# Annual Action Plan

## (Jan. 2021 - Dec. 2021)

## Krishi Vigyan Kendra Manpur, Gaya

## Directorate of Extension Education

## Bihar Agricultural University, Sabour Bhagalpur

# ACTION PLAN – (Jan. – Dec., 2021)

## 1. Name of the KVK: KRISHI VIGYAN KENDRA, MANPUR, GAYA

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|---|---|---|---|
| Krishi Vigyan Kendra, Manpur, Gaya - 823003 | | | kvkmanpurgaya@gmail.com |

## 2.Name of host organization : B. A. U., SABOUR, BHAGALPUR, BIHAR

| Address | Telephone | | E mail |
|---|---|---|---|
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| Vice-Chancellor,<br>Bihar Agricultural University, Sabour, Bhagalpur | 0641-2452606 | 0641-2452606 | vcbausabour@gmail.com |

## 3.Training programme to be organized (January to December, 2021)

### (a) 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 |
| **Crop Production** | | | | | | | | | | | | | | |
| INM | Integrated nutrient management in wheat | 2 | 1 | On/Off | Jan 2021 | 10 | 2 | 0 | 0 | 30 | 8 | 40 | 10 | 50 |
| IWM | Integrated weed management in wheat | 2 | 1 | On/Off | Jan 2021 | 10 | 2 | 0 | 0 | 30 | 8 | 40 | 10 | 50 |
| Integrated Crop Management | Cultivation technique of summer moong. | 2 | 1 | On/Off | Feb 2021 | 10 | 2 | 0 | 0 | 30 | 8 | 40 | 10 | 50 |
| Integrated Crop Management | Cultivation technique of Summer maize | 2 | 1 | On/Off | Mar 2021 | 10 | 2 | 0 | 0 | 30 | 8 | 40 | 10 | 50 |
| Integrated Crop Management | Package & practices of summer crops | 2 | 1 | On/Off | Apr 2021 | 10 | 2 | 0 | 0 | 30 | 8 | 40 | 10 | 50 |
| Soil fertility | Method of soil sampling | 2 | 1 | On/Off | May 2021 | 10 | 2 | 0 | 0 | 30 | 8 | 40 | 10 | 50 |
| Nursery Management | Methods of nursery raising of rice | 2 | 1 | On/Off | May 2021 | 10 | 2 | 0 | 0 | 30 | 8 | 40 | 10 | 50 |
| RCT | Cultivation Technique of Direct Seeded Rice | 2 | 1 | On/Off | June 2021 | 10 | 2 | 0 | 0 | 30 | 8 | 40 | 10 | 50 |
| Integrated Crop Management | Cultivation technique of pigeon pea | 2 | 1 | On/Off | June 2021 | 10 | 2 | 0 | 0 | 30 | 8 | 40 | 10 | 50 |
| Integrated Crop Manageme | Cultivation technique of maize | 2 | 1 | On/Off | July 2021 | 10 | 2 | 0 | 0 | 30 | 8 | 40 | 10 | 50 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| nt | | | | | | | | | | | | | | |
| Production of organic inputs | Management of vermin-compost unit in rainy season | 2 | 1 | On/Off | July 2021 | 10 | 2 | 0 | 0 | 30 | 8 | 40 | 10 | 50 |
| IWM | Integrated weed management in paddy | 2 | 1 | On/Off | Aug. 2021 | 10 | 2 | 0 | 0 | 30 | 8 | 40 | 10 | 50 |
| INM | Integrated nutrient management in paddy | 2 | 1 | On/Off | Sep 2021 | 10 | 2 | 0 | 0 | 30 | 8 | 40 | 10 | 50 |
| Integrated Crop Management | Cultivation technique of wheat | 2 | 1 | On/Off | Oct 2021 | 10 | 2 | 0 | 0 | 30 | 8 | 40 | 10 | 50 |
| Integrated Crop Management | Cultivation technique of rapeseed and mustard | 2 | 1 | On/Off | Oct 2021 | 10 | 2 | 0 | 0 | 30 | 8 | 40 | 10 | 50 |
| Integrated Crop Management | Cultivation technique of Lentil | 2 | 1 | On/Off | Nov 2021 | 10 | 2 | 0 | 0 | 30 | 8 | 40 | 10 | 50 |
| IWM | Integrated weed management in wheat | 2 | 1 | On/Off | Dec 2021 | 10 | 2 | 0 | 0 | 30 | 8 | 40 | 10 | 50 |
| | **Total** | **34** | | | | **170** | **34** | **0** | **0** | **510** | **136** | **680** | **170** | **850** |
| **Extension Education** | | | | | | | | | | | | | | |
| Entrepreneurship development | Income generation by means of mushroom production | 2 | 1 | OFF | Jan. 2021 | 2 | 2 | 0 | 0 | 32 | 4 | 34 | 6 | 40 |
| Capacity building | Methods of bee-keeping | 2 | 1 | OFF | Feb. 2021 | 2 | 2 | 0 | 0 | 32 | 4 | 34 | 6 | 40 |
| Capacity building | Mushroom production technique | 2 | 1 | OFF | Mar. 2021 | 2 | 2 | 0 | 0 | 32 | 4 | 34 | 6 | 40 |
| Organic farming | Production methods of organic fertilizers | 2 | 1 | OFF | Apr. 2021 | 2 | 2 | 0 | 0 | 32 | 4 | 34 | 6 | 40 |
| Entrepreneurial development | Beekeeping as the means of self-employment | 2 | 1 | OFF | May 2021 | 2 | 2 | 0 | 0 | 32 | 4 | 34 | 6 | 40 |
| Entrepreneurial development | Income generation through mushroom production | 2 | 1 | OFF | June 2021 | 2 | 2 | 0 | 0 | 32 | 4 | 34 | 6 | 40 |
| Self-help group | socio-economic upliftment through formation and management of SHGs | 2 | 1 | OFF | July 2021 | 2 | 2 | 0 | 0 | 32 | 4 | 34 | 6 | 40 |
| Group dynamics | Farmers field school is the need of the time | 2 | 1 | OFF | Aug. 2021 | 2 | 2 | 0 | 0 | 32 | 4 | 34 | 6 | 40 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | for changing behavioural component of the farmers | | | | | | | | | | | | | |
| Information networking | Use of ICT in agriculture for increasing yield | 2 | 1 | OFF | Sep. 2021 | 2 | 2 | 0 | 0 | 32 | 4 | 34 | 6 | 40 |
| Information networking | availability of markets for sale of their produce | 2 | 1 | OFF | Oct. 2021 | 2 | 2 | 0 | 0 | 32 | 4 | 34 | 6 | 40 |
| Organic farming | Organic farming is the need of the time for farmers | 2 | 1 | OFF | Nov. 2021 | 2 | 2 | 0 | 0 | 32 | 4 | 34 | 6 | 40 |
| Entreprene urship developme nt | Value addition of agricultural products | 2 | 1 | OFF | Dec. 2021 | 2 | 2 | 0 | 0 | 32 | 4 | 34 | 6 | 40 |
| | **Total** | **24** | **12** | | | **24** | **24** | **0** | **0** | **384** | **48** | **408** | **72** | **480** |
| **Veterinary Science** | | | | | | | | | | | | | | |
| Disease Manageme nt | Management of infertility in dairy animals | 2 | 1 | ON/ OFF | Jan 21/ Jul 21 | 8 | 6 | 0 | 0 | 20 | 6 | 28 | 12 | 40 |
| Feed Manageme nt | Method of calculation of balanced ration in dairy animals | 2 | 1 | ON/ OFF | Jan 21/ Jul 21 | 8 | 6 | 0 | 0 | 20 | 6 | 28 | 12 | 40 |
| Poultry Manageme nt | Management of commercial broiler | 2 | 1 | ON/ OFF | Feb 21/ Aug 21 | 8 | 6 | 0 | 0 | 20 | 6 | 28 | 12 | 40 |
| Disease Manageme nt | Vaccination in cattle in poultry | 2 | 1 | ON/ OFF | Feb 21/ Aug 21 | 8 | 6 | 0 | 0 | 20 | 6 | 28 | 12 | 40 |
| Feed Manageme nt | Fodder production round the year | 2 | 1 | ON/ OFF | Mar 21/ Sep 21 | 8 | 6 | 0 | 0 | 20 | 6 | 28 | 12 | 40 |
| Disease Manageme nt | Management of common diseases of goat | 2 | 1 | ON/ OFF | Mar 21/ Oct 21 | 8 | 6 | 0 | 0 | 20 | 6 | 28 | 12 | 40 |
| Goat farming | Small scale goat farming | 2 | 1 | ON/ OFF | Apr 21/ Oct 21 | 8 | 6 | 0 | 0 | 20 | 6 | 28 | 12 | 40 |
| Feed Manageme nt | Treatment of straw with urea | 2 | 1 | ON/ OFF | May 21/ Nov 21 | 8 | 6 | 0 | 0 | 20 | 6 | 28 | 12 | 40 |
| Dairy Manageme nt | Clean milk production | 2 | 1 | ON/ OFF | Sep 21 | 8 | 6 | 0 | 0 | 20 | 6 | 28 | 12 | 40 |
| Disease Manageme nt | Management of HS & BQ in dairy animals | 2 | 1 | ON/ OFF | May 21/ Jun 21 | 8 | 6 | 0 | 0 | 20 | 6 | 28 | 12 | 40 |
| Poultry Manageme nt | Income generation through backyard poultry | 2 | 1 | ON/ OFF | June 21/ Dec 21 | 8 | 6 | 0 | 0 | 20 | 6 | 28 | 12 | 40 |
| Disease Manageme nt | Management & vaccination of FMD in dairy animals | 2 | 1 | ON/ OFF | Nov 21/ Dec 21 | 8 | 6 | 0 | 0 | 20 | 6 | 28 | 12 | 40 |
| | **Total** | **24** | **12** | | | **96** | **72** | **0** | **0** | **240** | **72** | **336** | **144** | **480** |

