019 to 30.11.2019 | 250 sq.mt | PM | 500 | 3000 | 10000 | 8600 |
| Drumstick | PKM-1 | 20.08.2019 to 30.11.2019 | 250 sq.mt | PM | 300 | 2000 | 4500 | 3650 |
| Onion | AFLR | 01.11.2019 to 30.02.2020 | 250 sq.mt | PM | 10000 | 2000 | 5000 | 3880 |
| Capsicum | Indra | 01.11.2019 to 30.01.2020 | 250 sq.mt | PM | 1000 | 800 | 2000 | 1720 |
| Mushroom Production | V.Volvaceae, P.Sajarcaju | 01.06.2019 to 28.02.2020 | -- | Mushroom | 2.0 | 9000 | 18000 | 9000 |
| Mushroom Spawn | V.Volvaceae, P.Sajarcaju | 01.06.2019 to 28.02.2020 | -- | M. spawn | 1500 | 12000 | 24000 | 12000 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Poultry | Kadaknath, Chhabro Rainbow Booster | 01.09.2019 to 31.03.2020 | -- | Chicks | 4000 | 120000 | 200000 | 80000 |

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 | 12 | -- | -- | 900 | -- | -- | -- | 60 | -- | -- | 960 |
| 2. | KisanMela | 01 | -- | -- | 250 | -- | -- | -- | 50 | -- | -- | 300 |
| 3. | KisanGhosthi | 02 | -- | -- | 200 | -- | -- | -- | 50 | -- | -- | 250 |
| 4. | Exhibition | 03 | -- | -- | 600 | -- | -- | -- | 100 | -- | -- | 700 |
| 5. | Film Show | 10 | -- | -- | 1500 | -- | -- | -- | 50 | -- | -- | 2000 |
| 6. | Method Demonstrations | 10 | -- | -- | 250 | -- | -- | -- | 20 | -- | -- | 270 |
| 7. | Farmers Seminar | 2 | -- | -- | 100 | -- | -- | -- | 30 | -- | -- | 130 |
| 8. | Workshop | 2 | -- | -- | 100 | -- | -- | -- | 30 | -- | -- | 130 |
| 9. | Group meetings | 12 | -- | -- | 60 | -- | -- | -- | 240 | -- | -- | 300 |
| 10 | Lectures delivered as resource persons | 25 | -- | -- | 1250 | -- | -- | -- | 100 | -- | -- | 1325 |
| 11 | Advisory Services | 52 | -- | -- | 16941 | -- | -- | -- | -- | -- | -- | 16941 |
| 12 | Scientific visit to farmers field | 80 | -- | -- | 800 | -- | -- | -- | -- | -- | -- | 800 |
| 13 | Farmers visit to KVK | 600 | -- | -- | 600 | -- | -- | -- | -- | -- | -- | 600 |
| 14 | Diagnostic visits | 10 | -- | -- | 200 | -- | -- | -- | 50 | -- | -- | 250 |
| 15 | Exposure visits | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 16 | Ex-trainees Sammelan | 4 | -- | -- | 100 | -- | -- | -- | -- | -- | -- | 100 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | Soil health Camp | 2 | -- | -- | 300 | -- | -- | -- | 20 | -- | -- | 320 |
| 18 | Animal Health Camp | 2 | -- | -- | 300 | -- | -- | -- | 20 | -- | -- | 320 |
| 19 | Agri mobile clinic | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 20 | Soil test campaigns | 2 | -- | -- | 200 | -- | -- | -- | 20 | -- | -- | 220 |
| 21 | Farm Science Club Conveners meet | 2 | -- | -- | 100 | -- | -- | -- | 20 | -- | -- | 220 |
| 22 | Self Help Group Conveners meetings | 4 | -- | -- | 80 | -- | -- | -- | 20 | -- | -- | 100 |
| 23 | MahilaMandals Conveners meetings | 2 | -- | -- | 100 | -- | -- | -- | 20 | -- | -- | 120 |
| 24 | Celebration of important days (specify) | 5 | -- | -- | 250 | -- | -- | -- | 50 | -- | -- | 300 |
| 25 | Sankalp Se Siddhi | 1 | -- | -- | 250 | -- | -- | -- | 50 | -- | -- | 300 |
| 26 | Swatchta Hi Sewa | 2 | -- | -- | 200 | -- | -- | -- | 50 | -- | -- | 250 |
| 27 | Mahila Kisan Diwas | 1 | -- | -- | 100 | -- | -- | -- | 20 | -- | -- | 120 |
| 28 | Any Other (Specify) | | | | | | | | | | | |
| | Total | 848 | | | 25731 | | | | 1070 | | | 27326 |

