.ANNUAL ACTION PLAN

TRAINING PROGRAMMES

1. Farmers and farmwomen

(ON - CAMPUS)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Thematic Area\* | Title | No courses | Duration  (Days) | No. of participants | | | |
| SC | ST | Others | Total |
| a)Crop production | | | | | | | |
| Integrated Farming | To impart training to develop knowledge on integrated farming system. | 1 | 3 | 8 | 9 | 13 | 30 |
| Water management | To impart training to develop knowledge on rain water harvesting for recycling the same for life saving irrigation in crops. | 1 | 3 | 6 | 10 | 12 | 28 |
| Seed production | To impart training to develop knowledge on improved method of raising rice seedling | 2 | 3 | 10 | 12 | 11 | 33 |
| Nursery management | To impart training to develop knowledge on management of nursery development. | 1 | 3 | 10 | 6 | 14 | 30 |
| Cropping System | To impart training to develop knowledge on different kharif crop. | 1 | 2 | 5 | 12 | 13 | 30 |
| Integrated Crop Management | To impart training to develop knowledge on integrated crop management in rabi season. | 2 | 3 | 8 | 10 | 14 | 32 |
| Production of organic input | To impart training to develop knowledge on organic input. | 1 | 3 | 6 | 12 | 11 | 29 |
| Total |  | 8 | 20 | 53 | 71 | 88 | 212 |
| b) Vegetable Crop | | | | | | | |
| Production of low value and high volume crop | To impart training to develop knowledge on improved technique of seed bed preparation for healthy seedling production. | 1 | 3 | 8 | 10 | 12 | 30 |
| Training and Pruning | To impart training to develop knowledge on development of nutritional garden for fresh vegetable. | 2 | 3 | 12 | 10 | 10 | 32 |
| Total |  | 3 | 5 | 20 | 20 | 22 | 62 |
| c) Fruit | | | | | | | |
| Cultivation of Fruit | To impart training to develop knowledge on development of cultivation of fruits plants. | 1 | 3 | 8 | 12 | 10 | 30 |
| Rejuvenation of old orchards | To impart training to develop knowledge on Rejuvenation of old orchards | 1 | 3 | 7 | 12 | 11 | 30 |
| Micro irrigation systems of orchards | To impart training to develop knowledge on Micro irrigation systems of new and old orchards. | 2 | 3 | 10 | 11 | 12 | 33 |
| Total |  | 4 | 9 | 25 | 35 | 33 | 93 |
| d) soil Health and Fertility Management | | | | | | | |
| Soil and water Conservation | To impart training to develop knowledge on Soil and water Conservation for better production. | 1 | 3 | 8 | 7 | 15 | 30 |
| Integrated Nutrient Management | To impart training to develop knowledge on Integrated Nutrient Management. | 2 | 3 | 10 | 12 | 11 | 33 |
| Production and use of organic inputs | To impart training to develop knowledge on Production and use of organic inputs. | 2 | 3 | 8 | 12 | 12 | 32 |
| Soil and water testing | To impart training to develop knowledge on Soil and water testing. | 2 | 3 | 10 | 8 | 14 | 32 |
| Total |  | 7 | 12 | 36 | 39 | 52 | 127 |
| e) Livestock Production and Management | | | | | | | |
| Piggery Management | To impart training to develop knowledge on Piggery Management. | 2 | 3 | 10 | 9 | 14 | 33 |
| Disease Management | To impart training to develop knowledge on Disease Management. | 2 | 3 | 8 | 11 | 13 | 32 |
| Total |  | 4 | 6 | 18 | 20 | 27 | 65 |
| f) Home Science/Women empowerment | | | | | | | |
| Storage loss minimization techniques | To impart training to develop knowledge on manufacture of low cost technology storage of grains. | 2 | 3 | 8 | 10 | 12 | 32 |
| Value addition | To impart training to develop knowledge on mushroom cultivation. | 1 | 3 | 8 | 9 | 13 | 30 |
| House hold food security by kitchen and nutritional gardening. | To impart training to develop knowledge on nutritional garden. | 1 | 3 | 10 | 6 | 14 | 30 |
| Income generation activities for empowerment of rural women. | To impart training to develop knowledge on activities for empowerment of rural women | 1 | 3 | 10 | 6 | 10 | 26 |
| Total |  | 5 | 12 | 36 | 31 | 49 | 118 |
| g) Agril. Engineering | | | | | | | |
| Installation and maintenance of micro irrigation systems | To impart training to develop knowledge on Installation and maintenance of micro irrigation systems. | 1 | 3 | 5 | 9 | 14 | 28 |
| Small scale processing and value | To impart training to develop knowledge on use of improves harvesting implements for economically harvest of crops. | 1 | 3 | 6 | 8 | 14 | 30 |
| Post Harvest Technology | To impart training to develop knowledge on suitable method of grain storage. | 2 | 3 | 8 | 10 | 12 | 32 |
| Operation and maintenance of wheat thresher | To impart knowledge about operation and maintenance of wheat thresher | 2 | 3 | 8 | 12 | 12 | 32 |
| Use of zero tillage seed cum fertilizer drill for earliness in wheat sowing | To impart knowledge about zero tillage seed cum fertilizer drill . | 1 | 3 | 7 | 9 | 12 | 28 |
| Care and maintenance of diesel engine | To Create awareness about maintenance and repair of diesel engine | 1 | 3 | 8 | 10 | 10 | 30 |
| Total |  | 8 | 36 | 42 | 58 | 74 | 180 |
| h) Plant Protection | | | | | | | |
| Integrated pest Management | To impart training to develop knowledge on Integrated pest Management. | 1 | 3 | 8 | 8 | 12 | 28 |
| Integrated Disease Management | To impart training to develop knowledge on Integrated Disease Management. | 2 | 3 | 10 | 8 | 14 | 32 |
| Production of bio control agents and bio pesticides | To impart training to develop knowledge on Production of bio control agents and bio pesticides. | 1 | 3 | 8 | 8 | 14 | 30 |
| Total |  | 4 | 9 | 26 | 24 | 40 | 90 |
| j) Capacity Building and Group Dynamics | | | | | | | |
| Formation and Management of SHGs | To impart training to develop knowledge on Formation and Management of SHGs. | 1 | 3 | 10 | 6 | 14 | 30 |
| Integrated Farming Systems | To impart training to develop knowledge on Integrated Farming Systems. | 1 | 3 | 8 | 10 | 12 | 30 |
| Total |  | 2 | 6 | 18 | 16 | 26 | 60 |

