**Annual Action Plan (2018-19)**

**AGRONOMY**

**Detailed of proposed training programmes for practicing farmers/farmer Women**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Discipline** | **Qrt No.& Months** | **Thematic Area&** | **Course Title** | **Duration**  **Course Title (Days)** | **Total No. of Course** | **Participants trainees (Nos)** | | | | | |  |
| **SC/ST** | | **Others** | | **Total** | | **Total** |
| **M** | **W** | **M** | **W** | **M** | **W** |
| **Agronomy** | I .  April 2018to June 2018 | **Soil fertility** | Method of Soil test | **2** | **1** | **5** | **2** | **20** | **3** | **25** | **5** | **30** |
| **Nursery Management** | Different methods of nursery raising of rice | **2** | **1** | **4** | **1** | **21** | **5** | **25** | **6** | **31** |
| **Resource conservation Tech.** | Cultivation Technique of Direct Seeded Rice | **2** | **1** | **4** | **1** | **21** | **5** | **25** | **6** | **31** |
|  | **Production of organic inputs** | Management of vermicompost unit in summer and rainy season | **2** | **1** | **4** | **1** | **21** | **5** | **25** | **6** | **31** |
|  | **Production of organic inputs** | production and use of vermi wash | **2** | **1** | **4** | **1** | **21** | **5** | **25** | **6** | **31** |
| II.  July 2018 to Sept. 2018 | **Weed Management** | Integrated weed management in kharif crops. | **2** | **1** | **4** | **1** | **21** | **5** | **25** | **6** | **31** |
| **Integrated crop Management** | Integrated nutrient management in kharif crops. | **2** | **1** | **4** | **1** | **21** | **5** | **25** | **6** | **31** |
| **Seed Production** | Cultivation technique of pegeonpea. | **2** | **1** | **5** | **2** | **20** | **5** | **25** | **7** | **32** |
| **Seed production** | Cultivation technique of kharif maize | **2** | **1** | **4** | **1** | **21** | **5** | **25** | **6** | **31** |
|  | **Production of organic inputs** | Agril. waste management through vermicomposting | **2** | **1** | **4** | **1** | **21** | **5** | **25** | **6** | **31** |
| **III**  **Oct 2018 to Dec 2018** | **Seed production** | Cultivation technique of wheat | **2** | **1** | **4** | **1** | **21** | **5** | **25** | **6** | **31** |
| **Seed production** | Cultivation technique of rabi pulses | **2** | **1** | **4** | **1** | **21** | **5** | **25** | **6** | **31** |
| **Seed production** | Cultivation technique of oilseeds | **2** | **1** | **5** | **2** | **20** | **5** | **25** | **7** | **32** |
| **Seed production** | Cultivation technique of potato | **2** | **1** | **5** | **2** | **20** | **5** | **25** | **7** | **32** |
|  | **Production of organic inputs** | Farm waste management through vermi composting | **2** | **1** | **5** | **2** | **20** | **5** | **25** | **7** | **32** |
|  | **Production of organic inputs** | Weed based vermi composting | **2** | **1** | **5** | **2** | **20** | **5** | **25** | **7** | **32** |
| **IV**  **Jan 2018 to March 2018** | **Seed production** | Cultivation technique of fodder crops | **2** | **1** | **4** | **1** | **21** | **5** | **25** | **6** | **31** |
| **Integrated crop Management** | Integrated nutrient management in rabi crops | **2** | **1** | **5** | **2** | **20** | **5** | **25** | **7** | **32** |
| **Weed management** | Integrated weed management in rabi crops. | **2** | **1** | **4** | **1** | **21** | **5** | **25** | **6** | **31** |
| **Seed Production** | Cultivation technique of summer moong. | **2** | **1** | **4** | **1** | **21** | **5** | **25** | **6** | **31** |
|  |  | **Production of organic inputs** | Flower based vermi composting | **2** | **1** | **4** | **1** | **21** | **5** | **25** | **6** | **31** |
|  | **Total** |  |  | 42 | 21 | 91 | 28 | 434 | 103 | 525 | 131 | 656 |