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

| Opening balance of 2019-2020 (As on 01.04.2019) | Amount proposed to be invested during 2019-2020 | Expected Return |
|---|---|---|
| **18,25,948.05** | **5,50,000/-** | **6,20,000/-** |

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

| Project | Source | Amount to be received (Rs. in lakh) |
|---|---|---|
| ATMA | O/o Deputy Director Agriculture, Kalahandi | 50,000/- |
| BGREI | O/o Deputy Director Agriculture, Kalahandi | 50,000/- |
| NFSM | O/o Deputy Director Agriculture, Kalahandi | 50,000/- |

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

**OFT-1**

| | | | |
|---|---|---|---|
| i. | Season | : | Kharif, 2019 |
| ii. | Title of the OFT | : | Assessment of BPH tolerant rice varieties in shallow low land situation |
| iii. | Thematic Area | : | Varietal Trial |
| iv. | Problem diagnosed | : | Reduction in yield |
| v. | Important Cause | : | Due to use of varieties susceptible to BPH. |
| vi. | Production system | : | Rice-Greengram |
| vii. | Micro farming system | : | Rainfed Shallow lowland |

| | | | |
|---|---|---|---|
| viii. | Technology for Testing | : | T $O_1$ - Duration 135 days , grain type-Short Bold Moderately resistant to blast, neck blast, brown spot sheath blight, WBPH<br>T $O_2$ - Duration 145 days, medium slender, panicle length: 27.8 cm; average yield: 55-60 q/ha; tolerant to BPH |
| ix. | Existing Practice | : | . Cultivation of Rice var. MTU-7029 |
| x. | Hypothesis | : | It has been tested and found that the Hasanta Variety has less affected by BPH in several KVKs of Odisha |
| xi. | Objective(s) | : | To select the best BPH tolerant variety for the agro-ecological situation |
| xii. | Treatments | : | Technology option-I (TO-I): CR Dhan 307<br>Technology option-II (TO-II): Hasanta |
| xiii. | Critical Inputs | : | Seeds- CR Dhan 307 & Hasanta |
| xiv. | Unit Size | : | 0.52ha |
| xv. | No of Replications | | 07 |
| xvi. | Unit Cost | | Rs.3000/- |
| xvii. | Total Cost | | Rs.21000/- |
| xviii. | Monitoring Indicator | | Plant height, Grains/panicle, BPH infestation, Test weight |
| xix. | Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify) | | TO-I: Annual Report, NRRI 2014<br>TO-II : AICRP on Rice, Chipilima 2015 |

**OFT-2**

| | | | |
|---|---|---|---|
| i. | Season | : | Kharif, 2019 |
| ii. | Title of the OFT | : | Assessment of Finger millet varieties in rainfed upland |
| iii. | Thematic Area | : | Varietal Trial |
| iv. | Problem diagnosed | : | Reduction in yield |
| v. | Important Cause | : | Due to continuous use of same local variety |
| vi. | Production system | : | Ragi-Fallow |
| vii. | Micro farming system | : | Rainfed upland |
| viii. | Technology for Testing | : | T $O_1$- Maturity duration 110 days with average yield 17.6 q/ha., Moderate resistance to leaf, neck blast and brown colour seed<br>T $O_2$- Maturity duration 110 days and average yield 20.7q/ha., with moderate resistance to leaf, neck and finger blast and brown colour seed |
| ix. | Existing Practice | : | Cultivation of Local ragi (Nali mandia) |
| x. | Hypothesis | : | There may be chances of higher productivity in Ragi variety Arjun (OEB-526) followed by Bhairabi than then local variety |
| xi. | Objective(s) | : | To increase production per unit area. |
| xii. | Treatments | : | Technology option-I (TO-I): Bhairabi<br>Technology option-II (TO-II): Arjun (OEB-526) |
| xiii. | Critical Inputs | : | Bhairabi Arjun (OEB-526) |
| xiv. | Unit Size | : | 0.52ha |
| xv. | No of Replications | : | 07 |
| xvi. | Unit Cost | : | Rs.2000/- |
| xvii. | Total Cost | : | Rs.14000/- |
| xviii. | Monitoring Indicator | : | Plant height, No of tillers/plant, No. of effective Finger/Plant, Net Return, Yield, BCR . |
| xix. | Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify) | : | TO-I : AICRP on millet, CPR, Berhampur 1999<br>TO-II : OUAT- 2016 (Annual Report 2016-17, OUAT |