1. Rural youths

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Thematic Area\* | Title | No of courses | Duration | No. of participants | | | |
| SC | ST | Others | Total |
| Mushroom  Production | To impart training to develop skill on Mushroom Production | 1 | 5 | 8 | 11 | 11 | 30 |
| Seed production | To impart training to develop skill on seed production of rice. | 1 | 5 | 8 | 12 | 10 | 30 |
| Production of organic inputs | To impart training to develop skill on integrated nutrient management (INM) in rice. | 1 | 5 | 8 | 8 | 14 | 30 |
| Integrated Farming | To impart training to develop skill on Integrated Farming. | 1 | 5 | 7 | 6 | 15 | 28 |
| Vermi-culture | To impart training to develop skill on Vermi-culture. | 1 | 5 | 8 | 6 | 16 | 30 |
| Repair and maintenance of farm machinery and implements | To impart training to develop skill on Repair and maintenance of farm machinery and implements. | 2 | 5 | 10 | 6 | 16 | 32 |
| Nursery Management of Horticulture crops | To impart training to develop skill on Nursery Management of Horticulture crops. | 1 | 5 | 6 | 10 | 14 | 30 |
| Training and pruning of orchards | To impart training to develop skill on Training and pruning of orchards. | 1 | 4 | 10 | 6 | 12 | 28 |
| Post Harvest Technology | To impart training to develop skill on Post Harvest Technology for kharif and rabi crop. | 1 | 4 | 9 | 5 | 11 | 25 |
| Tailoring and Stitching | To impart training to develop skill on Tailoring and Stitching for self employment. | 1 | 4 | 6 | 6 | 18 | 30 |
| Rural Crafts | To impart training to develop skill on Rural Crafts. | 1 | 5 | 8 | 5 | 13 | 26 |
| Repair and maintenance of small diesel engine and pump set | To generate income through repair and maintenance of diesel engine and pump set | 1 | 5 | 10 | 5 | 15 | 30 |
| Repair and maintenance of thresher and different sprayers | To generate income through repair and maintenance and opening of workshop for agri. Implements | 1 | 5 | 10 | 4 | 16 | 30 |
| Total |  | 14 | 62 | 108 | 90 | 181 | 379 |

1. Extension functionaries

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Thematic Area\* | Title | No. of courses | Duration | No. of participants | | | |
| SC | ST | Others | Total |
| Productivity enhancement in field crops | To impart training to develop knowledge on field crops | 1 | 2 | 10 | 3 | 15 | 28 |
| Integrated Pest Management | Impart training to refresh their knowledge on IPM in vegetable production. | 1 | 2 | 11 | 8 | 11 | 30 |
| Integrated Nutrient management | Impart training to refresh their knowledge on INM in oilseed and pulses production. | 1 | 2 | 10 | 8 | 12 | 30 |
| Rejuvenation of old orchards | Impart training to refresh their knowledge on Rejuvenation of old orchards. | 2 | 2 | 8 | 7 | 17 | 32 |
| Protected cultivation technology | Impart training to refresh knowledge on Protected cultivation technology for sustainable crop production. | 1 | 2 | 10 | 8 | 12 | 30 |
| Information networking among farmers | Impart training to refresh knowledge on Information networking among farmers | 2 | 2 | 8 | 8 | 16 | 32 |
| Low cost and nutrient efficient diet designing | Impart training to refresh knowledge on Low cost nutrient diet designing. | 2 | 2 | 8 | 10 | 14 | 32 |
| Production and use of organic inputs | Impart training to refresh knowledge on Production and use of organic inputs. | 1 | 2 | 10 | 8 | 8 | 26 |
| Tapping of non conventional source of energy | To create awareness about solar photo voltaic system and Bio- gas plant | 1 | 2 | 16 | 4 | 6 | 26 |
| Total |  | 12 | 18 | 91 | 64 | 110 | 265 |