## (b) 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 |
| **Crop Production** | | | | | | | | | | | | | | |
| RCT | Different methods of crop establishment | 1 | 7 | ON | June 2020 | 8 | 1 | 0 | 0 | 15 | 1 | 23 | 2 | 25 |
| Seed Production | Seed Production Technology in rice | 1 | 5 | ON | July 2020 | 8 | 1 | 0 | 0 | 15 | 1 | 23 | 2 | 25 |
| Production of Organic Inputs | Methods of vermin compost production | 1 | 5 | ON | August 2020 | 8 | 1 | 0 | 0 | 15 | 1 | 23 | 2 | 25 |
| Integrated Farming | Cultivation of aromatic and medicinal Plant | 1 | 5 | ON | Sept 2020 | 8 | 1 | 0 | 0 | 15 | 1 | 23 | 2 | 25 |
| Seed Production | Seed Production Technology in Wheat | 1 | 5 | ON | Nov 2020 | 8 | 1 | 0 | 0 | 15 | 1 | 23 | 2 | 25 |
| Production of Organic Inputs | Production techniques and uses of vermi composting | 1 | 5 | ON | Dec 2020 | 8 | 1 | 0 | 0 | 15 | 1 | 23 | 2 | 25 |
| | **Total** | **6** | | | | **48** | **6** | **0** | **0** | **90** | **6** | **138** | **12** | **150** |
| **Extension Education** | | | | | | | | | | | | | | |
| Beekeeping | Self-employed through bee-keeping | 1 | 5 | ON | Jan. 2021 | 2 | 0 | 0 | 0 | 16 | 2 | 18 | 2 | 20 |
| Entrepreneurship development | Increasing income by means of mushroom production & its value addition | 2 | 5 | ON | Feb. 2021 | 4 | 0 | 0 | 0 | 32 | 4 | 36 | 4 | 40 |
| Vermi-culture | Vermicomposting as the means of self-employment | 1 | 5 | ON | Nov. 2021 | 2 | 0 | 0 | 0 | 16 | 2 | 18 | 2 | 20 |
| | **Total** | **4** | | | | **8** | **0** | **0** | **0** | **64** | **8** | **72** | **8** | **80** |
| **Veterinary Science** | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Goat rearing | Goat Management | 2 | 4 | ON | Feb 21 Jun 21 | 8 | 6 | 0 | 0 | 20 | 6 | 28 | 12 | 40 |
| Dairying | Dairy Management | 2 | 5 | ON | Mar 21, Aug 21 | 8 | 6 | 0 | 0 | 20 | 6 | 28 | 12 | 40 |
| | **Total** | **4** | **9** | | | **16** | **12** | **0** | **0** | **40** | **12** | **56** | **24** | **80** |
| **Horticulture** | | | | | | | | | | | | | | |