**OFT-3**

| | | | |
|---|---|---|---|
| xx. | Season | : | Kharif-2019 |
| xxi. | Title of the OFT | : | Assessment of combine insecticides for management of major insect pest of rice |
| xxii. | Thematic Area | : | IPM in rice |
| xxiii. | Problem diagnosed | : | Low yield of rice due to heavy infestation of rice pest like rice stem borer, gall midge, leaf- |
| xxiv. | Important Cause | : | folder and BPH Application of improper pesticides with proper dose and time, single pesticide application, high dose of nitrogenous fertilizer application |
| xxv. | Production system | : | Rice-greengram |
| xxvi. | Micro farming system | : | Irrigated medium land, rice-greengram |
| xxvii. | Technology for Testing | : | Testing of combine pesticides for management of important pests in rice |
| xxviii. | Existing Practice | : | Farmers are apply single pesticides like cartaphydrochloride @ 800ml/ha, chloropyrifos @ 1.0 lt/ha, Indoxacarb @ 1.0 lt/ha etc. results high cost of input |
| xxix. | Hypothesis | : | This technology have been tested under pesticide trail in research stations of OUAT which results better control than single pesticide application |
| xxx. | Objective(s) | : | To control the major insect pest through application of combine insecticides |
| xxxi. | Treatments | : | Farmers Practice (FP): Farmers are apply single pesticides like cartaphydrochloride @ 800ml/ha, chloropyrifos @ 1.0 lt/ha, Indoxacarb @ 1.0 lt/ha etc.<br>Technology option-I (TO-I): Application of Flubendiamide 240 SC + Thiacloprid 240 SC (Belt Expert) @ 300 ml/ha twice i.e. at Tillering & P.I. stage for management of rice stem borer, gall midge, leaf-folder and BPH |
| xxxii. | Critical Inputs | : | Flubendiamide 240 SC + Thiacloprid 240 SC (Belt Expert) & Ethiprole 40% + Imidacloprid<br>40% (Glamore) |
| xxxiii. | Unit Size | : | 0.52 ha |
| xxxiv. | No of Replications | : | 13 |
| xxxv. | Unit Cost | : | Rs. 150 /- |
| xxxvi. | Total Cost | : | Rs. 1950/- |
| xxvii. | Monitoring Indicator | : | Silver shoot %, Dead heart %, WEH %, BPH reduction %, LF reduction %<br>Extent of infestation (%)<br>Yield (q/ha), Net return (Rs/ha), B:C ratio |
| xxviii. | Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify) | : | OUAT annual report, 2017 |

**OFT-4**

| | | | |
|---|---|---|---|
| i. | Season | : | Kharif-2019 |
| ii. | Title of the OFT | : | Assessment of IPM module for management of fall army worm in maize |
| iii. | Thematic Area | : | IPM in Maize |
| iv. | Problem diagnosed | : | Low yield of maize (28qtl/ha) due to severe fall army worm infestation during late kharif season |
| v. | Important Cause | : | Application of improper pesticides with proper dose, time and high dose of nitrogenous fertilizer application |
| vi. | Production system | : | Maize-fallow |
| vii. | Micro farming system | : | Rainfed upland Maize- fallow |
| viii. | Technology for Testing | : | Testing of bio pesticides, fungicides with chemical pesticides |
| ix. | Existing Practice | : | Farmers are applying cypermethrin, triazofos pesticides during pest appearance stage @ 1.0 lt/ha |

| | | | |
|---|---|---|---|
| x. | Hypothesis | : | This technology have been recommended by plant protection division, Krishi Bhawan, Govt |
| xi. | Objective(s) | : | Timely and effectively management of the maize fall army worm to increase productivity |
| xii. | Treatments | : | Farmers Practice (FP): Farmers are applying cypermethrin, triazofos pesticides during pest appearance stage @1.0 lt/ha<br>Technology option-I (TO-I): Application of 5% NSKE/ Azadirachtin 1500 PPM @ 5ml/l of water during egg laying stage to avoid egg hatchin<br>Technology option-II (TO-II): *Metarhizium anisopliae* @ 5gm/l water at 15-25 days after sowing<br>Technology option-III (TO-III): Application of Emamectin benzoate @ 0.4 gm/l of water to manage the 2nd & 3rd instars larvae |
| xiii. | Critical Inputs | : | Azadirachtin 1500 PPM, *Metarhizium anisopliae* & Emamectin benzoate |
| xiv. | Unit Size | : | 0.52 ha |
| xv. | No of Replications | : | 13 |
| xvi. | Unit Cost | : | Rs. 150 /- |
| xvii. | Total Cost | : | Rs. 1950 |
| xviii. | Monitoring Indicator | : | % of pest infestation, No of insect/plant & No of plant infested/sqr mt.<br>Yield (q/ha), Net return (Rs/ha), B:C ratio |
| xix. | Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify) | : | Plant protection Division, Krishi Bhawan, Ministry of Agriculture & farmers welfare Govt. of India<br>i. . |

