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

1. Name of the KVK: Krishi Vigyan Kendra (ICAR-RCER, Patna), Buxar, Bihar

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| Krishi Vigyan Kendra, Lalganj, Buxar-802103 | 9431069463 | buxarkvk@gmail.com |

1. **Name of host organization** :

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| --- | --- | --- | --- |
| Address | Telephone | | E mail |
| Office | FAX |  |
| ICAR-Research Complex for Eastern Region, Patna- 800014 | 0612-2223962 | 0612-2223956 | directoricarrcer2@gmail.com |

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

1. **Farmers and farmwomen**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **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** |
| **Agronomy** | | | | | | | | | | | | | | | | | | | | |
| Nursery management | Community Rice Nursery Production | 1 | 2 | | off | 13-14/05/2019 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Integrated crop management | Integrated crop management in pigeon pea | 1 | 2 | | off | 16-17/05/2019 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| crop production | Best management practices for Rice production | 1 | 2 | | Off | 03-04/06/2019 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Crop production | Scientific cultivation of pearl millet, Finger millet and Kodo | 1 | 2 | | Off | 17-18/06/2019 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Weed & Nutrient management | Integrated Weed and nutrient management for maize production | 1 | 2 | | Off | 08-09/07/2019 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| crop production | Scientific cultivation of rapeseed and mustard | 1 | 2 | | Off | 10-11/09/2019 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| crop production | Best management practices for chickpea and lentil production. | 1 | 2 | | Off | 25-26/09/2019 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| crop production | Scientific cultivation of potato | 1 | 2 | | Off | 14-15/10/2019 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Integrated crop management | Integrated production management of wheat | 1 | 2 | | Off | 28-29/10/2019 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Weed & Nutrient management | Integrated Weed management and liquid foliar spray of micro nutrients (MO&B) in Chick pea & Lentil | 1 | 2 | | Off | 05-06/11/2019 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Resource Conservation Technique | RCT in Rice- Wheat cropping System | 1 | 2 | | Off | 12-13/08/2019 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Crop Diversification | Crop diversification for doubling farmers income | 1 | 2 | | Off | 20-21/08/2019 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Integrated Farming System | Integrated Farming System techniques for doubling farmers income | 1 | 2 | | Off | 18-19/11/2019 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Water & Nutrient Management | Water & Integrated Nutrient management techniques in Wheat | 1 | 2 | | Off | 03-04/12/2019 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Integrated crop management | Linseed production for better health | 1 | 2 | | Off | 28-29/11/2019 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Climate change | Risk management practices to combat the climate change in crops | 1 | 2 | | Off | 29-30/05/2019 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Climate change | Annual Contingent crop planning | 1 | 2 | | off | 25-26/06/2019 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Agricultural mechanization | Advancing wheat sowing by using Zero tillage | 1 | 2 | | off | 04-05/11/2019 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Agricultural mechanization | Happy seeder use in wheat crop | 1 | 2 | | On | 14-15/11/2019 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Organic farming | Organic farming for sustain production sustainability | 1 | 2 | | Off | 16-17/12/2019 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Water management | Use micro irrigation in crop production | 1 | 2 | | On | 10-11/02/2020 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Nutrient Management | Techniques for micro nutrient applications in pulses and Oilseed Crops. | 1 | 2 | | On | 17-18/02/2020 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Integrated farming system | Integrated farming system for small & marginal farmers | 1 | 2 | | On | 02-03/03/2020 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Crop intensification | Summer moong cultivation for crop intensification in rice-wheat cropping system | 1 | 2 | | Off | 19-20/03/2020 | 4 | | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| **Total (Agronomy)** | | **24** | **48** | |  |  | **96** | | **24** | **-** | | **-** | | **432** | **48** | **528** | | **72** | | **600** |
| **Soil Science** | | | | | | | | | | | | | | | | | | | | |
| Soil fertility management | In-situ crop residue management for sustainable soil health. | 1 | 2 | Off | | 24-25/05/2019 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| Soil and water management/conservation. | Method of in-situ moisture conservation measures. | 1 | 2 | Off | | 03-04/06/2019 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| Soil and water Conservation. | Method of soil and water conservation. | 1 | 2 | Off | | 06-07/06/2019 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| Soil and water testing. | Scientific method of soil and water sample collection. | 1 | 2 | Off | | 11-12/06/2019 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| Soil and water conservation | Rain water harvesting methods for multifarious use of water. | 1 | 2 | Off | | 15-16/06/2019 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| Nutrient use efficiency. | Application technologies of bio-fertilizer (Rhizobium, PSB, BGA, Azatobactor) in crops, rice, chickpea , lentil and wheat and its role. | 1 | 2 | Off | | 25-26/06/2019 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| Production of organic inputs | Application of waste decomposer for composting of farm waste. | 1 | 2 | Off | | 02-  03/07/2019 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| Integrated Nutrient Management. | Integrated Nutrient Management in rice. | 1 | 2 | Off | | 04-05/07/2019 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| Nutrient use efficiency | Nitrogen management in paddy crop by the Leaf colour chart (LCC). | 1 | 2 | Off | | 09-10/07/2019 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| Integrated nutrient management. | Integrated nutrient management technologies in potato. | 1 | 2 | Off | | 08-09/08/2019 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| Nutrient use efficiency | Application of sulphur in pulses and oilseed. | 1 | 2 | Off | | 21- 22/08/2019 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| Integrated Nutrient management. | Integrated Nutrient Management in cauliflower | 1 | 2 | Off | | 05-06/09/2019 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| Integrated Nutrient management. | Integrated Nutrient Management in Wheat. | 1 | 2 | Off | | 19-20/09/2019 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| Production of organic inputs | Production of organic products (vermin compost, vermiwash , Punchgavya and Amrit pani) | 1 | 2 | Off | | 04-05/10/2019 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| Nutrient use efficiency | Foliar application of liquid NPK and micro-nutrients in pulses. | 1 | 2 | Off | | 17- 18/10/2019 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| Micro nutrients deficiency | Method of foliar application of liquid NPK and micro- nutrients in fruits plant. | 1 | 2 | Off | | 05-06/11/2019 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| Soil and Water conservation. | Method of fertigation through micro irrigation system in horticultural crops. . | 1 | 2 | Off | | 15-16/11/2019 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| Soil and Water conservation. | Water management during critical period in Rabi Pulses. | 1 | 2 | Off | | 03-04/12/2019 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| Integrated nutrient management | Integrated Nutrient Management in onion. | 1 | 2 | Off | | 10-11/12/2019 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| Soil and water Conservation. | Method of Water management in spring / summer vegetable. | 1 | 2 | Off | | 03- 04/01/2020 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| Production of organic inputs | Production technologies of organic inputs Vermi compost and Vermi wash. | 1 | 2 | Off | | 09-10/01/2020 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| Soil and Water conservation. | Method of in- situ Crop residue management to check crop residue burning. | 1 | 2 | Off | | 05-06/02/2020 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| Production of organic inputs | Promotion of organic farming. | 1 | 2 | Off | | 13-14/02/2020 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| Integrated Nutrient management. | Integrated nutrient management in *Japani pudina* . | 1 | 2 | Off | | 12-13/03/2020 | | 3 | 2 | - | - | | 16 | | 4 | 19 | 6 | | 25 | |
| **Total (Soil Science)** | | **24** | **48** | **-** | | **-** | | **72** | **48** | **-** | **-** | | **384** | | **96** | **456** | **144** | | **600** | |