## (c) 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** | | | | | | | | | | | | | | |
| Productivity enhancement in field crops | Advances in Rabi crops | 1 | 1 | Off | Jan 2021 | 8 | 1 | 0 | 0 | 15 | 1 | 23 | 2 | 25 |
| Production and use of organic inputs | Production of vermin-compost | 1 | 1 | Off | Feb 2021 | 8 | 1 | 0 | 0 | 15 | 1 | 23 | 2 | 25 |
| Integrated Nutrient Management | INM for sustainable paddy production | 1 | 1 | Off | June 2021 | 8 | 1 | 0 | 0 | 15 | 1 | 23 | 2 | 25 |
| Integrated Nutrient Management | Training programme on INM for input dealers | 1 | 15 | ON | July 2021 | 8 | 1 | 0 | 0 | 15 | 1 | 23 | 2 | 25 |
| Productivity enhancement in field crops | Integrated Weed Management in Rabi crops | 1 | 1 | Off | Oct 2021 | 8 | 1 | 0 | 0 | 15 | 1 | 23 | 2 | 25 |
| RCT | Different methods of crop establishment | 1 | 7 | ON | Nov 2021 | 8 | 1 | 0 | 0 | 15 | 1 | 23 | 2 | 25 |
| | **Total** | **6** | | | | **48** | **6** | **0** | **0** | **90** | **6** | **138** | **12** | **150** |
| **Extension Education** | | | | | | | | | | | | | | |
| Entrepreneurship development | Doubling income by means of mushroom production | 1 | 1 | ON/OFF | Jan 2021 | 3 | 2 | 0 | 0 | 18 | 2 | 21 | 4 | 25 |
| Production and use of organic inputs | Production methods of organic fertilizers | 1 | 1 | ON/OFF | Apr 2021 | 3 | 2 | 0 | 0 | 18 | 2 | 21 | 4 | 25 |
| Capacity building for ICT application | Use of ICT in agriculture | 1 | 1 | ON/OFF | July 2021 | 3 | 2 | 0 | 0 | 18 | 2 | 21 | 4 | 25 |
| Formation and Management of SHGs | Role and importance of SHGs in enhancing socio-economic condition | 1 | 1 | ON/OFF | Oct 2021 | 3 | 2 | 0 | 0 | 18 | 2 | 21 | 4 | 25 |
| | **Total** | **4** | | | | **12** | **4** | **0** | **0** | **72** | **8** | **84** | **16** | **100** |
| **Veterinary Science** | | | | | | | | | | | | | | |
| Disease Management | Management of infertility in cattle | 1 | 1 | ON/OFF | Jun 2021 | 3 | 5 | 0 | 0 | 5 | 7 | 8 | 12 | 20 |
| Dairy Management | Scientific management of dairy animals | 1 | 1 | ON/OFF | Dec. 2021 | 3 | 5 | 0 | 0 | 5 | 7 | 8 | 12 | 20 |
| | **Total** | 2 | | | | 6 | 10 | 0 | 0 | 10 | 14 | 16 | 24 | 40 |

## 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 | 6 | 90 | 24 | 114 | 30 | 6 | 36 | 0 | 0 | 0 | 120 | 30 | 150 |
| Resource Conservation Technologies | 2 | 30 | 8 | 38 | 10 | 2 | 12 | 0 | 0 | 0 | 40 | 10 | 50 |
| Cropping Systems | | | | | | | | | | | | | |
| Crop Diversification | | | | | | | | | | | | | |
| Integrated Farming | | | | | | | | | | | | | |
| Water management | | | | | | | | | | | | | |
| Seed production | | | | | | | | | | | | | |
| Nursery management | 2 | 30 | 8 | 38 | 10 | 2 | 12 | 0 | 0 | 0 | 40 | 10 | 50 |
| Integrated Crop Management | 16 | 240 | 64 | 304 | 80 | 16 | 96 | 0 | 0 | 0 | 320 | 80 | 400 |
| Fodder production | | | | | | | | | | | | | |
| Production of organic inputs | 2 | 30 | 8 | 38 | 10 | 2 | 12 | 0 | 0 | 0 | 40 | 10 | 50 |
| Others, (cultivation of crops ) Soil Fertility | | | | | | | | | | | | | |
| TOTAL | **28** | **420** | **112** | **532** | **140** | **28** | **168** | **0** | **0** | **0** | **560** | **140** | **700** |
| **II. Horticulture** | | | | | | | | | | | | | |
| **a) Vegetable Crops** | | | | | | | | | | | | | |
| Integrated nutrient management | | | | | | | | | | | | | |
| Water management | | | | | | | | | | | | | |
| Enterprise development | | | | | | | | | | | | | |
| Skill development | | | | | | | | | | | | | |
| Yield increment | | | | | | | | | | | | | |
| Production of low volume and high value crops | | | | | | | | | | | | | |
| Off-season vegetables | | | | | | | | | | | | | |
| Nursery raising | | | | | | | | | | | | | |
| Exotic vegetables like Broccoli | | | | | | | | | | | | | |
| Export potential vegetables | | | | | | | | | | | | | |
| Grading and standardization | | | | | | | | | | | | | |
| Protective cultivation (Green Houses, Shade Net etc.) | | | | | | | | | | | | | |
| Others, if any (Cultivation of Vegetable) | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **b) Fruits** | | | | | | | | | | | | | |
| Training and Pruning | | | | | | | | | | | | | |
| Layout and Management of Orchards | | | | | | | | | | | | | |
| Cultivation of Fruit | | | | | | | | | | | | | |
| Management of young plants/orchards | | | | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | | | | |
| Export potential fruits | | | | | | | | | | | | | |
| Micro irrigation systems of orchards | | | | | | | | | | | | | |
| Plant propagation techniques | | | | | | | | | | | | | |
| Others, if any(INM) | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **c) Ornamental Plants** | | | | | | | | | | | | | |
| Nursery Management | | | | | | | | | | | | | |
| Management of potted plants | | | | | | | | | | | | | |

| 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 |
| Export potential of ornamental plants | | | | | | | | | | | | | |
| Propagation techniques of Ornamental Plants | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **d) Plantation crops** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **e) Tuber crops** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **f) Spices** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **g) Medicinal and Aromatic Plants** | | | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | | | |
| Production and management technology | | | | | | | | | | | | | |
| Post harvest technology and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **III. Soil Health and Fertility Management** | | | | | | | | | | | | | |
| Soil fertility management | 2 | 30 | 8 | 38 | 10 | 2 | 12 | 0 | 0 | 0 | 40 | 10 | 50 |
| Soil and Water Conservation | | | | | | | | | | | | | |
| Integrated Nutrient Management | 4 | 60 | 16 | 76 | 20 | 4 | 24 | 0 | 0 | 0 | 80 | 20 | 100 |
| 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 | **6** | **90** | **24** | **114** | **30** | **6** | **36** | **0** | **0** | **0** | **120** | **30** | **150** |
| **IV. Livestock Production and Management** | | | | | | | | | | | | | |
| Dairy Management | 2 | 20 | 6 | 26 | 8 | 6 | 14 | 0 | 0 | 0 | 28 | 12 | 40 |
| Poultry Management | 4 | 40 | 12 | 52 | 16 | 12 | 28 | 0 | 0 | 0 | 56 | 24 | 80 |
| Piggery Management | | | | | | | | | | | | | |
| Rabbit Management | | | | | | | | | | | | | |
| Disease Management | 10 | 100 | 30 | 130 | 40 | 30 | 70 | 0 | 0 | 0 | 140 | 60 | 200 |
| Feed management | 6 | 60 | 18 | 78 | 24 | 18 | 42 | 0 | 0 | 0 | 84 | 36 | 120 |
| Production of quality animal products | | | | | | | | | | | | | |
| Others, if any (Goat farming) | 2 | 20 | 6 | 26 | 8 | 6 | 14 | 0 | 0 | 0 | 28 | 12 | 40 |
| TOTAL | **24** | **240** | **72** | **312** | **96** | **72** | **168** | **0** | **0** | **0** | **336** | **144** | **480** |