1. Farmers and farmwomen

(OFF - CAMPUS)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thematic Area | Title | No. of courses | Duration | No. of participants | | | | |
| SC | ST | Others | | Total |
| a)Crop production | | | | | | | | |
| Cropping Systems | To impart training to develop knowledge on Cropping system of Kharif crops. | 2 | 1 | 20 | 16 | | 22 | 58 |
| Integrated Farming | To impart training to develop knowledge on integrated farming system. | 1 | 1 | 6 | 9 | | 11 | 26 |
| Water management | To impart training to develop knowledge on rain water harvesting for recycling the same for life saving irrigation in crops. | 2 | 1 | 14 | 20 | | 24 | 58 |
| Seed production | To impart training to develop knowledge on improved method of raising rice seedling | 1 | 1 | 10 | 3 | | 12 | 25 |
| Nursery management | To impart training to develop knowledge on management of nursery development. | 3 | 1 | 16 | 22 | | 26 | 64 |
| Integrated Crop Management | To impart training to develop knowledge on integrated crop management in rabi season. | 2 | 1 | 8 | 11 | | 13 | 32 |
| Total |  | 11 | 6 | 74 | 81 | | 108 | 263 |
| b) Vegetable Crop | | | | | | | | |
| Production of low value and high volume crop | To impart training to develop knowledge on improved technique of seed bed preparation for healthy seedling production. | 2 | 1 | 8 | 12 | 12 | | 32 |
| Training and Pruning | To impart training to develop knowledge on development of nutritional garden for fresh vegetable. | 2 | 1 | 20 | 22 | 18 | | 60 |
| Integrated nutrient management | To impart training to develop knowledge on nutrient management | 2 | 1 | 16 | 20 | 24 | | 60 |
| Total |  | 6 | 3 | 44 | 54 | 54 | | 151 |
| c) Fruit | | | | | | | | |
| Cultivation of Fruit | To impart training to develop knowledge on development of cultivation of fruits plants. | 3 | 1 | 18 | 24 | 20 | | 62 |
| Rejuvenation of old orchards | To impart training to develop knowledge on Rejuvenation of old orchards | 2 | 1 | 8 | 10 | 14 | | 32 |
| Micro irrigation systems of orchards | To impart training to develop knowledge on Micro irrigation systems of new and old orchards. | 2 | 1 | 16 | 16 | 24 | | 56 |
| Total |  | 7 | 3 | 42 | 50 | 58 | | 150 |
| d) Medicinal and Aromatic Plants | | | | | | | | |
| Nursery management technology | To impart training to develop knowledge on Nursery management technology. | 1 | 1 | 9 | 7 | 14 | | 28 |
| Total |  | 1 | 1 | 9 | 7 | 14 | | 28 |
| e) soil Health and Fertility Management | | | | | | | | |
| Soil and water Conservation | To impart training to develop knowledge on Soil and water Conservation for better production. | 1 | 1 | 6 | 12 | 12 | | 30 |
| Integrated Nutrient Management | To impart training to develop knowledge on Integrated Nutrient Management. | 1 | 1 | 11 | 6 | 4 | | 21 |
| Production and use of organic inputs | To impart training to develop knowledge on Production and use of organic inputs. | 1 | 1 | 9 | 10 | 11 | | 30 |
| Soil and water testing | To impart training to develop knowledge on Soil and water testing. | 2 | 1 | 10 | 10 | 14 | | 34 |
| Total |  | 5 | 4 | 36 | 38 | 41 | | 115 |
| f) Livestock Production and Management | | | | | | | | |
| Piggery Management | To impart training to develop knowledge on Piggery Management. | 1 | 1 | 6 | 11 | 12 | | 29 |
| Disease Management | To impart training to develop knowledge on Disease Management. | 1 | 1 | 8 | 9 | 11 | | 28 |
| Total |  | 2 | 2 | 14 | 20 | 23 | | 57 |
| g) Home Science/Women empowerment | | | | | | | | |
| Storage loss minimization techniques | To impart training to develop knowledge on manufacture of low cost technology storage of grains. | 1 | 1 | 9 | 7 | 14 | | 30 |
| Value addition | To impart training to develop knowledge on mushroom cultivation. | 1 | 1 | 9 | 9 | 10 | | 28 |
| House hold food security by kitchen and nutritional gardening. | To impart training to develop knowledge on nutritional garden. | 1 | 1 | 7 | 9 | 14 | | 30 |
| Total |  | 3 | 3 | 25 | 25 | 38 | | 88 |
| h) Agril. Engineering | | | | | | | | |
| Installation and maintenance of micro irrigation systems | To impart training to develop knowledge on Installation and maintenance of micro irrigation systems. | 1 | 1 | 8 | 10 | 12 | | 30 |
| Small scale processing and value | To impart training to develop knowledge on use of improves harvesting implements for economically harvest of crops. | 2 | 1 | 20 | 16 | 20 | | 56 |
| Post Harvest Technology | To impart training to develop knowledge on suitable method of grain storage. | 1 | 1 | 8 | 8 | 13 | | 29 |
| Land leveling for better crop production | To impart knowledge to improve water use efficiency | 2 | 1 | 14 | 16 | 30 | | 60 |
| Use of low cost poly house | To create awareness about growing of season vegetable and Nursery | 1 | 1 | 9 | 9 | 12 | | 30 |
| Total |  | 7 | 5 | 59 | 59 | 87 | | 205 |
| i) Plant Protection |  |  |  |  |  |  | |  |
| Integrated pest Management | To impart training to develop knowledge on Integrated pest Management. | 2 | 1 | 16 | 16 | 28 | | 60 |
| Integrated Disease Management | To impart training to develop knowledge on Integrated Disease Management. | 1 | 1 | 6 | 10 | 14 | | 30 |
| Production of bio control agents and bio pesticides | To impart training to develop knowledge on Production of bio control agents and bio pesticides. | 2 | 1 | 16 | 22 | 26 | | 64 |
| Total |  | 5 | 3 | 38 | 48 | 68 | | 154 |
| k) Capacity Building and Group Dynamics | | | | | | | | |
| Formation and Management of SHGs | To impart training to develop knowledge on Formation and Management of SHGs. | 2 | 1 | 10 | 22 | 28 | | 60 |
| Nursery management | To impart training to develop knowledge on Nursery management. | 1 | 1 | 8 | 6 | 14 | | 28 |
| Integrated Farming Systems | To impart training to develop knowledge on Integrated Farming Systems. | 2 | 1 | 12 | 16 | 28 | | 60 |
| Total |  | 5 | 3 | 30 | 44 | 70 | | 148 |

Farmers and farmwomen

(ON CAPMUS)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Thematic Area\* | No of courses | Duration | No. of participants | | | |
| SC | ST | Others | Total |
| Crop production | 8 | 20 | 53 | 71 | 88 | 212 |
| Vegetable Crop | 3 | 5 | 20 | 20 | 22 | 62 |
| Fruit | 4 | 9 | 25 | 35 | 33 | 93 |
| Medicinal and Aromatic Plants | 1 | 1 | 9 | 7 | 14 | 28 |
| Soil Health and Fertility | 7 | 12 | 36 | 39 | 52 | 127 |
| Livestock Production and Management | 4 | 6 | 18 | 20 | 27 | 65 |
| Home Science/Women empowerment | 5 | 12 | 36 | 31 | 49 | 118 |
| Agril. Engineering | 8 | 36 | 42 | 58 | 74 | 180 |
| Plant Protection | 4 | 9 | 26 | 24 | 40 | 90 |
| Capacity Building and Group Dynamics | 5 | 3 | 30 | 44 | 70 | 148 |
| Total | 49 | 113 | 295 | 349 | 469 | 1123 |
| Rural Youths | | | | | | |
| Total | 14 | 62 | 108 | 90 | 181 | 379 |
| Extension functionaries | | | | | | |
| Total | 12 | 18 | 91 | 64 | 110 | 265 |
| G. Total | 75 | 193 | 494 | 503 | 760 | 1767 |