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| **Plant Breeding** | | | | | | | | | | | | | | | | | | | | | |
| Nursery management | Paddy: Nursery Management | 1 | | 2 | On | | 22-23/05/2019 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Seed Production | Urdbean: Quality seed production | 1 | | 2 | On | | 28-29/05/2019 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Seed Production | Wheat: Quality Seed production | 1 | | 2 | On | | 03-04/06/2019 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Seed Production | Mustard: Quality Seed production | 1 | | 2 | On | | 10-11/06/2019 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Weed Management | Weed Management in Paddy | 1 | | 2 | Off | | 03-04/07/2019 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Seed Production | Paddy Quality Seed Production | 1 | | 2 | Off | | 29-30/07/2019 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Seed Production | Maize Quality Seed Production techniques of | 1 | | 2 | Off | | 12-13/08/2019 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Seed Production | Pigeon Pea Quality Seed production of | 1 | | 2 | Off | | 19-20/08/2019 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Seed Production | Okra Quality seed production | 1 | | 2 | Off | | 03-04/09/2019 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Seed Production | Bajra Quality Seed production | 1 | | 2 | Off | | 23-24/09/2019 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Seed Production | Quality seed production of Millet crop | 1 | | 2 | Off | | 25-26/09/2019 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Seed Production | Wheat Quality Seed production techniques | 1 | | 2 | Off | | 09-10/10/2019 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Seed Production | Quality seed production of Onion | 1 | | 2 | Off | | 13-14/10/2019 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Seed Production | Quality seed production of Brinjal | 1 | | 2 | Off | | 18-19/10/2019 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Seed Production | fodder crop (Oats and Berseem) Quality Seed production techniques | 1 | | 2 | Off | | 21-22/10/2019 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Seed Production | Potato Quality Seed production | 1 | | 2 | Off | | 23-24/10/2019 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Seed Production | Lentil and ChickPea Quality Seed production | 1 | | 2 | On | | 15-16/11/2019 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Seed Production | Quality seed production of Field pea | 1 | | 2 | Off | | 18-19/11/2019 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Seed Production | Lentil Quality Seed production | 1 | | 2 | Off | | 11-12/12/2019 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Seed Production | Greengram Quality seed production | 1 | | 2 | Off | | 14-15/01/2020 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Seed Production | Chickpea Quality seed production | 1 | | 2 | Off | | 11-12/02/2020 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Seed Production | Quality seed production of Okra | 1 | | 2 | Off | | 20-21/02/2019 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Seed Production | Urdbean: Quality seed production | 1 | | 2 | Off | | 20-21/03/2020 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| Seed Production | Quality seed production of Tomato | 1 | | 2 | Off | | 22-23/03/2020 | | 4 | 1 | - | | - | | 18 | 2 | 22 | | 3 | | 25 |
| **Total (Plant Breeding)** | | **24** | | **48** | **-** | | **-** | | **96** | **24** | **-** | | **-** | | **432** | **48** | **528** | | **72** | | **600** |
| **Plant Protection** | | | | | | | | | | | | | | | | | | | | | |
| Storage loss minimizing technique | Identification, nature of damage and control measure of storage insects and pests | | 1 | 2 | | Off | 23-24/05/2019 | 5 | | - | | - | - | 17 | | 3 | 22 | 3 | | 25 | |
| Integrated Disease Management | Soil borne diseases, their symptoms and Management through summer ploughing & soil Solarization | | 1 | 2 | | Off | 25-26/05/2019 | 5 | | - | | - | - | 17 | | 3 | 22 | 3 | | 25 | |
| Integrated Pest Management | Insects and disease of summer vegetables and their management | | 1 | 2 | | Off | 28-29/05/2019 | 5 | | - | | - | - | 17 | | 3 | 22 | 3 | | 25 | |
| Integrated Pest Management | Application Method and precaution during uses of Chemical pesticides | | 1 | 2 | | Off | 11.06.19 | 5 | | - | | - | - | 17 | | 3 | 22 | 3 | | 25 | |
| Integrated Pest Management | Insects and diseases of rice nursery and control measures. | | 1 | 2 | | Off | 20-21/06/2019 | 5 | | - | | - | - | 17 | | 3 | 22 | 3 | | 25 | |
| Integrated Disease management | Integrated disease management In rice | | 1 | 2 | | Off | 27-28/06/2019 | 5 | | - | | - | - | 17 | | 3 | 22 | 3 | | 25 | |
| Integrated disease management | Disease caused by nutritional deficiencies and their management | | 1 | 2 | | Off | 10-11/07/2019 | 5 | | - | | - | - | 17 | | 3 | 22 | 3 | | 25 | |
| Integrated Pest Management | Seed borne diseases of cereals and pulses and their management | | 1 | 2 | | Off | 23-24/07/2019 | 5 | | - | | - | - | 17 | | 3 | 22 | 3 | | 25 | |
| Integrated Pest Management | Insect and Disease management in oil seed crop | | 1 | 2 | | Off | 30-31/07/2019 | 5 | | - | | - | - | 17 | | 3 | 22 | 3 | | 25 | |
| Integrated pest Management | Ecofriendly management of pulses | | 1 | 2 | | Off | 16-17/08/2019 | 5 | | - | | - | - | 17 | | 3 | 22 | 3 | | 25 | |
| Integrated pest Management | Damage caused by mammals and their management | | 1 | 2 | | Off | 20-21/08/2019 | 5 | | - | | - | - | 17 | | 3 | 22 | 3 | | 25 | |
| Integrated insect pest management | Insects and pests of orchard and their management | | 1 | 4 | | ON | 05-06/09/2019 | 5 | | - | | - | - | 17 | | 3 | 22 | 3 | | 25 | |
| Bio-control of pest and diseases | Application of Microbial pesticide for the management of insect pest | | 1 | 2 | | Off | 17-18/09/2019 | 5 | | - | | - | - | 17 | | 3 | 22 | 3 | | 25 | |
| Production of bio control agents and bio pesticides (Bacteria, virus, fungi etc) | Conservation of Natural enemies in rice ecosystem | | 1 | 2 | | Off | 24-25/09/2019 | 5 | | - | | - | - | 17 | | 3 | 22 | 3 | | 25 | |
| Application of bio control agents and bio pesticides (Bacteria, virus, fungi etc) | Production techniques of biocontrol agents | | 1 | 2 | | Off | 07-08/10/2019 | 5 | | - | | - | - | 17 | | 3 | 22 | 3 | | 25 | |
| Bio-control of pest & disease | Identification and conservation of predators and parasitoids in agri ecosystem | | 1 | 2 | | ON | 16-17/10/2019 | 5 | | - | | - | - | 17 | | 3 | 22 | 3 | | 25 | |
| Integrated Pest management | diseases of crops caused by Abiotic factors and their management | | 1 | 2 | | Off | 24-25/10/2019 | 5 | | - | | - | - | 17 | | 3 | 22 | 3 | | 25 | |
| Storage loss minimization technique | Storage pest of Pulses and their control measure | | 1 | 2 | | Off | 14-15/11/2019 | 5 | | - | | - | - | 17 | | 3 | 22 | 3 | | 25 | |
| Integrated disease management | Early and Late blight disease of tomato and potato and their management | | 1 | 2 | | Off | 18-19/12/2019 | 5 | | - | | - | - | 17 | | 3 | 22 | 3 | | 25 | |
| Bio control Agent | Identification and utilization of bio-control agent in rabi season (Rai, mustard, cabbage, cauliflower, lentil, gram etc) | | 1 | 2 | | Off | 13-14/02/2020 | 5 | | - | | - | - | 17 | | 3 | 22 | 3 | | 25 | |
| Integrated Pest Management | Insect and disease management in onion crop | | 1 | 2 | | Off | 12-13/03/2020 | 5 | | - | | - | - | 17 | | 3 | 22 | 3 | | 25 | |
| **Total (Plant Protection)** | | | **21** | **44** | |  |  | **105** | | **-** | | **-** | **-** | **357** | | **63** | **462** | **63** | | **525** | |
| **GRAND TOTAL** | | | **86** | **174** | | **-** | **-** | **341** | | **89** | | **-** | **-** | **1479** | | **241** | **1820** | **330** | | **2150** | |