| 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 |
| **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 | | | | | | | | | | | | | |
| Small scale processing and value addition | | | | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **VII. Plant Protection** | | | | | | | | | | | | | |
| Integrated Pest Management | | | | | | | | | | | | | |
| Integrated Disease Management | | | | | | | | | | | | | |
| Bio-control of pests and diseases | | | | | | | | | | | | | |
| Production of bio control agents and bio pesticides | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **VIII. Fisheries** | | | | | | | | | | | | | |
| Integrated fish farming | | | | | | | | | | | | | |
| Carp breeding and hatchery management | | | | | | | | | | | | | |
| Carp fry and fingerling rearing | | | | | | | | | | | | | |
| Composite fish culture & fish disease | | | | | | | | | | | | | |
| Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond | | | | | | | | | | | | | |

| 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 |
| 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 | 2 | 32 | 4 | 36 | 2 | 2 | 4 | 0 | 0 | 0 | 34 | 6 | 40 |
| Formation and Management of SHGs | 2 | 32 | 4 | 36 | 2 | 2 | 4 | 0 | 0 | 0 | 34 | 6 | 40 |
| Mobilization of social capital | | | | | | | | | | | | | |
| Entrepreneurial development of farmers/youths | 8 | 128 | 16 | 144 | 8 | 8 | 16 | 0 | 0 | 0 | 136 | 24 | 160 |
| WTO and IPR issues | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| Capacity Building | 4 | 64 | 8 | 72 | 4 | 4 | 8 | 0 | 0 | 0 | 68 | 12 | 80 |
| Information Networking | 4 | 64 | 8 | 72 | 4 | 4 | 8 | 0 | 0 | 0 | 68 | 12 | 80 |
| Organic Farming | 4 | 64 | 8 | 72 | 4 | 4 | 8 | 0 | 0 | 0 | 68 | 12 | 80 |
| TOTAL | **24** | **384** | **48** | **432** | **24** | **24** | **48** | **0** | **0** | **0** | **408** | **72** | **480** |
| **XI Agro-forestry** | | | | | | | | | | | | | |
| Production technologies | | | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | | | |
| Integrated Farming Systems | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **XII. Others (Pl. Specify)** | | | | | | | | | | | | | |
| **TOTAL** | **82** | **1134** | **256** | **1390** | **290** | **130** | **420** | **0** | **0** | **0** | **1424** | **386** | **1810** |

## 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 | 16 | 2 | 18 | 2 | 0 | 2 | 0 | 0 | 0 | 18 | 2 | 20 |
| Integrated farming | 1 | 15 | 1 | 16 | 8 | 1 | 9 | 0 | 0 | 0 | 23 | 2 | 25 |
| Seed production | 2 | 30 | 2 | 32 | 16 | 2 | 18 | 0 | 0 | 0 | 46 | 4 | 50 |
| Production of organic inputs | 2 | 30 | 2 | 32 | 16 | 2 | 18 | 0 | 0 | 0 | 46 | 4 | 50 |
| Planting material production | | | | | | | | | | | | | |
| Vermi-culture | 1 | 16 | 2 | 18 | 2 | 0 | 2 | 0 | 0 | 0 | 18 | 2 | 20 |
| Sericulture | | | | | | | | | | | | | |
| Protected cultivation of vegetable crops | | | | | | | | | | | | | |
| Commercial fruit production | | | | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| Nursery Management of Horticulture crops | | | | | | | | | | | | | |
| Training and pruning of orchards | | | | | | | | | | | | | |
| Value addition | | | | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | | | | |
| Dairying | 2 | 20 | 6 | 26 | 8 | 6 | 14 | 0 | 0 | 0 | 28 | 12 | 40 |
| Sheep and goat rearing | 2 | 20 | 6 | 26 | 8 | 6 | 14 | 0 | 0 | 0 | 28 | 12 | 40 |
| Quail farming | | | | | | | | | | | | | |
| Piggery | | | | | | | | | | | | | |
| Rabbit farming | | | | | | | | | | | | | |
| Poultry production | | | | | | | | | | | | | |
| Ornamental fisheries | | | | | | | | | | | | | |
| Para vets | | | | | | | | | | | | | |
| Para extension workers | | | | | | | | | | | | | |
| Composite fish culture | | | | | | | | | | | | | |
| Freshwater prawn culture | | | | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | | | | |
| Pearl culture | | | | | | | | | | | | | |
| Cold water fisheries | | | | | | | | | | | | | |
| Fish harvest and processing technology | | | | | | | | | | | | | |
| Fry and fingerling rearing | | | | | | | | | | | | | |
| Small scale processing | | | | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | | | | |
| Tailoring and Stitching | | | | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | | | | |
| Enterprise development | 2 | 32 | 4 | 36 | 4 | 0 | 4 | 0 | 0 | 0 | 36 | 4 | 40 |
| Others if any (ICT application in agriculture) | | | | | | | | | | | | | |
| Resource conservation technology | 1 | 15 | 1 | 16 | 8 | 1 | 9 | 0 | 0 | 0 | 23 | 2 | 25 |
| TOTAL | **14** | **194** | **26** | **220** | **72** | **18** | **90** | **0** | **0** | **0** | **266** | **44** | **310** |

## 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 | 2 | 30 | 2 | 32 | 16 | 2 | 18 | 0 | 0 | 0 | 46 | 4 | 50 |
| Integrated Pest Management | | | | | | | | | | | | | |
| Integrated Nutrient management | 2 | 30 | 2 | 32 | 16 | 2 | 18 | 0 | 0 | 0 | 46 | 4 | 50 |
| Rejuvenation of old orchards | | | | | | | | | | | | | |
| Value addition | | | | | | | | | | | | | |
| Protected cultivation technology | | | | | | | | | | | | | |
| Formation and Management of SHGs | 1 | 18 | 2 | 20 | 3 | 2 | 5 | 0 | 0 | 0 | 21 | 4 | 25 |
| Group Dynamics and farmers organization | | | | | | | | | | | | | |
| Information networking among farmers | | | | | | | | | | | | | |
| Capacity building for ICT application | 1 | 18 | 2 | 20 | 3 | 2 | 5 | 0 | 0 | 0 | 21 | 4 | 25 |
| Care and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| WTO and IPR issues | | | | | | | | | | | | | |
| Management in farm animals | 1 | 5 | 7 | 12 | 3 | 5 | 8 | 0 | 0 | 0 | 8 | 12 | 20 |
| Livestock feed and fodder production | 1 | 5 | 7 | 12 | 3 | 5 | 8 | 0 | 0 | 0 | 8 | 12 | 20 |
| Household food security | | | | | | | | | | | | | |
| Women and Child care | | | | | | | | | | | | | |
| Low cost and nutrient efficient diet designing | | | | | | | | | | | | | |
| Production and use of organic inputs | 2 | 33 | 3 | 36 | 11 | 3 | 14 | 0 | 0 | 0 | 44 | 6 | 50 |
| Gender mainstreaming through SHGs | | | | | | | | | | | | | |
| Crop intensification | | | | | | | | | | | | | |
| Others if any | | | | | | | | | | | | | |
| RCT | 1 | 15 | 1 | 16 | 8 | 1 | 9 | 0 | 0 | 0 | 23 | 2 | 25 |
| Entrepreneurship Development | 1 | 18 | 2 | 20 | 3 | 2 | 5 | 0 | 0 | 0 | 21 | 4 | 25 |
| TOTAL | **12** | **172** | **28** | **200** | **66** | **24** | **90** | **0** | **0** | **0** | **238** | **52** | **290** |