**AGRONOMY**

**Details of Proposed Training Programmes for Rural Youth:**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Qrt No.& Months** | **Thematic Area** | **Course Title** | **Duration**  **(Days)** | **Total No. of Course** | **Participants trainees (Nos)** | | | | | |  |
| **SC/ST** | | **Others** | | **Total** | | **Total** |
| **M** | **W** | **M** | **W** | **M** | **W** |  |
| I .  April to 2018  to June 2018 | **Seed Production** | Seed Production Technology in rice | **4** | **1** | **4** | **2** | **21** | **3** | **25** | **5** | **30** |
| **II**  July **2018**  **Sep. 2018** | **Production of Organic Inputs** | Methods of vermicompost production | **4** | **1** | **5** | **2** | **20** | **4** | **25** | **6** | **31** |
| **III**  **Oct 2018 to Dec 2018** | **Integrated Farming** | Cultivation of aromatic and medicinal Plant | **4** | **1** | **4** | **2** | **22** | **4** | **26** | **6** | **32** |
| **Seed Production** | Quality seed Grower | **30** | **1** | **5** | **0** | **25** | **0** | **30** | **0** | **30** |
| **IV**  **Jan 2018 to March 2018** | **Seed Production** | Seed Production Technology in Wheat | **4** | **1** | **5** | **3** | **20** | **2** | **25** | **5** | **30** |
|  | **Production of Organic Inputs** | Production techniques and uses of vermicomposting | **4** | **1** | **5** | **3** | **20** | **2** | **25** | **5** | **30** |
| **Total** |  |  | 20 | 5 | 23 | 12 | 103 | 15 | 126 | 27 | 153 |

**AGRONOMY**

**Details of Proposed Training Programmes for Extension Functionaries**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Discipline** | **Qrt No.& Months** | **Thematic Area** | **Course Title** | **Duration**  **(Days)** | **Total No. of Course** | **Participants trainees (Nos)** | | | | | |  |
| **SC/ST** | | **Others** | | **Total** | | **Total** |
| **M** | **W** | **M** | **W** | **M** | **W** |  |
| **Agronomy** | I .  April to 2018  to June 2018 | **Production and use of organic inputs** | Production of vermicompost | **1** | **1** | **6** | **2** | **21** | **3** | **27** | **5** | **32** |
| **II**  July **2018 to**  **Sep. 2018** | **Integrated Nutrient Management** | I.N.M. for sustainable crop production | **1** | **1** | **6** | **2** | **20** | **4** | **26** | **6** | **32** |
| **III**  **Oct 2018 to Dec 2018** | **Productivity enhancement in field crops** | Integrated Weed Management in Rabi crops | **1** | **1** | **6** | **2** | **19** | **3** | 25 | **5** | **30** |
|  | **IV**  **Jan 2018 to March 2018** | **Productivity enhancement in field crops** | Advances in Rabi crops | **1** | **1** | **6** | **1** | **20** | **3** | **26** | **4** | **30** |
|  | **Total** |  |  | **4** | **4** | **24** | **7** | **80** | **13** | 104 | **30** | **124** |