1. **Rural youths**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **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** |
| **Agronomy** | | | | | | | | | | | | | | | | | | | | | |
| Crop diversification | Doubling farmers income through production of High value crops | | 1 | | | 5 | | ON | | | 01-05/07/2019 | | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |
| Integrated Farming System | Doubling farmers income through Integrated farming system | | 1 | | | 5 | | ON | | | 05-09/08/2019 | | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |
| Organic farming | Organic farming for sustainable production | | 1 | | | 5 | | ON | | | 02-06/09/2019 | | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |
| Crop diversification | Doubling farmers income through production of High value crops | | 1 | | | 5 | | OFF | | | 07-11/10/2019 | | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |
| Integrated Farming System | Doubling farmers income through Integrated farming system | | 1 | | | 5 | | OFF | | | 09-13/12/2019 | | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |
| Organic farming | Organic farming for sustainable production | | 1 | | | 5 | | OFF | | | 02-06/03/2020 | | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |
| **Total (Agronomy)** | | | **6** | | | **30** | | **-** | | | **-** | | **24** | **6** | **-** | **-** | **108** | **12** | **132** | **18** | **150** |
| **Soil Science** | | | | | | | | | | | | | | | | | | | | | |
| Production of organic inputs | Production technologies of organic inputs vermicompost, Panchgavay, and vermi wash | | 1 | | | 5 | | ON | | | 18-23/06/2019 | | 3 | 2 | - | - | 16 | 4 | 19 | 6 | 25 |
| Production of organic inputs | Production technology of Bio product viz vermin wash, Punchgavya, and Amritpani by using of waste decomposer and cow dung. | | 1 | | | 5 | | ON | | | 14-18/07/2019 | | 3 | 2 | - | - | 16 | 4 | 19 | 6 | 25 |
| Soil and water testing. | Method of Soil testing through mini soil testing kit and Soil test Fertilizer recommendation. | | 1 | | | 5 | | ON | | | 19-23/10/2019 | | 3 | 2 | - | - | 16 | 4 | 19 | 6 | 25 |
| Production of organic inputs | Production technology of *Azolla* and its use . | | 1 | | | 5 | | ON | | | 19-  3/11/2019 | | 3 | 2 | - | - | 16 | 4 | 19 | 6 | 25 |
| Soil and water testing. | Method of Soil testing through mini soil testing kit and Soil test Fertilizer recommendation. | | 1 | | | 5 | | ON | | | 15-21/12/2019 | | 3 | 2 | - | - | 16 | 4 | 19 | 6 | 25 |
| Soil fertility management | In-situ crop residue management for sustainable soil health. | | 1 | | | 5 | | ON | | | 18-22/02/2020 | | 3 | 2 | - | - | 16 | 4 | 19 | 6 | 25 |
| **Total (Soil Science)** | | | **6** | | | **30** | | **-** | | |  | | **18** | **12** | **-** | **-** | **96** | **24** | **114** | **36** | **150** |
| **Plant Breeding** | | | | | | | | | | | | | | | | | | | | | |
| Seed Production | Quality seed Production of Pigeon Pea | | | 1 | | | 5 | | OFF | | | 10-14/06/2019 | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |
| Seed Production | Quality Seed Production of Tomato | | | 1 | | | 5 | | ON | | | 08-12/07/2019 | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |
| Seed Production | Quality Seed Production of Maize (Popcorn) | | | 1 | | | 5 | | OFF | | | 22-26/07/2019 | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |
| Seed Production | Quality Seed Production of Chick Pea and Lentil | | | 1 | | | 5 | | OFF | | | 14-18/10/2019 | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |
| Seed Production | Quality seed production of vegetable Pea | | | 1 | | | 5 | | ON | | | 04-08/11/2019 | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |
| **Total (Plant Breeding)** | | | | **5** | | | **25** | | **-** | | | **-** | **20** | **5** | **-** | **-** | **90** | **10** | **110** | **15** | **125** |
| **Plant Protection** | | | | | | | | | | | | | | | | | | | | | |
| Mushroom production | Mushroom production: A source of income generation | | | 2 | | | 5 | | | ON | | 15-19/10/2019 | 4 | - | - | - | 16 | - | 20 | - | 20 |
| 5 | | | ON | | 04-09/11/2019 | 4 | - | - | - | 16 | - | 20 | - | 20 |
| Beekeeping | | Bee keeping: A viable source of income generation to rural youth | | | 2 | | 5 | | | ON | | 14-18/01/2020 | 4 | - | - | - | 16 | - | 20 | - | 20 |
| 5 | | | ON | | 21-25/01/2020 | 4 | - | - | - | 16 | - | 20 | - | 20 |
| **Total (Plant Protection)** | | | | | **4** | | **20** | | | **-** | | **-** | **16** | **-** | **-** | **-** | **64** | **-** | **80** | **-** | **80** |
| **Grand Total** | | | | | **21** | | **105** | | |  | |  | **78** | **23** | **-** | **-** | **358** | **46** | **436** | **69** | **505** |

1. **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** |
| **Agronomy** | | | | | | | | | | | | | | | |
| Integrated farming systems | Integrated farming system modules | | 1 | 2 | ON | 11-12/07/2019 | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |
| Organic farming | Organic farming | | 1 | 2 | ON | 19-20/08/2019 | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |
| Crop production | Productivity enhancement in field crops | | 1 | 2 | ON | 16-17/10/2019 | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |
| Crop intensification | Crop intensification for doubling farmers income | | 1 | 2 | ON | 10-11/02/2020 | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |
| **Total (Agronomy)** | | | **4** | **8** | **-** | **-** | **16** | **4** | **-** | **-** | **72** | **8** | **88** | **12** | **100** |
| **Soil Science** | | | | | | | | | | | | | | | |
| Soil fertility management | Method of in- situ Crop residue management to check burning. | 1 | | 3 | ON | 23-25.07.2019 | 5 | - | - | - | 17 | 3 | 22 | 3 | 25 |
| Soil and water management/conservation. | Rain water harvesting methods for multifarious use of water. | 1 | | 3 | ON | 21-23.01.2020 | 5 | - | - | - | 17 | 3 | 22 | 3 | 25 |
| Soil and water testing. | Method of Soil testing through mini soil testing kit and Fertilizer recommendation. | 1 | | 3 | ON | 24-26.12.2019 | 5 | - | - | - | 17 | 3 | 22 | 3 | 25 |
| Production of organic inputs | Production technologies of organic inputs (vermin compost, Panchgavay, and vermi wash) | 1 | | 3 | ON | 25-27.02.2020 | 5 | - | - | - | 17 | 3 | 22 | 3 | 25 |
| **Total (Soil Science)** | | **4** | | **12** | **-** | **-** | **20** | **-** | **-** | **-** | **68** | **12** | **88** | **12** | **100** |
| **Plant Breeding** | | | | | | | | | | | | | | | |
| Seed Production | Seed Production technique of Paddy | 1 | | 2 | ON | 06-07/08/2019 | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |
| Seed Production | Quality seed production of Kharif pulses | 1 | | 2 | ON | 29-30/08/2019 | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |
| Seed Production | Quality seed production of rabi pulses | 1 | | 2 | ON | 29-30/11/2019 | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |
| Seed Production | Quality seed production of wheat | 1 | | 2 | ON | 03-04/12/2019 | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |
| **Total (Plant Breeding)** | | **4** | | **8** | **-** | **-** | **16** | **4** | **-** | **-** | **72** | **8** | **88** | **12** | **100** |
| **Plant Protection** | | | | | | | | | | | | | | | |
| IPM | IPM: principles and practices | 2 | | 3 | ON | 25-27/05/2019 | 5 | - | - | - | 20 | - | 25 | - | 25 |
| 3 | ON | 13-14/06/2019 | 5 | - | - | - | 20 |  | 25 | - | 25 |
| Bio control of pest and diseases | Biological control: The need perspective in present scenario | 2 | | 3 | ON | 02-04/01/2020 | 5 | - | - | - | 20 | - | 25 | - | 25 |
| 3 | ON | 16-18/01/2020 | 5 | - | - | - | 20 | - | 25 | - | 25 |
| **Total (Plant Protection)** | | **4** | | **12** | **-** | **-** | **20** | **-** | **-** | **-** | **80** | **-** | **100** | **-** | **100** |
| **GRAND TOTAL** | | **16** | | **40** | **-** | **-** | **72** | **8** | **-** | **-** | **292** | **28** | **364** | **36** | **400** |