## 4. Frontline demonstration to be conducted*

**FLD: 1**

**Crop**: Moong Var. PDM -139
**Thrust Area**: Cropping intensity
**Thematic Area**: ICM
**Season**: Summer 2021
**Farming Situation**: Upland Medium

**FLD: 2**

**Crop**: Paddy Var. R. Sweta
**Thrust Area**: Transplanting
**Thematic Area**: ICT
**Season**: Kharif 2021
**Farming Situation**: Upland Medium

**FLD: 3**

**Crop**: Groundnut Var. A.K. – 12 - 24
**Thrust Area**: Introduction of new crop
**Thematic Area**: ICM
**Season**: Kharif 2021
**Farming Situation**: Upland Medium

**FLD: 4**

**Crop**: Wheat
**Thrust Area**: ZT Var. Sabour Shrestha
**Thematic Area**: ICT
**Season**: Rabi 2021-22
**Farming Situation**: Upland Medium

| 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 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | SC | | ST | | Other | | Total | | |
| | | | | | Name of Inputs | Demo | Local | M | F | M | F | M | F | M | F | T |
| 1 | Moong (PDM-139) | 10 | Seed & seed treatment | Yield & Economics | Seed, bio-fertilizers | | | 8 | 2 | - | - | 12 | 3 | 20 | 5 | 25 |
| 2 | Paddy (R. Sweta) | 5 | Single seedling | Yield data | Seed, herbicide | | | 2 | 1 | - | - | 8 | 1 | 10 | 2 | 12 |
| 3 | Groundnut (A.K. 12 – 24) | 2 | Seed | Yield & Economics | Seed | | | 6 | 3 | 0 | 0 | 10 | 2 | 16 | 5 | 21 |
| 4 | Wheat | 10 | ZT | Yield data | Seed | | | 8 | 2 | - | - | 12 | 3 | 20 | 5 | 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 |
| Field day | Single seedling | 2 | Practicing farmer | 2 | Off | 26 | 8 | - | - | 61 | 9 | 87 | 17 | 104 |
| Field day | Field day on Early sowing of wheat var. S. Shreshtha | 1 | Practicing farmer | 1 | Off | 15 | 4 | - | - | 44 | 6 | 59 | 10 | 69 |

**FLD: 5**

**Crop**: Mushroom
**Thrust Area**: Income & employment generation through cultivation of mushroom
**Thematic Area**: Mushroom production
**Season**: Rabi
**Farming Situation**: Low temperature, High relative humidity inside room

| Sl. No. | Crop & variety / Enterprises | Proposed Area (ha)/ Unit (No.) | Technology package for demonstration | Parameter (Data) in relation to technology demonstrated | Name of Inputs | Cost of cultivation | No. of farmers / demonstration | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | SC | | ST | | Other | | Total | | |
| | | | | | | | M | F | M | F | M | F | M | F | T |
| 1 | Mushroom (Button mushroom) | 50 (No.) | Spawn, compost, chemicals & packaging materials | Yield, BCR | Spawn, compost, chemicals & packaging materials | | 5 | 15 | 0 | 0 | 5 | 25 | 10 | 40 | 50 |

**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 | Change in behavior towards production technology of mushroom | 1 | 50 | 1 day | ON | 5 | 15 | 0 | 0 | 5 | 25 | 10 | 40 | 50 |

**FLD: 6**

**Crop**: Paddy
**Thrust Area**: Yield enhancement through application of bio-fertilizers
**Thematic Area**: INM
**Season**: Kharif
**Farming Situation**: Irrigated, Rice-Wheat-Moong

| 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. | Paddy (R. Sweta) | 10 ha | PSB | Yield, BCR | PSB | | | 5 | 2 | 0 | 0 | 13 | 5 | 18 | 7 | 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 | Importance of bio-fertilizers as soil application in enhancing yield | 1 | 20 | 1 day | ON/OFF | 5 | 2 | 0 | 0 | 13 | 5 | 18 | 7 | 25 |

**FLD: 7**

**Crop**: Makhan Grass
**Thrust Area**: Green Fodder
**Thematic Area**: Fodder Production
**Season**: Rabi
**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. | Makhan Grass | 0.1 | Seed | Milk production/animal/day | Seed | 6000 | - | 3 | 2 | 0 | 0 | 13 | 2 | 16 | 4 | 20 |

**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 |
| 1. | Field day | 1 | PF | 1 | Off | 5 | 5 | 0 | 0 | 10 | 5 | 15 | 10 | 25 |

**FLD: 8**

**Crop**: Livestock
**Thrust Area**: Feed Management
**Thematic Area**: Feed Management
**Season**: Rabi/Kharif
**Farming Situation**: Semi intensive

| 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. | Livestock | 20 | Mineral Mixture | Milk production/animal/day | Mineral Mixture | 15000 | - | 3 | 2 | 0 | 0 | 13 | 2 | 16 | 4 | 20 |

**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 |
| 1. | Field day | 1 | PF | 1 | Off | 5 | 5 | 0 | 0 | 10 | 5 | 15 | 10 | 25 |

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

| Name of the Crop / Enterprise | Variety / Type | Period From Jan. 2021 to Dec. 2021 | Area (ha.) | Details of Production | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Type of Produce | Expected Production (quintals) | Cost of inputs (Rs.) | Expected Gross income (Rs.) | Expected Net Income (Rs.) |
| Greengram | PDM– 139 | Feb 2021 | 1.0 | F/S | 5.0 | 16000 | 75000 | 59000 |
| Paddy | R. Sweta | June 2021 | 5.0 | F/S | 200.0 | 200000 | 900000 | 700000 |
| Wheat | DBW - 187 | Nov 2021 | 4.0 | F/S | 120.0 | 120000 | 540000 | 420000 |
| Wheat | S. Shrestha | Dec 2021 | 1.0 | F/S | 30.0 | 30000 | 135000 | 105000 |