Farmers and farmwomen

(OFF CAPMUS)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Thematic Area\* | No. of courses | Duration | No. of participants | | | |
| SC | ST | Others | Total |
| Crop production | 11 | 6 | 74 | 81 | 108 | 263 |
| Vegetable Crop | 6 | 3 | 44 | 54 | 54 | 151 |
| Fruit | 7 | 3 | 42 | 50 | 58 | 150 |
| Medicinal and Aromatic Plants | 1 | 1 | 9 | 7 | 14 | 28 |
| soil Health and Fertility | 5 | 4 | 36 | 38 | 41 | 115 |
| Livestock Production and Management | 2 | 2 | 14 | 20 | 23 | 57 |
| Home Science/Women empowerment | 3 | 3 | 25 | 25 | 38 | 88 |
| Agril. Engineering | 7 | 5 | 59 | 59 | 87 | 205 |
| Plant Protection | 5 | 3 | 38 | 48 | 68 | 154 |
| Capacity Building and Group Dynamics | 5 | 3 | 30 | 44 | 70 | 148 |
| Total | 52 | 33 | 371 | 426 | 561 | 1359 |

## Details of FLD for 2018 -19 (Proposed)

## A. Oil Seeds

1. Niger

|  |  |  |
| --- | --- | --- |
| Sl. No. | Components | Description |
| 1 | Seasons | Kharif 2018 |
| 2 | Zone | Western Plateau zone v |
| 3 | Crop | Niger |
| 4 | Variety | Birsa Niger 2 |
| 5 | Source of seed | BAU, Ranchi |
| 6 | Farming Situation | Rain fed |
| 7 | Land type | Upland, sandy loam |
| 8 | Proposed area of demonstration | 10 ha |
| 9 | Sowing time | August-September |
| 10 | Proposed block of demonstration | Medaninagar, Bishrampur, Patan, Chainpur, Lesaliganj, Chhatterpur, Satabarwa. |
| 11 | No. of demonstration | 25 |
| 12 | No. of training | 2 |
| 13 | Extension activities   1. No. of field days 2. No. of farmers meeting 3. No. of scientists visit | 2  2  5 |
| 14. | Cost of Demonstration (Rs./ ha) | Rs. 50000 / ha. |

1. Mustard

|  |  |  |
| --- | --- | --- |
| Sl. No. | Components | Description |
| 1 | Seasons | Rabi 2018-19 |
| 2 | Zone | Western Plateau zone v |
| 3 | Crop | Mustard |
| 4 | Variety | Pusa Mahak (JD 6) |
| 5 | Source of seed | BAU, Ranchi |
| 6 | Farming Situation | Irrigated |
| 7 | Land type | Medium land |
| 8 | Proposed area of demonstration | 10 ha |
| 9 | Sowing time | October – Nov. |
| 10 | Proposed block of demonstration | Bishrampur, Husenabad, Patan, Chainpur, Lesaliganj, Chhatterpur, Satabarwa, Medaninagar, |
| 11 | No. of demonstration | 20 |
| 12 | No. of training | 3 |
| 13 | Extension activities   1. No. of field days 2. No. of farmers meeting 3. No. of scientists visit | 2  2  5 |
| 14. | Cost of Demonstration (Rs./ ha) | Rs. 5000.00 /ha. |

1. Linseed

|  |  |  |
| --- | --- | --- |
| Sl. No. | Components | Description |
| 1 | Seasons | Rabi 2018-19 |
| 2 | Zone | Western Plateau zone v |
| 3 | Crop | Linseed |
| 4 | Variety | Sharda |
| 5 | Source of seed | BAU, Ranchi / Other reputed Institutes |
| 6 | Farming Situation | Rainfed / Partially irrigated |
| 7 | Land type | Medium land |
| 8 | Proposed area of demonstration | 10 ha |
| 9 | Sowing time | October – Nov. |
| 10 | Proposed block of demonstration | Bishrampur, Patan, Lesaliganj, Chainpur, Chhatterpur, Satabarwa, Medaninagar |
| 11 | No. of demonstration | 20 |
| 12 | No. of training | 2 |
| 13 | Extension activities   1. No. of field days 2. No. of farmers meeting 3. No. of scientists visit | 2  2  5 |
| 14. | Cost of Demonstration (Rs./ ha) | Rs. 5000.00 /ha. |

## B. Pulses Crops

1. Red Gram:

|  |  |  |
| --- | --- | --- |
| Sl. No. | Components | Description |
| 1 | Seasons | Kharif, 2018 |
| 2 | Zone | Western Plateau zone v |
| 3 | Crop | Red Gram (Pigeon pea) |
| 4 | Variety | Narendra Arhar-2/  IPCL - 87119 |
| 5 | Source of seed | BAU, Ranchi / Kanpur / Other reputed Institutes |
| 6 | Farming Situation | Rain fed |
| 7 | Land type | Upland/ Medium land |
| 8 | Proposed area of demonstration | 10 ha |
| 9 | Sowing time | June –July |
| 10 | Proposed block of demonstration | Bishrampur, Patan, Lesaliganj, Chainpur, Chhatterpur, Satabarwa, Medaninagar |
| 11 | No. of demonstration | 25 |
| 12 | No. of training | 2 |
| 13 | Extension activities   1. No. of field days 2. No. of farmers meeting 3. No. of scientists visit | 2  2  5 |
| 14. | Cost of Demonstration (Rs./ ha) | Rs. 5000 /ha. |

2. Horse gram

|  |  |  |
| --- | --- | --- |
| Sl. No. | Components | Description |
| 1 | Seasons | Kharif ,2018 |
| 2 | Zone | Western Plateau zone v |
| 3 | Crop | Horse Gram (Kulthi) |
| 4 | Variety | Paiyur –2 |
| 5 | Source of seed | BAU, Ranchi / Other reputed Institutes |
| 6 | Farming Situation | Rain fed |
| 7 | Land type | Upland, sandy loam |
| 8 | Proposed area of demonstration | 10 ha |
| 9 | Sowing time | August – Sept. |
| 10 | Proposed block of demonstration | Bishrampur, Patan, Lesaliganj, Chainpur, Chhatterpur, Satabarwa, Medaninagar |
| 11 | No. of demonstration | 25 |
| 12 | No. of training | 2 |
| 13 | Extension activities   1. No. of field days 2. No. of farmers meeting 3. No. of scientists visit | 2  2  5 |
| 14. | Cost of Demonstration (Rs./ ha) | Rs. 5000 / ha. |