**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 | 3 | 54 | 6 | 60 | 12 | 3 | 15 | - | - | - | 66 | 9 | 75 |
| Resource Conservation Technologies | 1 | 18 | 2 | 20 | 4 | 1 | 5 | - | - | - | 22 | 3 | 25 |
| Cropping Systems | 1 | 18 | 2 | 20 | 4 | 1 | 5 | - | - | - | 22 | 3 | 25 |
| Crop Diversification | 1 | 18 | 2 | 20 | 4 | 1 | 5 | - | - | - | 22 | 3 | 25 |
| Integrated Farming | 2 | 36 | 4 | 40 | 8 | 2 | 10 | - | - | - | 44 | 6 | 50 |
| Water management | 2 | 36 | 4 | 40 | 8 | 2 | 10 | - | - | - | 44 | 6 | 50 |
| Seed production | 22 | 396 | 44 | 440 | 88 | 22 | 110 | - | - | - | 484 | 66 | 550 |
| Nursery management | 2 | 36 | 4 | 40 | 8 | 2 | 10 | - | - | - | 44 | 6 | 50 |
| Integrated Crop Management | 3 | 54 | 6 | 60 | 12 | 3 | 15 | - | - | - | 66 | 9 | 75 |
| Fodder production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production of organic inputs | 1 | 18 | 2 | 20 | 4 | 1 | 5 | - | - | - | 22 | 3 | 25 |
| Others, (cultivation of crops )  Crop Production | 5 | 90 | 10 | 100 | 20 | 5 | 25 | - | - | - | 110 | 15 | 125 |
| Nutrient Management | 1 | 18 | 2 | 20 | 4 | 1 | 5 | - | - | - | 22 | 3 | 25 |
| Climate Change | 2 | 36 | 4 | 40 | 8 | 2 | 10 | - | - | - | 44 | 6 | 50 |
| Agriculture Mechanization | 2 | 36 | 4 | 40 | 8 | 2 | 10 | - | - | - | 44 | 6 | 50 |
| **III. Soil Health and Fertility Management** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Soil fertility management | 1 | 16 | 4 | 20 | 3 | 2 | 5 | - | - | - | 19 | 6 | 25 |
| Soil and Water Conservation | 7 | 112 | 28 | 140 | 21 | 14 | 35 | - | - | - | 133 | 42 | 175 |
| Integrated Nutrient Management | 6 | 96 | 24 | 120 | 18 | 12 | 30 | - | - | - | 114 | 36 | 150 |
| Production and use of organic inputs | 4 | 64 | 16 | 80 | 12 | 8 | 20 | - | - | - | 76 | 24 | 100 |
| Micro nutrient deficiency in crops | 1 | 16 | 4 | 20 | 3 | 2 | 5 | - | - | - | 19 | 6 | 25 |
| Nutrient Use Efficiency | 4 | 64 | 16 | 80 | 12 | 8 | 20 | - | - | - | 76 | 24 | 100 |
| Soil and Water Testing | 1 | 16 | 4 | 20 | 3 | 2 | 5 | - | - | - | 19 | 6 | 25 |
| **VII. Plant Protection** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated Pest Management | 10 | 170 | 30 | 200 | 50 | - | 50 | - | - | - | 220 | 30 | 250 |
| Integrated Disease Management | 4 | 68 | 12 | 80 | 20 | - | 20 | - | - | - | 88 | 12 | 100 |
| Bio-control of pests and diseases | 2 | 34 | 6 | 40 | 10 | - | 10 | - | - | - | 44 | 6 | 50 |
| Production of bio control agents and bio pesticides | 3 | 51 | 9 | 60 | 15 | - | 15 | - | - | - | 66 | 9 | 75 |
| Others, if any  Storage loss minimizing technique | 2 | 34 | 6 | 40 | 10 | - | 10 | - | - | - | 44 | 6 | 50 |
| **TOTAL** | 93 | 1605 | 255 | 1860 | 369 | 96 | 465 |  |  |  | 1974 | 351 | 2325 |

**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 | 16 | - | 16 | 4 | - | 4 | - | - | - | 20 | | - | 20 |
| Bee-keeping | 2 | 16 | - | 16 | 4 | - | 4 | - | - | - | 20 | | - | 20 |
| Integrated farming | 2 | 36 | 4 | 40 | 8 | 2 | 10 | - | - | - | 44 | | 6 | 50 |
| Seed production | 5 | 90 | 10 | 100 | 20 | 5 | 25 | - | - | - | 110 | | 15 | 125 |
| Organic Farming | 2 | 36 | 4 | 40 | 8 | 2 | 10 | - | - | - | 44 | | 6 | 50 |
| Production of organic inputs | 3 | 48 | 12 | 60 | 9 | 6 | 15 | - | - | - | 57 | | 18 | 75 |
| Bio control Agent | 2 | 16 | - | 16 | 4 | - | 4 | - | - | - | 20 | | - | 20 |
| Crop diversification | 2 | 36 | 4 | 40 | 8 | 2 | 10 | - | - | - | 44 | | 6 | 50 |
| Soil & water testing | 2 | 32 | 8 | 40 | 6 | 4 | 10 | - | - | - | 38 | | 12 | 50 |
| Soil fertility management | 1 | 16 | 4 | 20 | 3 | 2 | 5 | - | - | - | 19 | | 6 | 25 |
| TOTAL | 23 | 342 | 46 | 388 | 74 | 23 | 97 |  |  |  | 416 | | 69 | 485 |

**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** |
| Integrated Pest Management | 2 | 40 | - | 40 | 10 | - | 10 | - | - | - | 50 | | - | 50 |
| Production and use of organic inputs | 2 | 35 | 5 | 40 | 9 | 1 | 10 | - | - | - | 44 | | 6 | 50 |
| Crop intensification | 1 | 18 | 2 | 20 | 4 | 1 | 5 | - | - | - | 22 | | 3 | 25 |
| Bio control of pest and diseases | 2 | 40 | - | 40 | 10 | - | 10 | - | - | - | 50 | | - | 50 |
| Integrated farming systems | 1 | 18 | 2 | 20 | 4 | 1 | 5 | - | - | - | 22 | | 3 | 25 |
| Crop production | 1 | 18 | 2 | 20 | 4 | 1 | 5 | - | - | - | 22 | | 3 | 25 |
| Soil fertility management | 1 | 17 | 3 | 20 | 5 | - | 5 | - | - | - | 22 | | 3 | 25 |
| Soil and water management/ Conservation | 1 | 17 | 3 | 20 | 5 | - | 5 | - | - | - | 22 | | 3 | 25 |
| Soil and water testing | 1 | 17 | 3 | 20 | 5 | - | 5 | - | - | - | 22 | | 3 | 25 |
| Seed Production | 4 | 72 | 8 | 80 | 16 | 4 | 20 | - | - | - | 88 | | 12 | 100 |
| TOTAL | **16** | **292** | **28** | **320** | **72** | **8** | **80** |  |  |  | **364** | | **36** | **400** |

**Skill Development Training Programme**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Thematic area** | **Topic** | **Duration** | **On/off** | **Duration**  **(hrs)** | **No of participants** | | | | | | | | | **Grand total** | | |
| **Others** | | | **SC** | | | **ST** | | |
| **M** | **F** | **T** | **M** | **F** | **T** | **M** | **F** | **T** | **M** | **F** | **T** |
| Organic farming | Organic growers | 02/01/2019 to 05/02/2019 | ON | 200 | 15 | 2 | 17 | 3 | - | 3 | - | - | - | 18 | 2 | 20 |
| Beekeeping | Bee Keepers | 26/01/2020 to 10/03/2020 | ON | 200 | 15 | 2 | 17 | 3 | - | 3 | - | - | - | 18 | 2 | 20 |
| Mushroom Production | Mushroom Grower | 10/11/2019 to 20/12/2019 | ON | 200 | 15 | 2 | 17 | 3 | - | 3 | - | - | - | 18 | 2 | 20 |

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

**Crop** : Rice

**Thrust Area** : Improved variety production

**Thematic Area** : Crop production

**Season** : Kharif

**Farming Situation** : Rice-wheat

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | Rice var. Rajendra kasturi/ CR Dhan 909 | 10 | Seed, seed treatment, foliar spray | No of panicles/m2, grains/panicle, 1000 grain weight, grain yield | Seed & fungicides | 20000 | - | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |
| **Total** | | **10** | **-** | **-** | **-** | 20000 | **-** | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |

**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 | BMP for rice production | 2 | Farmers | 1 | 1 on and 1 off | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |
| Field day | Field day on rice | 3 | Farmers and extension workers | 1 | Off | 30 | 15 | - | - | 225 | 30 | 255 | 45 | 300 |
| **Total** | | **5** |  | **-** | **04 Off + 01 On** | **34** | **16** | **-** | **-** | **243** | **32** | **277** | **48** | **325** |