**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 | 10 | 300 | 50 | 350 | | 10 | - | 10 | 310 | 50 | 360 |
| 2. | KisanMela | 1 | - | - | - | - | - | - | - | - | | Mass |
| 3. | KisanGhosthi | 40 | 700 | 100 | 800 | | 25 | 10 | 35 | 725 | 110 | 835 |
| 4. | Exhibition | 1 | - | - | - | | - | - | - | - | - | mass |
| 5. | Film Show | | | | | | | | | | | |
| 6. | Method Demonstrations | 6 | 60 | 10 | 70 | | 3 | 2 | 5 | 63 | 12 | 75 |
| 7. | Farmers Seminar | | | | | | | | | | | |
| 8. | Workshop | 1 | - | - | - | - | - | - | - | - | | Mass |
| 9. | Group meetings | | | | | | | | | | | |
| 10. | Lectures delivered as resource persons | 25 | 600 | 20 | 620 | | 25 | 15 | 40 | 625 | 35 | 660 |
| 11. | Advisory Services | 500 | 400 | 100 | 500 | | - | - | - | 400 | 100 | 500 |
| 12. | Scientific visit to farmers field | 100 | 60 | 30 | 90 | | 10 | 0 | 10 | 70 | 30 | 100 |
| 13. | Farmers visit to KVK | 500 | 400 | 100 | 500 | | | | | 400 | 100 | 500 |
| 14. | Diagnostic visits | 10 | 40 | 15 | 55 | | | | | 40 | 15 | 55 |
| 15. | Exposure visits | 5 | 150 | 0 | 150 | | | | | 150 | 0 | 150 |
| 16. | Ex-trainees Sammelan | | | | | | | | | | | |
| 17. | Soil health Camp | | | | | | | | | | | |
| 18. | Animal Health Camp | 4 | 75 | 25 | 100 | 25 | 0 | 0 | 0 | 75 | 25 | 100 |
| 19. | Agri mobile clinic | | | | | | | | | | | |
| 20. | Soil test campaigns | | | | | | | | | | | |
| 21. | Farm Science Club Conveners meet | | | | | | | | | | | |
| 22. | Self Help Group Conveners meetings | | | | | | | | | | | |
| 23. | MahilaMandals Conveners meetings | | | | | | | | | | | |
| 24. | Celebration of important days (specify) | | | | | | | | | | | |
| 25. | Any Other (Specify) | | | | | | | | | | | |
| | Total | **1203** | **2785** | **450** | **3235** | **25** | **73** | **27** | **100** | **2858** | **477** | **3335** |

## 7. Revolving Fund (in Rs.)

| Opening balance of 2020-2021 (As on 01.01.2021) | Amount proposed to be invested during 2020-2021 | Expected Return |
|---|---|---|
| **24,67,973.85** | **3,50,000.00** | **11,00,000.00** |

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

| Project | Source | Amount to be received (Rs. in lakh) |
|---|---|---|
| Video Conferencing | Govt. of Bihar | 4,50,000.00 |

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

**OFT-1**

| | | |
|---|---|---|
| 1 | **Season:** | Kharif 2021 |
| 2 | **Title of the OFT:** | To access the suitable nitrogen management through different tools on paddy under rice- wheat cropping system |
| 3 | **Thematic Area:** | Integrated nutrient management |
| 4 | **Problem diagnosed:** | Low yield and excessive use of N fertilizer |
| 5 | **Important Cause:** | Injudicious use of fertilizer in paddy |
| 6 | **Production system:** | Rice-Wheat Production System |
| 7 | **Micro farming system:** | Crop production |
| 8 | **Technology for Testing:** | $TO_1$ – Farmer Practice - 225:40:0 kg NPK/ha<br>$TO_2$ – Recommended dose of Fertilizer(120:60:40)kg NPK/ha<br>$TO_3$ –Use of green seekere at 1st and 2nd top dressing(1/2 dose of N and 60:40kg P:K/ha)<br>$TO_4$ –Use of LCC at 1st and 2nd top dressing(1/2 dose of N and 60:40kg P:K/ha) |
| 9 | **Existing Practice:** | 225:40:0kg NPK/ha |
| 10 | **Hypothesis:** | All technology option produce similar yield |
| 11 | **Objective(s):** | To assess the optimum dose of N in paddy<br>To assess the yield & economics of different management practices |
| 12 | **Treatments:** | $TO_1$ – Farmer Practice - 225:40:0 kg NPK/ha<br>$TO_2$ – Recommended dose of Fertilizer(120:60:40)kg NPK/ha<br>$TO_3$ –Use of green seekere at 1st and 2nd top dressing(1/2 dose of N and 60:40kg P:K/ha)<br>$TO_4$ –Use of LCC at 1st and 2nd top dressing(1/2 dose of N and 60:40kg P:K/ha) |
| 13 | **Critical Inputs:** | Seed, Trycyclazol |
| 14 | **Unit Size:** | 1 acre |
| 15 | **No of Replications:** | 5 |
| 16 | **Unit Cost:** | Rs 2450=00 |
| 17 | **Total Cost:** | Rs 2000 X 5=Rs 10000 |
| 18 | **Monitoring Indicator:** | Yield attributes, Yield, Soil properties, Economics |
| 19 | **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** | ICAR-RCER Patna |

**OFT – 2**

| | | |
|---|---|---|
| 1 | **Season** | Rabi 2021 |
| 2 | **Title of the OFT:** | To access the suitable herbicide in wheat to control the complex weed flora of South Bihar. |
| 3 | **Thematic Area:** | Integrated Weed management |
| 4 | **Problem diagnosed:** | Low income due to high infestation of weed |
| 5 | **Important Cause:** | Improper application of herbicides |
| 6 | **Production system:** | Rice-wheat Production System |
| 7 | **Micro farming system:** | Crop production |
| 8 | **Technology for Testing:** | Farmer Practice - (Use of 2,4-D Na Salt 1000g/ha at 35DAS)<br>$TO_1$ –Application of Sulfosulfuron 33g/ha+ Metsulfuron33g/ha at 30DAS<br>$TO_2$ – Application of Clodinofob ethyl 400g/ha+ Carfentrazone-ethyle 50g/ha at 30DAS |
| 9 | **Existing Practice** | Broad costing of 2,4-D Na salt |
| 10 | **Hypothesis:** | All technology option produce similar yield |
| 11 | **Objective(s):** | To assess the suitable herbicide for control of complex weed flora<br>To assess the economics of different technology option |
| 12 | **Treatments:** | Farmer Practice - (Use of 2,4-D Na Salt 1000g/ha at 35DAS)<br>$TO_1$ –Application of Sulfosulfuron 33g/ha+ Metsulfuron33g/ha at 30DAS<br>$TO_2$ – Application of Clodinofob ethyl 400g/ha+ Carfentrazone-ethyle 50g/ha at 30DAS |
| 13 | **Critical Inputs:** | Seed 50 kg/ha, Total, clodinofop and carfentazone |
| 14 | **Unit Size:** | 1 acre |
| 15 | **No of Replications:** | 10 |
| 16 | **Unit Cost:** | Rs 3275=00 |
| 17 | **Total Cost:** | Rs 3275X 5=Rs 16375 |
| 18 | **Monitoring Indicator:** | Yield attributes, Yield, weed studies Economics |
| 19 | **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** | ICAR-RCER Patna |