1. Chickpea (Gram)

|  |  |  |
| --- | --- | --- |
| Sl. No. | Components | Description |
| 1 | Seasons | Rabi ,2018 -19 |
| 2 | Zone | Western Plateau zone v |
| 3 | Crop | Chick pea (gram) |
| 4 | Variety | Jaki -9218 |
| 5 | Source of seed | BAU, Ranchi / Kanpur / Other reputed Institutes |
| 6 | Farming Situation | Rain fed / partially irrigated |
| 7 | Land type | Medium land |
| 8 | Proposed area of demonstration | 10 ha |
| 9 | Sowing time | Oct. – Nov. |
| 10 | Proposed block of demonstration | Bishrampur, Patan, Lesaliganj, Satabarwa, Medaninagar |
| 11 | No. of demonstration | 25 |
| 12 | No. of training | 2 |
| 13 | Extension activities   1. No. of field days 2. No. of farmers meeting 3. No. of scientists visit | 2  2  5 |
| 14. | Cost of Demonstration (Rs./ ha) | Rs. 5000 / ha. |

1. Lentil

|  |  |  |
| --- | --- | --- |
| Sl. No. | Components | Description |
| 1 | Seasons | Rabi ,2018 -19 |
| 2 | Zone | Western Plateau zone v |
| 3 | Crop | Lentil |
| 4 | Variety | PL-639 /PL406 |
| 5 | Source of seed | BAU, Ranchi/ Other reputed Institutes |
| 6 | Farming Situation | Rain fed / Partially irrigated |
| 7 | Land type | Medium land |
| 8 | Proposed area of demonstration | 10 ha |
| 9 | Sowing time | Oct. – Nov. |
| 10 | Proposed block of demonstration | Bishrampur, Patan, Chainpur, Satabarwa, Medaninagar, Lesaliganj |
| 11 | No. of demonstration | 25 |
| 12 | No. of training | 2 |
| 13 | Extension activities   1. No. of field days 2. No. of farmers meeting 3. No. of scientists visit | 2  2  5 |
| 14. | Cost of Demonstration (Rs./ ha) | Rs. 5000/ ha. |

1. Green gram (summer)

|  |  |  |
| --- | --- | --- |
| Sl. No. | Components | Description |
| 1 | Seasons | Summer, 2019 |
| 2 | Zone | Western Plateau zone v |
| 3 | Crop | Green gram |
| 4 | Variety | SML 668 |
| 5 | Source of seed | BAU, Ranchi |
| 6 | Farming Situation | Irrigated |
| 7 | Land type | Medium land |
| 8 | Proposed area of demonstration | 15 ha |
| 9 | Sowing time | Feb.- March |
| 10 | Proposed block of demonstration | Bishrampur, Patan, Lesaliganj, Satabarwa, Medaninagar, Hariharganj |
| 11 | No. of demonstration | 40 |
| 12 | No. of training | 3 |
| 13 | Extension activities   1. No. of field days 2. No. of farmers meeting 3. No. of scientists visit | 2  3  5 |
| 14. | Cost of Demonstration (Rs./ ha) | Rs. 5000 / ha. |

## C. Other than oilseeds and pulses

C1. Cereals

1. Maize

|  |  |  |
| --- | --- | --- |
| Sl. No. | Components | Description |
| 1 | Seasons | Kharif, 2018 |
| 2 | Zone | Western Plateau zone v |
| 3 | Crop | Maize |
| 4 | Variety | Birsa Makka-2 |
| 5 | Source of seed | BAU, Ranchi / Other reputed Institutes |
| 6 | Farming Situation | Rainfed / Partially irrigated |
| 7 | Land type | Upland sandy clay loam |
| 8 | Proposed area of demonstration | 15 ha |
| 9 | Sowing time | June-July |
| 10 | Proposed block of demonstration | Bishrampur, Patan, Lesaliganj, Chainpur, Satabarwa, Medaninagar, Chhatterpur |
| 11 | No. of demonstration | 50 |
| 12 | No. of training | 3 |
| 13 | Extension activities   1. No. of field days 2. No. of farmers meeting 3. No. of scientists visit | 2  3  5 |
| 14. | Cost of Demonstration (Rs./ ha) | Rs. 5000 / ha. |

C1. Coarse crop

1. Ragi

|  |  |  |
| --- | --- | --- |
| Sl. No. | Components | Description |
| 1 | Seasons | Kharif, ,2018 |
| 2 | Zone | Western Plateau zone v |
| 3 | Crop | Ragi |
| 4 | Variety | BM-1 |
| 5 | Source of seed | BAU, Ranchi / Other reputed Institutes |
| 6 | Farming Situation | Rainfed / Partially irrigated |
| 7 | Land type | Upland sandy clay loam |
| 8 | Proposed area of demonstration | 5 ha |
| 9 | Sowing time | June-July |
| 10 | Proposed block of demonstration | Bishrampur, Patan, Lesaliganj, Chainpur, Satabarwa, Medaninagar, Chhatterpur |
| 11 | No. of demonstration | 25 |
| 12 | No. of training | 3 |
| 13 | Extension activities   1. No. of field days 2. No. of farmers meeting 3. No. of scientists visit | 2  3  5 |
| 14. | Cost of Demonstration (Rs./ ha) | Rs. 5000 / ha. |

## C. Animal Husbandry

1. Goat

|  |  |  |
| --- | --- | --- |
| Sl. No. | Components | Description |
| 1 | Seasons | Round the year (2018 -19) |
| 2 | Zone | Western Plateau zone v |
| 3 | Crop | Goat |
| 4 | Variety | Black Bengal /Beetal cross Breed |
| 5 | Source of seed | BAU, Ranchi |
| 6 | Farming Situation | Upland |
| 7 | Land type | - |
| 8 | Proposed area of demonstration | 5 |
| 9 | Sowing time | Round the year |
| 10 | Proposed block of demonstration | Bishrampur, Chainpur, Medaninagar, Satbarwa., Chhattarpur, Lesaliganj |
| 11 | No. of demonstration | 5 |
| 12 | No. of training | 1 |
| 13 | Extension activities   1. No. of field days 2. No. of farmers meeting 3. No. of scientists visit | 2  2  5 |
| 14. | Cost of Demonstration (Rs./ ha) | Rs. 3000 / each |