**Entomology**

**Details of Proposed Training Programme for Practicing Farmers/ Farm Women (April, 2018 to March, 2019)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Discipline** | **Qrt. No.**  **& Months** | **Thematic Area &**  **Course Title** | **Course Object** | **Duration**  **(Days)** | **Total no. of course** | **Venue**  **Off/on**  **Campus** | **Participants Trainees (Nos.)** | | | | | |
| **SC/ST** | | **Others** | | **Total** | |
| **M** | **W** | **M** | **W** | **M** | **W** |
| **Entomologys** | **I**  **April 2018 to June 2018** | **Management of Insect pests and Diseases of summer vegetables** | **To develop knowledge for healthy crop production for higher yield** | **1** | **1** | **ON/OFF** | **3** | **1** | **15** | **1** | **18** | **2** |
| **Management of Insect pests and mosaic virus of Moong, Urd and Okra** | **To develop knowledge for disease free quality crop production** | **2** | **1** | **OFF** | **3** | **1** | **15** | **1** | **18** | **2** |
| **Management of store grain pests** | **To save the grain during storage** | **2** | **1** | **ON** | **3** | **1** | **15** | **1** | **18** | **2** |
| **IPM and IDM for rice cultivation**  **(Nursery stage)** | **To develop knowledge for disease free quality crop production** | **1** | **2** | **ON/off** | **3** | **1** | **15** | **1** | **18** | **2** |
| **II**  **July 2018 to September 2018** | **Management of Insect pests and Diseases of Paddy** | **-do-** | **2** | **2** | **ON/ off** | **3** | **1** | **15** | **1** | **18** | **2** |
| **Management of Insect pests and Diseases of Kharif oilseeds and pulses** | **-do-** | **2** | **1** | **ON** | **3** | **1** | **15** | **1** | **18** | **2** |
| **Management of Insect pests and Diseases of Kharif vegitables** | **-do-** | **2** | **1** | **OFF** | **3** | **1** | **15** | **1** | **18** | **2** |
| **III**  **Oct 2018 to Dec 2018** | **Seed treatments in rabi crops** | **-do-** | **2** | **1** | **ON** | **3** | **1** | **15** | **1** | **18** | **2** |
| **Wilt management in Lantil and chickpea crop** | **-do-** | **2** | **1** | **off** | **3** | **1** | **15** | **1** | **18** | **2** |
| **Integrated pest management in vegetable crops** | **To develop knowledge and skill for healthy crop production** | **2** | **1** | **ON** | **3** | **1** | **15** | **1** | **18** | **2** |
| **Management of aphid in mustard and wheat crop** | **-do-** | **2** | **1** | **ON** | **3** | **1** | **15** | **1** | **18** | **2** |
| **Management of early and late blight of potato** | **-do-** | **2** | **1** | **ON/off** | **3** | **1** | **15** | **1** | **18** | **2** |
| **Seed treatment in rabi pulses** | **-do-** | **2** | **1** | **ON** | **3** | **1** | **15** | **1** | **18** | **2** |
| **IV**  **Jan 2019 to March 2019** | **Integrated pest management in vegetable crops** | **-do-** | **2** | **1** | **ON** | **3** | **1** | **15** | **1** | **18** | **2** |
| **Management of *Helicoverpa* in chichpea** | **-do-** | **2** | **1** | **ON/off** | **3** | **1** | **15** | **1** | **18** | **2** |
| **Management of late blight of potato** | **-do-** | **2** | **1** | **ON** | **3** | **1** | **15** | **1** | **18** | **2** |
| **Management of Insect pests and mosaic virus of Moong, Urd and Okra** | **-do-** | **2** | **1** | **OFF** | **3** | **1** | **15** | **1** | **18** | **2** |
|  | **Total** |  |  | 32 | 19 |  | 51 | 17 | 255 | 17 | 306 | 34 |