**OFT-3**

| | | |
|---|---|---|
| 1 | **Season** | **Kharif** |
| 2 | **Title of the OFT:** | To assess the suitable cropping system under rice fallow condition of South Bihar |
| 3 | **Thematic Area:** | Cropping system |
| 4 | **Problem diagnosed:** | • Low system productivity & profitability under rice fallow system due to water scarcity<br>• Soil moisture deficiency for next crop |
| 5 | **Important Cause:** | Low rainfall |
| 6 | **Production system:** | Rice-Lentil/Lathyrus |
| 7 | **Micro farming system:** | Medium upland, rainfed |
| 8 | **Technology for Testing:** | $TO_1$ (FP) – Rice-Fallow<br>$TO_2$ –Rice (S. Ardhajal)-Utera Lentil<br>$TO_3$ –Rice (S. Ardhajal)-Utera Lathyrus<br>$TO_4$ - Rice (S. Ardhajal)-Utera Linseed |
| 9 | **Existing Practice** | $TO_1$ – Rice-Fallow |
| 10 | **Hypothesis:** | Less productivity |
| 11 | **Objective(s):** | Yield enhancement with different cropping system |
| 12 | **Treatments:** | Technology option-I (TO-I) ( Farmers Practice (FP)): Rice- Fallow<br>Technology option-II (TO-II): Rice (S. Ardhajal)-Utera Lentil<br>Technology option-III(TO-III): Rice (S. Ardhajal)-Utera Lathyrus<br>Technology option-IV (TO-IV): Rice (S. Ardhajal)-Utera Linseed |
| 13 | **Critical Inputs:** | Seed |
| 14 | **Unit Size:** | 2.5 Acre |
| 15 | **No of Replications:** | 5 |
| 16 | **Unit Cost:** | 3000 |
| 17 | **Total Cost:** | 15000 |
| 18 | **Monitoring Indicator:** | Yield attributes, Net return, B:C ratio, soil moisture status |
| 19 | **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** | ICAR-RCER, Patna |

**OFT-4**

| | | |
|---|---|---|
| 1 | **Season** | **Kharif** |
| 2 | **Title of the OFT:** | To assess the suitable herbicide to control the weed in paddy |
| 3 | **Thematic Area:** | Weed management |
| 4 | **Problem diagnosed:** | Heavy weed infestation of mixed flora while cyprus rotandus is a serious problem in rice causing reduction in yield |
| 5 | **Important Cause:** | Less yield due to severe infestation of weeds |
| 6 | **Production system:** | Rice-Wheat |
| 7 | **Micro farming system:** | Medium upland |
| 8 | **Technology for Testing:** | $TO_1$ (FP) – Pretilachlor 750 g a.i/ha as a PE at 0 – 3 DAT<br>$TO_2$ – $TO_1$ + Pyrazosulfuron 25 g a.i /ha as a POE at 20 – 25 DAT<br>$TO_3$ – $TO_1$ +Pyrazosulfuron 25 g a.i /ha as a POE Fb Bisparivac sodium 25 g a.i/ha as a POE at 20 – 25 DAT |
| 9 | **Existing Practice** | $TO_1$ (FP) – Pretilachlor as a PE at 0 – 3 DAT |
| 10 | **Hypothesis:** | All technology option produce different yield |
| 11 | **Objective(s):** | • To assess the suitable herbicide for control of complex weed flora<br>• To assess the economics of different technology option |
| 12 | **Treatments:** | $TO_1$ (FP) – Pretilachlor 750 g a.i/ha as a PE at 0 – 3 DAT<br>$TO_2$ – $TO_1$ + Pyrazosulfuron 25 g a.i /ha as a POE at 20 – 25 DAT<br>$TO_3$ – $TO_1$ +Pyrazosulfuron 25 g a.i /ha as a POE Fb Bisparivac sodium 25 g a.i/ha as a POE at 20 – 25 DAT |
| 13 | **Critical Inputs:** | Seed and herbicide |
| 14 | **Unit Size:** | 5.0 Acre |
| 15 | **No of Replications:** | 5 |
| 16 | **Unit Cost:** | 4000 |
| 17 | **Total Cost:** | 20000 |
| 18 | **Monitoring Indicator:** | Yield attributes, Net return, B:C ratio, weed studies |
| 19 | **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** | CSISA - CYMMYT |

**OFT-5 (Extension Education)**

| | | |
|---|---|---|
| 1 | **Season:** | **Kharif** |
| 2 | **Title of the OFT:** | Assessment of Soil Health Card in Gaya district |
| 3 | **Thematic Area:** | Soil fertility management |
| 4 | **Problem diagnosed:** | Only few farmers are aware about importance and benefits of Soil Health Card |
| 5 | **Important Cause:** | Non-adoption of recommended dose of fertilizers |
| 6 | **Production system:** | Paddy-Wheat-Green gram |
| 7 | **Micro farming system:** | Timely sown, irrigated condition |
| 8 | **Technology for Testing:** | Survey through questionnaire (dose of fertilizer, time of fertilizer application and method of fertilizer application) |
| 9 | **Existing Practice:** | Overdose/ under dose of fertilizers application |
| 10 | **Hypothesis:** | All farmers are aware of dose of fertilizer recommendations |
| 11 | **Objective(s):** | To know the level of knowledge of the farmers about recommended dose of fertilizers<br>To find the level of adoption of recommended dose of fertilizers<br>To know the increase in yield due to use of fertilizers as per recommendations |
| 12 | **Treatments:** | Farmers Practice - Farmers having no Soil Health Card not applying recommended dose of fertilizer.<br>Option I – Have soil health card but not applying as recommendation in training/group meeting<br>Option II – Have soil health card and apply as per recommendation |
| 13 | **Critical Inputs:** | |
| 14 | **Unit Size:** | - |
| 15 | **No of Replications:** | 90 |
| 16 | **Unit Cost:** | |
| 17 | **Total Cost:** | |
| 18 | **Monitoring Indicator:** | i. Level of knowledge (%)<br>ii. Level of adoption (%)<br>iii. Yield (qt./ha)<br>iv. BCR |
| 19 | **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** | BAU, Ranchi, Jhakhand |