2. Pig (T & D)

|  |  |  |
| --- | --- | --- |
| Sl. No. | Components | Description |
| 1 | Seasons | Round the year (2018 -19) |
| 2 | Zone | Western Plateau zone v |
| 3 | Crop | Pig |
| 4 | Variety | T X D(Tamworth X Desi) |
| 5 | Source of seed | BAU, Ranchi |
| 6 | Farming Situation | - |
| 7 | Land type | - |
| 8 | Proposed area of demonstration | 5 (each unit of one male + 4 female) |
| 9 | Sowing time | - |
| 10 | Proposed block of demonstration | Bishrampur, Chainpur, Medaninagar, Patan., Chhattarpur, Lesaliganj |
| 11 | No. of demonstration | 5 |
| 12 | No. of training | 1 |
| 13 | Extension activities   1. No. of field days 2. No. of farmers meeting 3. No. of scientists visit | 2  2  5 |
| 14. | Cost of Demonstration (Rs./ ha) | Rs. 6000 / unit |

Agriculture Engineering:

1. Tubular hand maize Sheller

|  |  |  |
| --- | --- | --- |
| Sl. No. | Components | Description |
| 1 | Seasons | Around the year (2018 -19) |
| 2 | Zone | Western Plateau zone v |
| 3 | Crop | Maize |
| 4 | Variety | - |
| 5 | Source of seed | BAU, Ranchi / Other reputed Company |
| 6 | Farming Situation | - |
| 7 | Land type | Upland sandy clay loam |
| 8 | Proposed area of demonstration | 100 Unit |
| 9 | Sowing time | - |
| 10 | Proposed block of demonstration | Bishrampur, Patan, Lesaliganj, Chainpur, Satabarwa, Medaninagar, Chhatterpur |
| 11 | No. of demonstration | 100 |
| 12 | No. of training | 3 |
| 13 | Extension activities   1. No. of field days 2. No. of farmers meeting 3. No. of scientists visit | 2  3  5 |
| 14. | Cost of Demonstration (Rs./ ha) | Rs. 250 /Unit |

## 

## 2. Naveen Sickle :

|  |  |  |
| --- | --- | --- |
| Sl. No. | Components | Description |
| 1 | Seasons | Around the year (2018 -19) |
| 2 | Zone | Western Plateau zone v |
| 3 | Crop | - |
| 4 | Variety | - |
| 5 | Source of seed | BAU, Ranchi / Other reputed Company |
| 6 | Farming Situation | - |
| 7 | Land type | Upland sandy clay loam |
| 8 | Proposed area of demonstration | 100 Unit |
| 9 | Sowing time | - |
| 10 | Proposed block of demonstration | Bishrampur, Patan, Lesaliganj, Chainpur, Satabarwa, Medaninagar, Chhatterpur |
| 11 | No. of demonstration | 100 |
| 12 | No. of training | 3 |
| 13 | Extension activities   1. No. of field days 2. No. of farmers meeting 3. No. of scientists visit | 2  3  5 |
| 14. | Cost of Demonstration (Rs./ ha) | Rs. 300 /Unit |

## Miscellaneous

1. Lac

|  |  |  |
| --- | --- | --- |
| Sl. No. | Components | Description |
| 1 | Seasons | Kharif and Rabi both (2018 -19) |
| 2 | Zone | Western Plateau zone v |
| 3 | Crop | Lac |
| 4 | Variety | Kusmi & Ranginee |
| 5 | Source of seed | IINRG, Namkum, Ranchi |
| 6 | Farming Situation | Rainfed |
| 7 | Land type | Ber, Palas |
| 8 | Proposed area of demonstration | 200 trees |
| 9 | Sowing time | July – Nov. & Feb. |
| 10 | Proposed block of demonstration | Satabarwa, Lesaliganj, Patan, Bishrampur, Chainpur, |
| 11 | No. of demonstration | 40 |
| 12 | No. of training | 3 |
| 13 | Extension activities   1. No. of field days 2. No. of farmers meeting 3. No. of scientists visit | 3  3  5 |
| 14. | Cost of Demonstration (Rs./ unit) | Rs. 700 /- |

2. Mushroom

|  |  |  |
| --- | --- | --- |
| Sl. No. | Components | Description |
| 1 | Seasons | Round the year (2018 -19) |
| 2 | Zone | Western Plateau zone v |
| 3 | Crop | Mushroom |
| 4 | Variety | Oyster / Button Mushroom |
| 5 | Source of seed | BAU, Ranchi |
| 6 | Farming Situation | - |
| 7 | Land type | - |
| 8 | Proposed area of demonstration | 20 |
| 9 | Sowing time | - |
| 10 | Proposed block of demonstration | Bishrampur, Chainpur, Medaninagar, Patan., Satabarwa, Lesaliganj |
| 11 | No. of demonstration | 20 |
| 12 | No. of training | 2 |
| 13 | Extension activities   1. No. of field days 2. No. of farmers meeting 3. No. of scientists visit | 2  2  4 |
| 14. | Cost of Demonstration (Rs./ ha) | Rs. 500 / unit |

1. Seed and planting material production

A. Preparation of planting material 2018-19 at KVK, Palamu

|  |  |  |
| --- | --- | --- |
| Planting material | Variety | Number |
| Drum stick | Baramasi | 200 |
| Vegetable seedling | Tomato/ Brinjal/ Chilli | 5000 |
| Guava | Allahabad safeda/ L-49 | 500 |
| Papaya | Pusa Dwarf / Pusa Delicious | 1000 |
| Mango | Amrapali | 100 |
| Citrus | Kagzi | 100 |
| Total | | 6900 |

B. Seed production during Kharif 2018 -19 at KVK, Farm:

Kharif

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No. | Place | Crop | Variety | Area (ha) | Programme |
| 1 | KVK, Palamu | Paddy | Navin / Sahbhagi | 1.5 | Seed production |
| 2 | KVK, Palamu | Arhar | NA-2 | 1.3 | Seed production |