**Crop** : Wheat

**Thrust Area** : Improved variety production

**Thematic Area** : Crop production

**Season** : Rrabi

**Farming Situation** : Rice-wheat

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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. | Wheat var HD 2967 under ZT | 10 | Seed, seed treatment, post emergence herbicide  (Carfentrazone+Sulfosulfuron) | No of panicles/m2, grains/panicle, 1000 grain weight, grain yield,  Weed density and weed dry weight | Seed, fungicide, herbicide | 48000 | - | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |
| 2. | Wheat var HD 3086 under ZT | 5 | Seed, seed treatment, post emergence herbicide  (Carfentrazone+Sulfosulfuron) | No of panicles/m2, grains/panicle, 1000 grain weight, grain yield,  Weed density and weed dry weight | Seed, fungicide, herbicide | 25000 | - | 2 | 1 | - | - | 6 | 1 | 8 | 2 | 10 |
| **Total** | | **15** | **-** | **-** | **-** | **73000** | **-** | **6** | **2** | **-** | **-** | **24** | **3** | **30** | **5** | **35** |

**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 | BMP for wheat production | 2 | Farmers | 1 | 1 on and 1 off | 4 | 1 | - | - | 18 | 2 | 22 | 3 | 25 |
| Field day | Field day on wheat | 3 | Farmers and extension workers | 1 | Off | 30 | 15 | - | - | 225 | 30 | 255 | 45 | 300 |
| **Total** | | **5** | **-** | **-** | **1 On +**  **4 Off** | **34** | **16** | **-** | **-** | **243** | **32** | **277** | **48** | **325** |

**Crop** : Waste D-composer

**Thrust Area** : In-situ composting of crop residue

**Thematic Area** : Organic Farming

**Season** : Kharif & Rabi

**Farming Situation** : Rice-Wheat/Vegetable

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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. | Waste D- composer | 1000  Nos. | Composting, Seed treatment | Composting, Seed treatment, folior spray | Waste D-composer | 15000 | - | 100 | 100 | - | - | 700 | 100 | 800 | 200 | 1000 |
| **Total** | | **1000** | **-** | **-** | **-** | **15000** | **-** | 100 | 100 | - | - | 700 | 100 | 800 | 200 | 1000 |

**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 | Application of waste decomposer for composting of farm waste. | 1 | Farmers | 2 | 1 off | 3 | 2 | - | - | 16 | 4 | 19 | 6 | 25 |
| Field day | Field day on paddy/ wheat/ vegetable | 2 | Farmers and extension workers | 1 | Off | 30 | 15 | - | - | 225 | 30 | 255 | 45 | 300 |
| **Total** | | **3** | **-** | **-** | **3 Off** | **33** | **17** | **-** | **-** | **241** | **34** | **244** | **51** | **325** |

**Cluster Front Line Demonstration**

**Crop** : Chickpea

**Thrust Area** : Demonstration of Improved variety

**Thematic Area** : Crop production

**Season** : Rabi

**Farming Situation** : Rice-chickpea

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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. | Chickpea | 40 | Seed, seed treatment, IPM (FIR, Pheromantrap) and foliar spray of micronutrinet | No of pods/plant, branches/plant, 100 grain weight, grain yield, | Seed, fungicides, Rhizobium, micronutrient, Bio insecticide | 360000 | - | 16 | 4 | - | - | 72 | 8 | 88 | 12 | 100 |
| **Total** | | **40** | **-** | **-** | **-** | **360000** | **-** | **16** | **4** | **-** | **-** | **72** | **8** | **88** | **12** | **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 | BMP for chickpea production | 2 | Farmers | 1 | 1 on and 1 off | 16 | 4 | - | - | 72 | 8 | 88 | 12 | 100 |
| Field day | Field day on chickpea | 4 | Farmers and extension workers | 1 | Off | 40 | 20 | - | - | 300 | 40 | 340 | 60 | 400 |
| **Total** | | **6** | **-** | **-** | **5 Off + 1 On** | **56** | **24** | **-** | **-** | **372** | **48** | **428** | **72** | **500** |

**Crop** : Lentil

**Thrust Area** : Demonstration of improved variety

**Thematic Area** : Crop production

**Season** : Rabi

**Farming Situation** : Kharif fallow-lentil

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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. | Lentil | 40 | Seed, seed treatment, application of Trico derma before sowing and foliar spray of micronutrient | No of pods/plant, branches/plant, 100 grain weight, grain yield, | Seed, fungicides, Rhizobium, micronutrient | 360000 | - | 16 | 4 | - | - | 72 | 8 | 88 | 12 | 100 |
| **Total** | | **40** | **-** | **-** | **-** | **360000** | **-** | **16** | **4** | **-** | **-** | **72** | **8** | **88** | **12** | **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 | BMP for lentil production | 2 | Farmers | 1 | 1 on and 1 off | 16 | 4 | - | - | 72 | 8 | 88 | 12 | 100 |
| Field day | Field day on lentil | 4 | Farmers and extension workers | 1 | Off | 40 | 20 | - | - | 300 | 40 | 340 | 60 | 400 |
| **Total** | | **6** | **-** | **-** | **1 On + 5 Off** | **56** | **24** | **-** | **-** | **372** | **48** | **428** | **72** | **500** |

**Crop**: Mustard

**Thrust Area**:

**Thematic Area**: Crop production

**Season**: Rabi

**Farming Situation**: Rice-Mustard

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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. | Mustard | 40 | Seed, seed treatment, Neem Oil spray 1500 ppm and sulphur | No of pods/plant, branches/plant, 100 grain weight, grain yield, | Seed, fungicide, insecticid, sulphur | 240000 | - | 16 | 4 | - | - | 72 | 8 | 88 | 12 | 100 |
| **Total** | | **40** | **-** | **-** | **-** | **240000** | **-** | **16** | **4** | **-** | **-** | **72** | **8** | **88** | **12** | **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 | BMP for mustard production | 2 | Farmers | 1 | 1 on and 1 off | 16 | 4 | - | - | 72 | 8 | 88 | 12 | 100 |
| Field day | Field day on mustard | 4 | Farmers and extension workers | 1 | Off | 40 | 20 | - | - | 300 | 40 | 340 | 60 | 400 |
| **Total** | | **6** | **-** | **-** | **1 On +**  **5 Off** | **56** | **24** | **-** | **-** | **372** | **48** | **428** | **72** | **500** |

**Crop**:

**Thrust Area**:

**Thematic Area**:

**Season**:

**Farming Situation**:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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. | Application of Zinc sulphate @ 25 kg/ha as basal dose and Potassium Chloride @1 gm/ water at panicle initiation stage in rice crop. | 10 | Zinc sulphate @ 25 kg/ha as basal dose and Potassium Chloride @1 gm/ water at panicle initiation stage in rice crop. | Grain & straw yield | Zinc sulphate & Potassium Chloride. | 18500 | - | 6 | 3 | - | - | 25 | 6 | 31 | 9 | 40 |
| 2. | FLD of Bajra as a contingent crop. | 10 | PUSA Composite 612/ Hybrid HHB67 (ICAR) | Grain & straw yield | Seed HHB67 | 15000 | - | 6 | 3 | - | - | 25 | 6 | 31 | 9 | 40 |
| 3. | Demonstration of Happy seeder and waste decomposer for *in-situ* crop residue management & check crop burning . | 5 | Application of waste decomposer after harvesting of crop. | Pre & Post soil fertility status | Application of waste decomposer after harvesting of crop. | 3500 |  | 6 | 3 | - | - | 25 | 6 | 31 | 9 | 40 |
| **Total** | | **25** | **-** | **-** | **-** | **37000** | **-** | **18** | **9** | **-** | **-** | **75** | **18** | **93** | **27** | **120** |

**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 | Scientific method of seed treatment / inoculation. | 2 | PF | 1 | OFF | 6 | 3 | - | - | 25 | 6 | 31 | 9 | 40 |
| Field day | 1. Production of hybrid as a contingent crop . 2. Application of waste decomposer after harvesting of crop. 3. Application of Zinc sulphate @ 25 kg/ha as basal dose and Potassium Chloride in paddy. | 3 | PF | 1 | OFF | 6 | 3 | - | - | 25 | 6 | 31 | 9 | 40 |
| **Total** | | **5** | **-** | **-** | **5 Off** | **12** | **6** | **-** | **-** | **50** | **12** | **62** | **18** | **80** |