## OFT-6 (Extension Education)

| | | |
|---|---|---|
| 1 | **Season** | **Rabi** |
| 2 | **Title of the OFT:** | Assessment of different Extension Teaching methods used in popularising wheat sowing by Zero Tillage Machine among farmers of Gaya District. |
| 3 | **Thematic Area:** | Capacity building |
| 4 | **Problem diagnosed:** | As a result of high cost of cultivation late sowing of wheat there is less productivity resulting in less net income |
| 5 | **Important Cause:** | Late harvesting of paddy |
| 6 | **Production system:** | Crop production |
| 7 | **Micro farming system:** | Irrigated |
| 8 | **Technology for Testing:** | 1. Level of knowledge (%)<br>2. Level of adaption (%)<br>3. B:C ratio |
| 9 | **Existing Practice** | Farmers sowing wheat by broadcasting method after tillage |
| 10 | **Hypothesis:** | Different extension teaching methods perform equally |
| 11 | **Objective(s):** | 1. To know the level of knowledge regarding sowing of wheat by ZT method<br>2. To know the level of adoption of wheat technologies by ZT method<br>3. To know the production potential of wheat sown by ZT method |
| 12 | **Treatments:** | Farmers Practice – Group of farmers not exposed to any Extension Teaching methods for sowing of wheat by Zero Tillage Machine.<br>$TO_1$– Group of farmers given Training +Literature on sowing of wheat by Zero Tillage machine<br>$TO_2$ - Group of farmers given Training +Demonstration on sowing of wheat by Zero Tillage machine |
| 13 | **Critical Inputs:** | |
| 14 | **Unit Size:** | |
| 15 | **No of Replications:** | |
| 16 | **Unit Cost:** | |
| 17 | **Total Cost:** | 2000 |
| 18 | **Monitoring Indicator:** | Field visit and survey |
| 19 | **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** | BAU Sabour |

**OFT – 7**

| | | |
|---|---|---|
| 1 | **Season:** | **Kharif/Rabi** |
| 2 | **Title of the OFT:** | Comparative assessment of hormone (GnRH) and mineral mixture supplement for improving postpartum anestrus in cattle |
| 3 | **Thematic Area:** | Disease management |
| 4 | **Problem diagnosed:** | Postpartum infertility in cattle |
| 5 | **Important Cause:** | Hormonal imbalance and nutrient deficiency |
| 6 | **Production system:** | Semi-intensive |
| 7 | **Micro farming system:** | Semi-intensive |
| 8 | **Technology for Testing:** | Farmer Practice (FP) - Dewormer + Mineral Mixture @ 50 gm/day<br>TOI – FP + Inorganic Phosphorus Inj. + Vitamin $AD_3E$ Inj. @ 10 ml alternate day + Micro-minerals 1 Bolus for 28 days<br>TO II – FP + TOI + GnRH Inj. @ 5 ml at the time of AI |
| 9 | **Existing Practice:** | Treatment with mineral mixture |
| 10 | **Hypothesis:** | All technology option produce similar yield |
| 11 | **Objective(s):** | To assess the suitable treatment of postpartum infertility |
| 12 | **Treatments:** | Farmer Practice (FP) - Dewormer + Mineral Mixture @ 50 gm/day<br>TOI – FP + Inorganic Phosphorus Inj. + Vitamin $AD_3E$ Inj. @ 10 ml alternate day + Micro-minerals 1 Bolus for 28 days<br>TO II – FP + TOI + GnRH Inj. @ 5 ml at the time of AI |
| 13 | **Critical Inputs:** | Medicine |
| 14 | **Unit Size:** | 1 |
| 15 | **No of Replications:** | 10 |
| 16 | **Unit Cost:** | Rs. 2500.00 |
| 17 | **Total Cost:** | Rs 2500/- x 10 = 25000/- |
| 18 | **Monitoring Indicator:** | No. of animal came in heat, No. of animal pregnant, |
| 19 | **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** | BVC, Patna |

**OFT – 8**

| | | |
|---|---|---|
| 1 | **Season:** | **Kharif/Rabi** |
| 2 | **Title of the OFT:** | Evaluation of ethnoveterinary preparation for treatment of retention of placenta (ROP) in cattle |
| 3 | **Thematic Area:** | Disease management |
| 4 | **Problem diagnosed:** | Retention of placenta in cattle |
| 5 | **Important Cause:** | Hormonal imbalance and nutrient deficiency |
| 6 | **Production system:** | Semi-intensive |
| 7 | **Micro farming system:** | Semi-intensive |
| 8 | **Technology for Testing:** | Radish – 2 tuber + 1.5 kg ladyfinger + 250 g jiggery + 25 g salt after caving |
| 9 | **Existing Practice:** | Treatment with medicine |
| 10 | **Hypothesis:** | Ethnoveterinary preparation can treat effectively |
| 11 | **Objective(s):** | To evaluate the ethnoveterinary preparation |
| 12 | **Treatments:** | Farmer Practice (FP) - Rice husk<br>TOI – Radish – 2 tuber + 1.5 kg ladyfinger + 250 g jiggery + 25 g salt after caving<br>TO II – Exapar @ 100 ml x 2 |
| 13 | **Critical Inputs:** | Medicine |
| 14 | **Unit Size:** | 1 |
| 15 | **No of Replications:** | 10 |
| 16 | **Unit Cost:** | Rs. 250.00 |
| 17 | **Total Cost:** | Rs 250/- x 10 = 2500/- |
| 18 | **Monitoring Indicator:** | No. of animal effectively treated |
| 19 | **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** | NDDB, Anand, Gujarat |

**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.) |
|---|---|---|
| 1. | CRAP | 9.0 Lakh |
| 2. | CSISA | 1.0 Lakh |
| 3. | GKMS | 4.80 Lakh |

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

1 – Honey Production

2 – Integrated Farming System

**12. Scientific Advisory Committee**

| Date of SAC meeting held during 2020-21 | Proposed date during 2021 |
|---|---|
| 13.01.2020 | 15 Oct., 2021 |
| 16.10.2020 | |

**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 | 70 | 9 | 0 | 0 | 0 | 52 | 9 | 61 | 9 | 70 | 5 | 70 |
| Water Samples | | | | | | | | | | | | |
| Other (Please specify) | | | | | | | | | | | | |
| Total | **70** | **9** | **0** | **0** | **0** | **52** | **9** | **61** | **9** | **70** | **5** | **70** |

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

| Heads | Expenditure (last year) (Rs.) up to 31.03.2020 | Expected fund requirement (Rs.) |
|---|---|---|
| Pay and Allowance | 83,06,944.00 | 1,00,00,000.00 |
| T.A. | 1,00,000.00 | 1,50,000.00 |
| HRD | 30,000.00 | 50,000.00 |
| Contingency | 7,78,902.00 | 10,00,000.00 |
| Capital | 4,50,000.00 | 7,00,000.00 |
| Vehicle | 8,00,000.00 | 0.0 |
| **Total** | **1,04,65,846.00** | **1,19,00,000.00** |

* 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**

- ✓ The area under paddy variety Sahbhagi (draught tolerant) has increased significantly i.e., from 275 ha to about 1500 ha.
- ✓ Adoption of drought tolerant paddy variety (Sahbhagi) – About 44%

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