**OFT-5**

| | | | |
|---|---|---|---|
| i. | Season | : | Kharif |
| ii. | Title of the OFT | : | Assessment of Intercropping model for mango orchard |
| iii. | Thematic Area | : | Intercropping in Mango orchard |
| iv. | Problem diagnosed | : | Low return due to sole mango plantation in initial years |
| v. | Important Cause | : | Unutilization of interspace in Mango orchard |
| vi. | Production system | : | Mango orchard |
| vii. | Micro farming system | : | Rainfed Upland |
| viii. | Technology for Testing | : | Interspace in Mango orchard |
| ix. | Existing Practice | : | Unutilization of interspace in Mango orchard |
| x. | Hypothesis | : | This trail have been tested in CHES, Bhubaneswar |
| xi. | Objective(s) | : | Utilization of Interspace in Mango orchard to get more profit. |
| xii. | Treatments | : | Farmers Practice (FP): Unutilization of interspace in Mango orchard<br>Technology option-I (TO-I): Intercropping of Cowpea var. Arka Garima<br>Cowpea var. Arka Garima Plants tall, vigorous, bushy, with small vines and photo insensitive. Leaf colour light green. Flower colour purple. Pods light green, long, thick, round, fleshy and string less. Suitable for vegetable purpose. Tolerant to heat, drought and low moisture stress. Duration 90 days. Pod Yield 18 t/ha<br>Technology option-II (TO-II): Intercropping of Okra Var. Arka Nikita<br>Okra var. Arka Nikita takes 39 days for the first flower appearance and 43 days for first picking of fruits. Produces dark green, medium, smooth and tender fruits. Excellent cooking quality, nutritionally rich in antioxidant activity, high mucilage content(1.08 % (FW) and high edible fiber content (8.85 % (DW) . Yields 21-24 t/ha in 125 -130 days duration. |
| xiii. | Critical Inputs | : | Vegetable seeds of Cowpea and Okra |
| xiv. | Unit Size | : | 0.52ha |

| | | | |
|---|---|---|---|
| xv. | No of Replications | : | 13 |
| xvi. | Unit Cost | : | 385/- |
| xvii. | Total Cost | : | 5000/- |
| xviii. | Monitoring Indicator | : | Fruit Wt (gm), Fruit size (Cm), Crop equivalent yield of mango Yield, Net income (Rs) BC ratio |
| xix. | Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify) | : | CHES, Bhubaneswar |

**OFT-6**

| | | | |
|---|---|---|---|
| i. | Season | : | Pre rabi |
| ii. | Title of the OFT | : | Assessment of different plant growth regulators for crop regulation in mango |
| iii. | Thematic Area | : | Crop management |
| iv. | Problem diagnosed | : | Alternate bearing in mango orchards |
| v. | Important Cause | : | Alternate bearing in mango orchards |
| vi. | Production system | : | Mango orchard |
| vii. | Micro farming system | : | Rainfed Upland |
| viii. | Technology for Testing | : | Application of paclobutrazol@ 0.25g a.i./$m^2$ canopy spread and Application of ethephon 5-8 sprays @ 200ppm fortnightly interval |
| ix. | Existing Practice | : | Fertilizer application (@ 110:80:110 gm NPK per plant per year )without any hormonal application |
| x. | Hypothesis | : | This trail has been tested in IIHR, Bangalore and Plant growth regulators, Directorate of Plant Protection Quarantine and Storage, GOI, MoAgril. |
| xi. | Objective(s) | : | Irregular bearer fruit plants come to regular. |
| xii. | Treatments | : | Farmers Practice (FP): Fertilizer application (@ 110:80:110 gm NPK per plant per year )without any hormonal application<br>Technology option-I (TO-I): Application of paclobutrazol@ 0.25g a.i./$m^2$ canopy spread Application of paclobutrazol (PBZ) at lower dose increased the flowering intensity in 6-12 year old mango trees without affecting vegetative growth. Soil application of PBZ through collar drench and ring method was effective.<br>Technology option-II (TO-II): Application of ethephon 5-8 sprays @ 200ppm fortnightly interval<br>Total 5 sprays of ethephon from Mid October and subsequent sprays in fortnightly interval will promote flowering |
| xiii. | Critical Inputs | : | Paclobutrazol and ethephon |
| xiv. | Unit Size | : | 0.52 ha |
| xv. | No of Replications | : | 07 |
| xvi. | Unit Cost | : | 6000/- |
| xvii. | Total Cost | : | 20000/- |
| xviii. | Monitoring Indicator | : | No. of fruits per panicle, No of fruits per plant, Fruit yield per plant, Yield, Net income (Rs) BC ratio |
| xix. | Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify) | : | IIHR, Annual Reports 2016-17 and Plant growth regulators, 2012, Directorate of Plant Protection Quarantine and Storage, GOI, Mo Agril. (Document source: agritech.tnau.ac.in/crop_protection/pdf/8_Approved_uses_registered_PGR.pdf |