**Crop** : Chickpea

**Thrust Area** : Crop Protection

**Thematic Area** : Integrated Pest Management

**Season** : Rabi 2019-20

**Farming Situation** : Rainfed

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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. | Biopesticide (bacillus thuringiensis) | 5 | Bt var. kurstaki formulation @ 1kg/ha at the time of flowering | Infestation of Pod borer , pod damage/m row, larvae/m row, yield | Bt. Powder formulation | 10000 | - | - | - | - | - | 40 | - | 40 | - | 40 |
|  |  |  |  | **Total** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **40** | **-** | **40** | **-** | **40** |

**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** |
|  | Management of chickpea pod borer through biopesticides | 1 | Practicing farmer | 1 days | Off | 5 | - | - | - | 15 | 5 | 20 | 5 | 25 |

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

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.)** | **Details of Production** | | | | |
| **Type of Produce** | **Expected Production (quintals)** | **Cost of inputs (Rs.)** | **Expected Gross income (Rs.)** | **Expected Net Income (Rs.)** |
| Paddy | Rajendra Sweta | June- Nov, | 1.5 | C/S | 50 | 45000 | 150000 | 105000 |
| MTU 7029 | June- Nov, | 1 | C/S | 35 | 25000 | 90000 | 65000 |
| BPT 5204 | June- Nov, | 2 | C/S | 60 | 50000 | 160000 | 110000 |
| Rajendra Kasturi/ CR 909 | June- Nov, | 1 | C/S | 25 | 25000 | 100000 | 75000 |
| CO 51 | June- Nov | 0.25 | C/S | 10 | 12000 | 30000 | 18000 |
| Swarna Shreya | June- Nov | 0.25 | C/S | 8 | 11000 | 24000 | 13000 |
| Wheat | HD 2967 | Nov – April, | 2 | F/S | 60 | 50000 | 192000 | 142000 |
| Chick Pea | GNG 1581/Pusa 3043 | Nov- March | 4 | F/S | 40 | 70000 | 280000 | 210000 |
| Mustard | RH-749 | Nov- March | 0.25 | C/S | 4 | 10000 | 40000 | 30000 |
| Lentil | PL- 8 | Nov- March | 0.5 | C/S | 4 | 10000 | 40000 | 30000 |
| Fish | Rehu/Katla/Mrigale | May- March | 0.4 | - | 40 | 100000 | 400000 | 300000 |
| Turmeric | Black Turmeric | March-December | 0.001 | C/S | 0.05 | 20000 | 350000 | 330000 |
| **Grand Total** | | | **13.151** |  | **336.05** | **428000** | **1856000** | **1428000** |

**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.)** |
| Chick Pea | GNG 1581/3043 | Nov- March | 10 | 7 | F/S | 175 | 80000 | 250000 | 170000 |
| **Total** | | | **10** | **7** | **F/S** | **175** | **80000** | **250000** | **170000** |

1. **Extension Activities**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Activities/ Sub-activities** | **No. of activities proposed** | **Farmers** | | | | **Extension Officials** | | | **Total** | | |
| **M** | **F** | **T** | **SC/ ST**  **(% of total)** | **M** | **F** | **T** | **M** | **F** | **Total** |
|  | Field Day | 7 | 600 | 100 | 700 | 20 | 50 | - | 50 | 650 | 100 | 750 |
|  | KisanMela | 2 | 1200 | 200 | 1400 | 20 | 100 | 50 | 150 | 1300 | 250 | 1550 |
|  | KisanGhosthi | 4 | 100 | 50 | 150 | 20 | 40 | 10 | 50 | 140 | 60 | 200 |
|  | Exhibition | 4 | 120 | 70 | 190 | 20 | 15 | 5 | 20 | 135 | 75 | 210 |
|  | Film Show | 20 | 300 | 50 | 350 | 20 | 15 | 5 | 20 | 315 | 55 | 370 |
|  | Method Demonstrations | 2 | 70 | 20 | 90 | 20 | 10 | - | 10 | 80 | 20 | 100 |
|  | Farmers Seminar | 1 | 40 | - | 40 | 20 | 10 | - | 10 | 50 | - | 50 |
|  | Workshop | 1 | 40 | - | 40 | 20 | 10 | - | 10 | 50 | - | 50 |
|  | Group meetings | 2 | 80 | 5 | 85 | 20 | 10 | 5 | 15 | 90 | 20 | 110 |
|  | Lectures delivered as resource persons | 35 | 7000 | 500 | 7500 | 20 | 100 | 40 | 140 | 7100 | 540 | 7640 |
|  | Advisory Services | 1000 | 2500 | 500 | 3000 | 20 | 150 | 50 | 200 | 2650 | 550 | 3200 |
|  | Scientific visit to farmers field | 500 | 1500 | 60 | 1560 | 20 | 20 | - | 20 | 1520 | 60 | 1580 |
|  | Farmers visit to KVK | 500 | 1700 | 200 | 1900 | 20 | - | - | - | 1700 | 200 | 1900 |
|  | Diagnostic visits | 250 | 500 | 100 | 600 | 20 | 50 | - | 50 | 550 | 100 | 650 |
|  | Exposure visits | 4 | 120 | 30 | 150 | 20 | 10 | - | 10 | 130 | 30 | 160 |
|  | Ex-trainees Sammelan |  |  |  |  |  |  |  |  |  |  |  |
|  | Soil health Camp | 2 | 150 | 50 | 200 | 20 | 12 | 2 | 14 | 162 | 64 | 226 |
|  | Animal Health Camp | 2 | 120 | 70 | 190 | 20 | 20 | 5 | 25 | 140 | 75 | 215 |
|  | Agri mobile clinic |  |  |  |  |  |  |  |  |  |  |  |
|  | Soil test campaigns | 2 | 120 | 70 | 190 | 20 | 20 | 10 | 30 | 140 | 80 | 220 |
|  | Farm Science Club Conveners meet |  |  |  |  |  |  |  |  |  |  |  |
|  | Self Help Group Conveners meetings | 2 | 120 | 30 | 150 | 20 | 20 | 5 | 25 | 140 | 35 | 175 |
|  | Mahila Mandals Conveners meetings | 2 | 120 | 30 | 150 | 20 | 20 | 5 | 25 | 140 | 35 | 175 |
|  | Celebration of important days  World Earth Day 22/4/19  International Labour Day 1/5/19  World Environment Day 5/6/19  International Yoga Day 21/6/19  International Women Day 8/03/20  National Vigilance Week 30/10/19 to 4/11/19  Nationall Women Farmers Day 15/10/19  Kisan Diwas 23/12/19  World Soil Day 5/12/19  Constitutional Day 26/11/19  National Science Day 28/02/20 | 11 | 300 | 140 | 440 | 20 | 20 | 10 | 30 | 320 | 150 | 470 |
|  | Swatchta Hi Sewa 15/9/19 to 2/10/19 | 10 | 350 | 150 | 500 | 20 | 20 | 10 | 30 | 370 | 160 | 530 |
|  | Total | **2363** | **17150** | **2425** | **19575** | **440** | **722** | **212** | **934** | **17872** | **2659** | **20531** |

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

|  |  |  |
| --- | --- | --- |
| **Opening balance of**  **2019-2020 (As on 01.04.2019)** | **Amount proposed to be invested during 2019-2020** | **Expected Return** |
| Rs. 10.36909 Lakh | 10.0 Lakh (approx) | 15.0 Lakh (approx) |

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

|  |  |  |
| --- | --- | --- |
| **Project** | **Source** | **Amount to be received (Rs. in lakh)** |
| **CSISA** | **CIMMYT, INDIA** | **4.35** |
| **CRP on CA** | **ICAR-CIAE, Bhopal** | **2.0** |
| **CRP on FM & PF** | **ICAR-CIAE, Bhopal** | **2.0** |
| **Total** | | **8.35** |