Rabi

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No. | Place | Crop | Variety | Area (ha) | Programme |
| 1 | KVK, Palamu | Mustard | Pusa Mahak | 1.5 | Seed production |

1. Extension Activities

|  |  |  |
| --- | --- | --- |
| Activities | No. | Participants |
| Field Day | 7 | 350 |
| Kisan Mela | 2 | 10000 |
| Kisan Ghosthi | 12 | 800 |
| Exhibition | 5 | 500 |
| Kisan Diwas | 5 | 300 |
| Film Show | 12 | 350 |
| Method Demonstrations | 5 | 200 |
| Farmers Seminar | 2 | 200 |
| Workshop | 2 | 200 |
| Group meetings | 5 | 200 |
| Lectures delivered as resource persons | 5 | 150 |
| Newspaper coverage | 10 | Wide coverage |
| Radio talks | 10 | Wide coverage |
| TV talks | 10 | Wide coverage |
| Popular articles | 12 | 1200 |
| Extension Literature | 4 | 400 |
| Advisory Services | 100 | 100 |
| Scientist visit to farmers field | 60 | 500 |
| Farmers visit to KVK | 1000 | 1000 |
| Diagnostic visits | 100 | 100 |
| Exposure visits | 5 | 200 |
| Ex-trainees Sammelan | 2 | 100 |
| Soil health Camp | 2 | 100 |
| Animal Health Camp | 1 | 100 |
| Agri mobile clinic | 12 | 500 |
| Total | 1390 | 17550 |

1. OFT on Potato

* + 1. Thematic Area: NRM
    2. Title: Assessment of fungicides to manage Late blight disease of Potato (Phytopthora infestence).
    3. Problem diagnose: Potato covers an extensive area of upland and medium land of the districts during rabi season. Farmers face a great loss in yield of the crop due to high mortality of the crop (30-50%) caused by Phytopthora infestence particularly at vegetative stage.
    4. Hypothesis: Application of fungicide reduces the late blight disease of Potato and improved the quality of Potato.
    5. Objective: Productivity and profitability of Potato may be increase up to 80% through management of Late blight of Potato.
    6. Production System: Rainfed cultivation based production system.
    7. Source of Technology: BAU, Ranchi.
    8. Technology Options:

TO : Farmer’s practice - Dusting of ash.

TO1 : Seed treatment with Metalaxyl (0.15%)

TO2 : T1 +two spray with Metalaxyl (0.15%)

TO3: T1 +1st spray with Carbendazim (0.2%) and 2nd spray with Metalaxyl

(0.15%)

* + 1. Design: RBD
    2. Plot size : 250 m2
    3. Replication: 10
    4. Critical Input: Carbendazim & Metalaxyl
    5. Observation to be recorded:

1. Incidence of blight disease (%)
2. Yield (q/ha)
3. Benefit cost ratio
   * 1. Farmers reaction:
     2. Feed back:

Experimenter:Dr. Rajiv Kumar

8.OFT on Rice

1. Thematic Area: IDM
2. Title: Assessment of fungicides to manage sheath blight disease of rice.
3. Problem diagnose: Rice covers an extensive area of upland, medium and low land of the district during kharif. Farmers face a great loss in yield of the crop due to high mortality of the crop (40-50%) caused by Rhizoctonia solani particularly at vegetative stage.
4. Hypothesis: Application of fungicide may reduce the losses due to sheath blight disease of Rice and improve the quality and yield of Rice.
5. Objective: Productivity and profitability of Rice may be increase up to 80% through management of Sheath Blight of Rice.
6. Production System: Rainfed cultivation based production system (Rice - Wheat system).
7. Source of Technology: BAU, Ranchi.
8. Technology Options:
   1. TO : Farmer’s practice – No spray / dusting of ash.
   2. TO1 : Seed treatment with Carbendazim (0.2%)
   3. TO2 : T1 + Two spray with Mancozeb (0.3%)
   4. TO3 : T1 + Two spray with Propiconazole (0.15%)
   5. TO4 : 1st spray with Carbendazim (0.2%) and 2nd spary with Propiconazole (0.15%)
9. Design: RBD
10. Plot sige : 250 m2
11. Replication: 10
12. Critical Input: Carbendazim, Mancozeb & Propiconazole

13. Observation to be recorded:

1. Incidence of sheath blight disease of rice (%)

2. Grain yield (q/ha)

3. Benefit cost ratio

14. Farmers reaction:

15. Feed back:

Experimenter:Dr.Rajiv Kumar

3.OFT on Value addition in Mushroom

* + - 1. Thematic Area: NRM
      2. Topic: Assessment of mushroom based value added products.
      3. Problem: Malnutrition & unemployment in rural women.
      4. Hypotheses: Use of oyster mushroom which is highly proteinous food.
      5. Objective: To develop and evaluate the mushroom based value added products.
      6. Micro farming situation: Small and marginal rural women.
      7. Production system: Develop highly nutritious value added product from oyster mushroom

8 Treatment:

TO – Farmer’s practice (use fresh mushroom).

TO1- Mushroom pickles / Mushroom sauce

TO2 – Dry Mushroom

1. Design: RBD
2. Replication: 08
3. Critical input: Food item related to OFT
4. Source of technology: DRM, Solan (H.P)
5. Observation to be taken:
   1. Technical indicator:
      1. Analysis of food
      2. Storage period
      3. Acceptability test
   2. Economic indicator:

i. Cost of production (Rs/kg)

ii. BC ratio (Rs/kg)

1. Farmers reaction:
2. Feed back

Experimenter: Smt. Sunita Kumari Kamal

4.OFT on Enrich Ragi Flour

1.Thematic Area: NRM

2.Topic: Assessment of nutritious flour prepared from Ragi staple grains.

3.Problem: Malnutrition among rural areas.

4.Hypothesis: Ragi flour is rich source of iron and calcium than other staple food grains.

5.Objective: To develop and evaluate the Ragi flour and it’s overcome on malnutrition in rural areas.

6.Micro farming situation: Small and marginal rural women.