**OFT-7**

| | | | |
|---|---|---|---|
| i. | Season | : | Rabi, 2019 -20 |
| ii. | Title of the OFT | : | Assessment of different Oil Cakes as Feed Supplement in Cross bred Cow |
| iii. | Thematic Area | : | Feed supplements |
| iv. | Problem diagnosed | : | High feed cost due to lack of alternate feed supplements. |
| v. | Important Cause | : | Low yield due to unavailability of low cost feed supplements |
| vi. | Production system | : | Dairy farming |
| vii. | Micro farming system | : | Semi intensive dairy farming |
| viii. | Technology for Testing | : | Different Oil Cakes as Feed Supplement in Cross bred Cow |
| ix. | Existing Practice | : | Feeding of cow with straw and concentrate feed |
| x. | Hypothesis | : | Different Oil Cakes as Feed Supplement in Cross bred Cow may result into higher milk yield. |
| xi. | Objective(s) | : | Higher milk yield in Cross bred Cow due to feed Supplement |

| | | | |
|---|---|---|---|
| xii. | Treatments | : | T $O_1$ - Feeding of cow with 1.5 kg of groundnut oil cake and 3.5 kg of concentrate feed with 1.5% calcium hydroxide during first 3 months of lactation to compensate negative energy balance and high mineral drain via milk\<br>T $O_2$ -Feeding of cow with 1.5 kg of cotton seed oil cake and 3.5 kg of concentrate feed with 1.5% calcium hydroxide during first 3 months of lactation to compensate for negative energy balance and high mineral drain via milk |
| xiii. | Critical Inputs | : | Groundnut oil cake, cotton seed oil cake, concentrate feed calcium hydroxide |
| xiv. | Unit Size | : | 0.52 ha |
| xv. | No of Replications | : | 07 |
| xvi. | Unit Cost | : | 2000/- |
| xvii. | Total Cost | : | 14000/- |
| xviii. | Monitoring Indicator | : | Milk Yield, SNF (%), Fat%,<br>Cost of intervention, B:C ratio |
| xix. | Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify) | : | SVVU, Tirupati 2015-16, TNAU Agritech Portal<br>CICR, Nagpur, Technical BulletinNo-25,<br>2003, validated by KVK, Yagantipalli, Andrapradesh, 2015-16 |

**OFT-8**

| | | | |
|---|---|---|---|
| i. | Season | : | Rabi, 2019 -20 |
| ii. | Title of the OFT | : | Assessment of multi-enzyme mixture and probiotics on growth of chickens in semi intensive system of rearing. |
| iii. | Thematic Area | : | Feed supplements |
| iv. | Problem diagnosed | : | Low FCR due to under utilization of fibres in feed. |
| v. | Important Cause | : | Low FCR due to improper rearing of chicks |
| vi. | Production system | : | Semi intensive |
| vii. | Micro farming system | : | Poulrty farming |
| viii. | Technology for Testing | : | multi-enzyme mixture and probiotics on growth of chickens in semi intensive system |
| ix. | Existing Practice | : | Feeding of chickens with only commercial broiler feed |
| x. | Hypothesis | : | There is scope of high FCR by application of multi-enzyme mixture and probiotics on growth of chickens |
| xi. | Objective(s) | : | High FCR due to application of multi-enzyme mixture and probiotics |
| xii. | Treatments | : | TO1: Feeding of back yard chicken with 30-60 gm of commercial broiler feed (added with probiotic mixture @ 0.05%) and free range feeding for improved gut health and nutrient utilization<br>TO2: Feeding of back yard chicken with 30-60 gm of commercial broiler feed (added with multi-enzyme mixture @ 0.05%) and free range feeding and free range feeding improved nutrient utilization. |
| xiii. | Critical Inputs | : | commercial broiler feed, multi-enzyme mixture probiotic mixture |
| xiv. | Unit Size | : | 0.52 ha |
| xv. | No of Replications | : | 07 |
| xvi. | Unit Cost | : | Rs.1000/- |
| xvii. | Total Cost | : | Rs.7000/- |
| xviii. | Monitoring Indicator | : | Body wt gain, FCR, egg laying capacity<br>Net return, B:C ratio |
| xix. | Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify) | : | CARI 2017-18<br>CARI 2015-16 |