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

**OFT – 1 (Agronomy)**

|  |  |
| --- | --- |
| **Season** | Rabi |
| **Title of the OFT** | Assessment of different sowing schedule of ZT wheat on yield, yield attributes and economics of wheat |
| **Thematic Area** | Sowing Window of ZT Wheat |
| **Problem diagnosed** | Poor yield of wheat due to delayed sowing |
| **Important Cause** | Delayed sowing of wheat and poor initial plant stand under conventional sowing |
| **Production system** | Rice-wheat |
| **Micro farming system** | Rice-wheat |
| **Technology for Testing** | Zero tillage sowing of wheat |
| **Existing Practice** | conventional sowing of wheat up to last of December |
| **Hypothesis** | Sowing of wheat using ZT minimized the field preparation time and provides the option for advance sowing of wheat. ZT also save the cost of crop establishment and enhance the wheat yield |
| **Objective(s** | 1. To close yield gaps by late sowing of wheat after rice harvest. 2. To quantify the profit margins from no-till planting done at different times. |
| **Treatments:** | Farmers practice- Sowing of wheat started in the month of November to end of December  TO-1: 1-15 November wheat sowing by ZT  TO-2: 16-30 November wheat sowing by ZT  TO-3: 1-15 December wheat sowing by ZT  TO-4: 15-31 December wheat sowing by ZT |
| **Critical Inputs** | Seed |
| **Unit Size** | 0.2 ha |
| **No of Replications** | 05 |
| **Unit Cost** | Rs 2000 |
| **Total Cost** | Rs 10000 |
| **Monitoring Indicator** | Initial plant population, Plant height, No of shoots/m2, no of grains/spike, dry weight of wheat/m2, 1000 grain weight, Yield, Net return, B:C ratio |
| **Source of Technology** | ICAR-RCER, Patna and CSISA-CIMMYT,(India) |

**OFT – 2 (Agronomy)**

|  |  |
| --- | --- |
| **Season** | Rabi |
| **Title of the OFT** | Effect of water and boron management on terminal heat of late sown wheat |
| **Thematic Area** | Water & Nutrient Management |
| **Problem diagnosed** | Poor yield of late sown wheat due to terminal heat stress at heading stage |
| **Important Cause** | Delayed sowing of wheat and no application of irrigation at heading stage |
| **Production system** | Rice-wheat |
| **Micro farming system** | Rice-wheat |
| **Technology for Testing** | Application of irrigation water and foliar spray of 05% borax |
| **Existing Practice** | No use of irrigation water and borax at heading stage |
| **Hypothesis** | Combination of irrigation and application of boron at before flowering increase the uptake of boron in crop resulting more wheat yield and availability of moisture fight against terminal heat stress |
| **Objective(s** | 1. To understand the interaction of irrigation & Boron and its effect on sterility in wheat. 2. A trail with one set of three treatments with different numbers of irrigation will be conducted on multiple farmer’s filed. |
| **Treatments:** | Farmers practice (No use of Boron+ 3 irrigation)  TO1: 3 irrigation + 5% Borax at 75-80 DAS (5 g/liter)  TO2: 4 irrigation + No use of Boron  TO3: 4 irrigation + 5% Borax at 75-80 DAS (5 g/liter) |
| **Critical Inputs** | Seed and borex |
| **Unit Size** | 0.2 ha |
| **No of Replications** | 05 |
| **Unit Cost** | Rs 2500 |
| **Total Cost** | Rs 12500 |
| **Monitoring Indicator** | Initial plant population, Plant height, No of shoots/m2, no of grains/spike, dry weight of wheat/m2, 1000 grain weight, Yield, Net return, B:C ratio |
| **Source of Technology** | ICAR-RCER, Patna and CSISA-CIMMYT,(India) |

**OFT – 3 (Soil Science)**

|  |  |
| --- | --- |
| **Season** | Rabi |
| **Title of the OFT** | Assessment of conservation agriculture practice on yield of lentil in Rice-Lentil cropping system |
| **Thematic Area** | Soil and Water conservation |
| **Problem diagnosed** | Low yield of lentil crop due to no follow of proper cultivation sowing practice in rice- lentil cropping system. |
| **Important Cause** | No follow of proper cultivation sowing practice caused low yield of lentil in rice- wheat cropping system . |
| **Production system** | **Rice- Lentil** |
| **Micro farming system** | **Lentil cropping system** |
| **Technology for Testing** | Assessment |
| **Existing Practice** | Para Cultivation |
| **Hypothesis** | The recommendation technology of the conservation agriculture practice zero tillage and one ploughing with line sowing may enhance the productivity of lentil in rice-lentil cropping system. |
| **Objective(s** | **to assess conservation practice on yield of lentil in rice- lentil cropping system.** |
| **Treatments:** | Farmers Practice (FP): (Para cultivation.)  T1: One ploughing with line sowing practice.  T2: Zero tillage practice |
| **Critical Inputs** | **Seed, Zero tillage implements and plant protection chemical.** |
| **Unit Size** | **1000 m2.** |
| **No of Replications** | 10 |
| **Unit Cost** | Rs. 615/- |
| **Total Cost** | Rs. **6150/-** |
| **Monitoring Indicator** | **No. of plant population / m2, no of branches , plant height, biomass , yield grain and straw.** |
| **Source of Technology** | BAU Sabour, Bhagalpur. |

**OFT – 4 (Soil Science)**

|  |  |
| --- | --- |
| **Season** | Rabi |
| **Title of the OFT** | Effect of zinc and bio fertilizer application on yield and yield attribute characters of chick pea |
| **Thematic Area** | Micro nutrients deficiency |
| **Problem diagnosed** | Low yield of chickpea due to imbalance use of nutrients because zinc sulphate and Rhizobium culture play a vital role to enhance nodule formation and pod formation |
| **Important Cause** | Improper application of NPK S, Zinc sulphate and bio- fertilizers **.** |
| **Production system** | **Rice –Chickpea cropping system.** |
| **Micro farming system** | **Rice –Chickpea cropping system.** |
| **Technology for Testing** | Assessment |
| **Existing Practice** | no application of Zinc sulphate and Rhizobium culture ) |
| **Hypothesis** | The soil test based recommendation the manure and fertilizers use may enhance the productivity in Chickpea |
| **Objective(s** | Effect of zinc and bio fertilizer application on yield and yield attribute characters of chick pea **.** |
| **Treatments:** | Farmers Practice: (no application of Zinc sulphate and Rhizobium culture )  T1: RDF(NPK18:40:20) Kg/ha+ 20 kg Zinc sulphate/ha .  T2**:** RDF(NPK18:40:20) Kg/ha+ 25 kg Zinc sulphate with Rhizobium/ha |
| **Critical Inputs** | **Seed, zinc sulphate , borax , Rhizobium culture and plant protection chemical.** |
| **Unit Size** | **1000 m2.** |
| **No of Replications** | 10 |
| **Unit Cost** | Rs. 615/- |
| **Total Cost** | Rs. **6150/-** |
| **Monitoring Indicator** | No of nodules**, no. of branches , plant height (cm), biomass , grain and straw yield , test weight (gm) .** |
| **Source of Technology** | IIPR, Kanpur. |

**OFT – 5(Plant Breeding)**

|  |  |
| --- | --- |
| **Season** | Rabi |
| **Title of the OFT** | Evaluation of chickpea late sown Variety in Buxar district |
| **Thematic Area** | Varietal evaluation |
| **Problem diagnosed** | Buxar is dominated in rice wheat cropping system. Farmer’s practices get delayed in kharif due to late on set of monsoon. This delayed leads to delayed in sowing of rabi crops.Hence Chickpea yield is directly affected. |
| **Important Cause** | Low yield of chickpea |
| **Production system** | Agri Horti |
| **Micro farming system** | Agri Horti |
| **Technology for Testing** | For late condition varietal evaluation |
| **Existing Practice** | Farmers use old variety of chickpea |
| **Hypothesis** | Existing var. is found low yielding as will be evaluated with HYV of Pusa 362 and Pusa 547 |
| **Objective(s)** | To replace the exixting var. to HYV |
| **Treatments:** | Farmers practices – Pusa 362  T1- Pusa 547  T2- Pusa 3043 |
| **Critical Inputs** | Seed, Seed treatment (FIR), Fertilizer |
| **Unit Size** | 200m2 |
| **No of Replications** | 10 |
| **Unit Cost** | 800/- |
| **Total Cost** | 8000/- |
| **Monitoring Indicator** | No. of Pods, Hundred grain weight, Net return & B:C ratio |
| **Source of Technology** | ICAR-IARI, New Delhi |