7.Production system: Enriched malted flour developed from Ragi grains

8.Source of Technology: Food and nutrition Department. RAU, PUSA

(Samastipur )Bihar

9.Treatments:

TO - Farmer’s practice (unprocessed)

TO1 – Malted Ragi flour with sprout wheat (25%+75%)

TO2 – Malted Ragi flour with sprout wheat (75%+25 %)

10.Design: RBD

11.Replication: 7

12.Unit size: 7

13.Critical input: food item related to OFT

(I) Technical indicator:

* + 1. Analysis of food
    2. Storage of food
    3. Acceptability among rural women

(II) Economic indicator:

1. Cast of production (Rs/kg)
2. B:C Ratio (Rs/kg)

14. Farmers reaction:

15.Feed back

Experimenter :Smt Sunita Kumari Kamal

**5. OFT on mulching in Turmeric**

**Thematic Area**: NRM

**Topic:** Effect of mulching on turmeric production**.**

**Problem:** Low Production of turmeric due to moisture stress and weed infestation.

**Hypotheses:** Mulching conserve moisture as well as minimizes weed population.

**Objective:** Efficacy of mulching on production potential of turmeric.

**Micro farming situation:** Medium land Tanr III and Don III. High weed population in turmeric and less availability of irrigation water.

**Production system:** Irrigated vegetable production system.

**Treatment:**

To1- Farmers practice (no use of mulch)

To2- Dry plant leaves mulch – 25 mm thick.

To3- Black Plastic Mulch

To4 – White plastic mulch

1. **Design:** RBD
2. **Replication:** 7
3. **Plot Size:** 25 sqm x 4
4. **Critical input:** Plastic mulch & Seed
5. **Observation to be taken:**
   1. **Technical indicator:**
      1. length of rhizome (cm)
      2. No. of irrigation.
      3. Weed popn/ m2
      4. Yield (q/ha).
   2. **Economic indicator:**

Net return (Rs/ha)

Return/Rupee spent (Rs/Re)

1. **Farmers reaction:**
2. **Feed back**

**Experimenter: Dr. Ashok Kumar Sinha**

**6. OFT On Wheat**

* + - 1. **Thematic Area:** NRM
      2. **Topic:** Assessment of method of wheat sowing.
      3. **Problem:** Improper method and timely sowing of wheat lead to low productivity.
      4. **Hypotheses:** sowing of wheat with suitable method in medium land situation reduce the cost of cultivation and increase productivity.
      5. **Objective:** to find out the suitable method of sowing of wheat for higher production and reducing the cost of cultivation.
      6. **Production system:** Medium land, Rainfed Rice based production system.
      7. **Treatment (Technology options):**

**To1-**Farmer’s practice (Broad casting).

**To2-** Line sowing behind plough.

**To3-** Sowing with zero tillage.

To4-Sowing with SWI method.

**Design:** RBD

* + - 1. **Replication:** 10
      2. **Critical input:** Seed & Diesel for tractor
      3. **Plot Size :** 200 Sqm
      4. **Observation to be taken:**
  1. **Technical indicator:**
     1. Germination per running meter or Sqm
     2. No. of tillers /plant
     3. Weed population /m2
     4. Yield (q/ha)
  2. **Economic indicator:**
     1. Cost of Sowing
     2. Net return (Rs/ha)
     3. Return / Rupee spent

**12.Farmers reaction:**

**Feed back**

**Experimenter: Dr. Ashok Kumar Sinha**

7. OFT on Pea

1. Thematic Area: IDM

1. Title: Assessment of fungicides to manage wilt disease of Pea.
2. Problem: Wilting of Pea is one the major problem in Palamu district cause great

loss in pea production. Culture may reduce the mortality of pea plant and improved the growth and yield of pea

1. Hypothesis: Sowing the seed after seed treatment with fungicide and Rhizobium through management of wilt problem

5 . Objective: Productivity in profitability of pea may be increase upto 80%

6 .Micro-farming situation: Medium land (Tarn III and Done III) rainfed, loamy sand, low in organic matter, poor in N and P content and medium in K content.

7. Production system: Rainfed rice based production system.

8. Source of Technology: Birsa Agricultural University, Ranchi

9. Treatments:

TO - Farmer’s Practice: No treatment

TO1- Soil traetment (Lime@ 4 Q/ha) +Seed treatment withCarbendazim (2gm/ kg seed)

TO2 - Soil traetment (Lime@ 4 Q/ha) + Seed treatment with Trichoderma culture (5gm/ kg seed)

TO3 –lime treament @ 4 Q/ha

10. Design: RBD

11. Plot size: 1 0m x 3 m(30m2 )

12. Replication: 8

13. Critical input: Seeds fertilizer fungicide and rhizobium culture

14. (I) Technical indicator:

* 1. Wilting percentage
  2. Pod yield (q/ha)
  3. Grain yield (q/ha)
  4. Benefit cost ratio

15. Farmers reaction.

16. Feed back. Experimenter: Dr. Ramesh kumar

8. OFT on Cowpea

1. Thematic Area: INM

2. Title: Assessment of nutrients in cowpea production.

3.Problem: Low productivity and profitability in cowpea due to imbalance use of

fertilizer.

4. Hypothesis: balance dosage of N, P, K may enhance the yield of cowpea

5. Objective: productivity and profitability of cowpea may be increase upto 80% through proper nutrient management

6. Micro-farming situation: Medium land (Tarn III and Done III), loamy sand, low in organic matter, poor in N and P content and medium in K content.

7. Production system: wheat based production system.

8. Source of Technology: Birsa Agricultural University, Ranchi

9. Treatments:

To- Farmers Practice: 20:40:0.

To1- Swarn sweta +RDF(40:80:40)

To2 – Swarn sweta +Lime ( 3q/ha)

To3 - Swarn sweta +Lime+ RDF

10. Design: RBD

11. Plot size: 5mx3m

12. Replication: 10

13. Critical input: Improved seed, fertilizer & lime

(I) Technical indicator:

a. Soil test (before and after experimentation)

b. Pod yield (q/ha)

c. Percentage disease and pest infestation

(II) Economic indicator:

1. Net return (Rs./ha.)
2. Return/rupee spent (Rs. / Re)

14. Farmers reaction.

15. Feed back.

Experimenter: Dr.Ramesh kumar