**OFT-9**

| | | | |
|---|---|---|---|
| i. | Season | : | Rabi 2019-20 |
| ii. | Title of the OFT | : | Assessment of Suitable varieties for better market price of Cauliflower |
| iii. | Thematic Area | : | Varietal trial for better market price |
| iv. | Problem diagnosed | : | Low yield due to non- availability of suitable varieties at proper time |
| v. | Important Cause | : | Fetching lower price at market |
| vi. | Production system | : | Vegetables-vegetables |
| vii. | Micro farming system | : | irrigated upland |
| viii. | Technology for Testing | : | Suitable varieties of Cauliflower for better market price |
| ix. | Existing Practice | : | Farmers generally plant the seedling (Cauliflower) in the mid of October |
| x. | Hypothesis | : | Early produce will definitely fetch higher price in the market |
| xi. | Objective(s) | : | Higher return from vegetable crops |
| xii. | Treatments | : | Planting the seedling 15days prior or delayed to normal sowing with suitable hybrids<br>1. Planting of seedling (hybrid Suhasini)15 days before onset of normal planting period<br>2. Planting of seedling (hybrid Tetris)15 days after completion of normal planting period |
| xiii. | Critical Inputs | : | hybrid Suhasini & Tetris |
| xiv. | Unit Size | : | 0.52 ha |
| xv. | No of Replications | : | 07 |
| xvi. | Unit Cost | : | Rs. 500/- |
| xvii. | Total Cost | : | Rs.3500/- |
| xviii. | Monitoring Indicator | : | Fruit weight<br>Disease & pest incidence |
| xix. | Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify) | : | -- |

*Repeat the same format for EACH OFT being proposed.

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

| Sl. No. | Name of the project | Fund expected (Rs.) |
|---|---|---|
| 01. | NICRA | 14,00,000/- |
| 02. | Cluster Demonstration | 5,50,000/- |
| 03. | Skill training Programme (ASCI) | 4,50,000/- |
| | Total | 24,00,000/- |

**11.** No. of success stories proposed to be developed with their tentative titles- 02

**12. Scientific Advisory Committee**

| Date of SAC meeting held during 2018-19 | Proposed date during 2019-2020 |
|---|---|
| 05.09.2018 | 15.09.2019 |

**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 | 400 | 75 | 25 | 75 | 25 | 200 | 50 | 350 | 100 | 450 | 20 | 2000 |
| Water Samples | 50 | 10 | 5 | 10 | 5 | 15 | 5 | 35 | 15 | 50 | 15 | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Other (Please specify) | | | | | | | | | | | | |
| Total | 500 | 85 | 30 | 85 | 30 | 215 | 55 | 385 | 115 | 500 | 35 | 2000 |

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

| **Heads** | **Expenditure (last year) (Rs.) up to 31.03.2019** | **Expected fund requirement (Rs.)** |
|---|---|---|
| *Traveling allowances | 70,000/- | 1,20,000/- |
| *Stationary Telephone, Postage & other exp. On office running publication of newsletters<br>*POL, repair vehicles, tractor & equipments | 4,00,000/- | 4,70,000/- |
| *Training of farmers (Meals, Refreshment for trainees)<br>*Training materials (need based materials and equipment for conducting the training<br>*Training Rural Youth | 3,00,000/- | 3,20,000/- |
| *Frontline Demonstration | 2,00,000/- | 2,20,000/- |
| *On farm testing (on need based location specific and newly generated information of the major production system of the area) | 1,00,000/- | 1,00,000/- |
| *SCSP | 1,00,000 | 1,00,000/- |
| **Total** | **11,70,000/-** | **13,30,000/-** |

* Any additional requirement may be suitably justified.

**15.** 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