**OFT – 6 (Plant Breeding)**

|  |  |
| --- | --- |
| **Season** | Kharif |
| **Title of the OFT** | Assessment of varietal & Nutrient management of Pigeon Pea in district Buxar. |
| **Thematic Area** | Nutrient management |
| **Problem diagnosed** | Flower dropping & grain filling problem in old variety of pigeon pea due to climate changes in buxar district. |
| **Important Cause** | Low yield of Pigeon Pea |
| **Production system** | Agri Horti |
| **Micro farming system** | Agri Horti |
| **Technology for Testing** | Nutrient Managment |
| **Existing Practice** | No use of micro nutrient managment |
| **Hypothesis** | Flower dropping and grain filling problem in existing var. will be replaced by the technology IPA 203 + Basal application of Micro nutrient (Molybdenum + Boron @1.0 kg/ha) and Foliar application of micro nutrient (Molybdenum + Boron @ 0.2%) |
| **Objective(s** | Problem of the flower dropping will be checked y the trail. |
| **Treatments:** | Farmers practice (Narendra Arhar 1)  T1 IPA 203 + Basal Application of Micro nutrient (Molybdenum and Boron @1.0 kg/ha)  T2 IPA 203 + Basal application of Micro nutrient (Molybdenum + Boron @1.0 kg/ha) + Foliar application of micro nutrient (Molybdenum + Boron @ 0.2%) |
| **Critical Inputs** | Seed, Seed treatment (FIR), Fertilizer |
| **Unit Size** | 200 m2 |
| **No of Replications** | 10 |
| **Unit Cost** | 1000/- |
| **Total Cost** | Rs. 10000/- |
| **Monitoring Indicator** | No of pod/ plant, No of grains/earhead, 1000 grain weight,Yield (kg/ha), Net return, B:C ratio |
| **Source of Technology** | ICAR- IIPR, Kanpur |

**OFT – 7 (Plant Protection)**

|  |  |
| --- | --- |
| **Season** | Kharif |
| **Title of the OFT** | Assessment of new chemical molecules for the management of Rice Stem Borer (*Scirpopha gaincertulas*) |
| **Thematic Area** | IPM |
| **Problem diagnosed** | Yellow stem borer is a serious pest of rice in the district. Stem borer occurs both in kharif and rabi seasons. Moderate to severe incidence is noticed in nursery, planting to mid-tillering and panicle initiation stages. Heavy infestation results in 40-60 per cent yield loss. |
| **Important Cause** | The larvae bore into the plant as a result of which the central shoot of the young plant dries up causing “dead hearts”. In older plants the whole earheads become whitish and chaffy. Loss caused to rice production by this very pest in different regions and seasons varies from 5-90%. |
| **Production system** | Irrigated |
| **Micro farming system** |  |
| **Technology for Testing** | **New chemical molecule** Chlorantraniliprole + Thiamethoxam @2.5 kg/acre |
| **Existing Practice** | Application of Cartap hydrochloride 4 G |
| **Hypothesis** | Use of new and combination of formulation of chemical insecticide will help to check the damage severity |
| **Objective(s** | **To minimize the pest population below the Economic Threshold Level to avoid economic damage and sustainable agriculture.** |
| **Treatments:** | Farmers Practice (FP):  T1: Chlorantraniliprole + Thiamethoxam @2.5 kg/acre  T2: Fipronil 0.3 @ 8 kg/ acre  T3: Carbofuron 3 G @ 13 kg/acre |
| **Critical Inputs** | Chemical pesticides |
| **Unit Size** | 1/4 acre 1000 m2 |
| **No of Replications** | 5 |
| **Unit Cost** | Rs. 1500/- |
| **Total Cost** | Rs. 7500**/-** |
| **Monitoring Indicator** | Dead heart at tillering and panicle initiation stage, egg mass/m2, pest infestation, yield/ha and BC ratio**.** |
| **Source of Technology** | **(Indian Institute of Rice Research, Hyderabad)** |

**OFT – 8 (Plant Protection)**

|  |  |
| --- | --- |
| **Season** | Rabi 2019-20 |
| **Title of the OFT** | Assessment of new combination of insecticide against *Helicoverpa* in chickpea crop |
| **Thematic Area** | IPM |
| **Problem diagnosed** | Chickpea, (Cicer arietinum L.) is an important pulse crop in the district and the *Helicoverpa armigera*, is the serious which causes both quantitative and qualitative losses. |
| **Important Cause** | On an average, 30 – 40% pods were found to be damaged by this pest and an average of 400 kg/ha grain was lost by the borer (Rahman, 1990). In favourable condition, pod damage goes upto 90-95 per cent (Shengal and Ujagir, 1990). Preference of insecticides depends on their easy availability and applicability, but their excessive and indiscriminate use has resulted in the development of insecticidal resistance in the pests and environmental pollution (Phokela et al., 1990) |
| **Production system** | Rainfed |
| **Micro farming system** | Rice-wheat cropping system |
| **Technology for Testing** | Efficacy of insecticides combination to control Gram Pod borer (*H. armigera)* in chickpea crop for Buxar district. |
| **Existing Practice** | Application of pesticides |
| **Hypothesis** | Use of new, safe chemical molecules will bring the pest population below ETL and also to check the development of insecticide resistance. |
| **Objective(s** | To minimize the *H. armigera* population below the economic injury level**.** |
| **Treatments:** | Farmers Practice (FP): (Lambdacyhalothrin)  T1: Emamectin benzoate 1.9 EC @232 ml/ acre  T2: Emamectin benzoate 1.5 + Fipronil 3.5 SC @ 250 ml/acre  T3: Flubendiamide 480 SC @ 40 g/acre |
| **Critical Inputs** | Chemical pesticides |
| **Unit Size** | 1/4 acre 1000 m2 |
| **No of Replications** | 5 |
| **Unit Cost** | Rs. 1500/- |
| **Total Cost** | Rs. 7500**/-** |
| **Monitoring Indicator** | Incidence of *H. armigera***,** percent pod damage, Yield/ha, BC ratio |
| **Source of Technology** | **IIPR Kanpur** |

1. **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. **No. of success stories proposed to be developed with their tentative titles:- 05**
2. **Scientific Advisory Committee**

|  |  |
| --- | --- |
| **Date of SAC meeting held during 2018-19** | **Proposed date during 2019-2020** |
| **25-July, 2018** | **25-July-2019** |

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 | 200 | 20 | 05 | | - | - | | 160 | 15 | | 180 | 20 | | 200 | | 08 | 350 |
| Water Samples | 20 | 02 | - | | - | - | | 18 | - | | 20 | - | | 20 | | 02 | 20 |
| Other (Please specify) |  |  |  | |  |  | |  |  | |  |  | |  | |  |  |
| Total | **220** | **22** | **05** | | **-** | **-** | | **178** | **15** | | **200** | **20** | | **220** | | **10** | **370** |

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

|  |  |  |
| --- | --- | --- |
| **Heads** | **Expenditure (last year) (Rs.) up to 31.03.2019** | **Expected fund requirement (Rs.)** |
| Pay & Allowances | 12185891 | **14000000** |
| TA | 47922 | **250000** |
| Research & Operational Expenses |  | **200000** |
| 1. Research Expenses | 13200 |
| 1. Operational Expenses | 120099 |
| Administrative Expenses :- |  | **800000** |
| 1. Infrastructure | 136947 |
| 1. Communication | 516 |
| 1. Repair & Maintenance | 70037 |
| 1. Others (excluding TA) | 376515 |
| **Total Administrative Expenses** | 584015 |
| Total General / Contingencies | 850360 | **1500000** |
| Capital Expenses | 376986 | **700000** |
| **Total** | **13413237** | **17450000** |

\* 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**

* Organic farming in vegetable growing area.
* Sowing of Wheat through ZT.
* Sowing of Wheat through Happy seeder.
* Varieties of Chickpea (Var.) & Lentil (Var.) crops accepted widely.
* Bee keeping 08 units established in the district.