**Details of Proposed Training Programmes for Rural Youths (April, 2018 to March, 2019)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Discipline** | **Qrt. No.**  **& Months** | **Thematic Area &**  **Course Title** | **Course Object** | **Duration**  **(Days)** | **Total no. of course** | **Venue**  **Off/on**  **Campus** | **Participants Trainees (Nos.)** | | | | | |
| **SC/ST** | | **Others** | | **Total** | |
| **M** | **W** | **M** | **W** | **M** | **W** |
| **Entomology** | **I**  **April 2019 to June 2018** | **Maintenance of plant protection equipments and its precautions** | **To develop skill for handling of equipment safely** | 3 | **1** | **On** | **3** | **1** | **15** | **1** | **18** | **2** |
| **Sustainable Beekeeping** | **For income generation and self employment** | **5** | **1** | **On** | **3** | **1** | **15** | **1** | **18** | **2** |
| **Beekeeper** | **Beekeeper** | **30** | **1** | **on** | **3** | **0** | **27** | **0** | **30** | **0** |
| **II**  **July 2018 to September 2018** | **Production of bio pesticides and their use in different crops** | **To control insect pest and disease eco friendly** | 4 | **1** | **On** | **3** | **1** | **15** | **1** | **18** | **2** |
| **Plant Health Clinic** | **To develop knowledge and skill for for management of insect pests and diseases** | **4** | **1** | **On** | **3** | **1** | **15** | **1** | **18** | **2** |
| **III**  **Oct 2018 to Dec 2018** | **Sustainable Beekeeping** | **For income generation and self employment** | **5** | **1** | **On** | **3** | **1** | **15** | **1** | **18** | **2** |
| **Mushroom cultivation** | **-do-** | **4** | **1** | **On** | **3** | **1** | **15** | **1** | **18** | **2** |
| **IV**  **Jan 2019 to March 2019** | **Organic farming of vegetable crops** | **To develop knowledge and skill for healthy vegetable production without chemicals** | **4** | **1** | **On** | **3** | **1** | **15** | **1** | **18** | **2** |
| **Sustainable Beekeeping** | **For income generation and self employment** | **5** | **1** | **On** | **3** | **1** | **15** | **1** | **18** | **2** |
|  |  |  | **Total** | 64 | 8 |  | 24 | 7 | 132 | 7 | 156 | 14 |

**Details of Proposed Training Programme for Extension Functionaries (April, 2018 to March, 2019)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Discipline** | **Qrt. No.**  **& Months** | **Thematic Area &**  **Course Title** | **Course Object** | **Duration**  **(Days)** | **Total no. of course** | **Venue**  **Off/on**  **Campus** | **Participants Trainees (Nos.)** | | | | | |
| **SC/ST** | | **Others** | | **Total** | |
| **M** | **W** | **M** | **W** | **M** | **W** |
| **Entomology** | **I**  **April 2018 to June 2018** | **Integrated pest management of summer crops** | **To update the knowledge on recent technique for dissemination** | **2** | **1** | **On** | **3** | **1** | **15** | **1** | **18** | **2** |
| **II**  **July 2018 to September 2018** | **Management of major insect pests and disease of kharif crops** | **-do-** | **2** | **1** | **On** | **3** | **1** | **15** | **1** | **18** | **2** |
| **III**  **Oct 2018 to Dec 2018** | **Management of major insect pests and disease of vegetable crops** | **-do-** | **2** | **1** | **On** | **3** | **1** | **15** | **1** | **18** | **2** |
| **IV Jan 2018 to March 2018** | **Integrated pest management of rabi crops** | **-do-** | **3** | **1** | **On** | **3** | **1** | **15** | **1** | **18** | **2** |
|  | **Toatal** |  |  | 9 | 4 |  | 12 | 4 | 60 | 4 | 72 | 8 |

**Agricultural Engineering Action Plan (2018-19)**

**Training Programme**

**Details of Proposed Training Programmers for Practicing farmers / farm women**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Qrt No.& Months | Thematic Area | Course Title | Duration  (Days) | Total No. of courses | Venue | Participants | | | | | |
| SC/ST | | Other | | Total | |
| M | F | M | F | M | F |
| I  April 2018 to June 2018 | Repair & maintenance of implement | Crop harvesting equipments | 2 | 1 | On/off | 3 | - | 22 | - | 25 | - |
| Water Conservation | In-situ moisture conservation | 2 | 1 | On/off | 3 | - | 22 | - | 25 | - |
| Use of improved implement | Use of Improved tillage/sowing implements | 2 | 1 | On/Off | 3 | - | 22 | - | 25 | - |
| Water conservation | Rainwater conservation techniques | 2 | 1 | On/Off | 3 | - | 22 | - | 25 | - |
| II  July 2018 to September 2018 | Repair & maintenance of implement | Working of paddy transplanting implements | 2 | 1 | On/Off | 3 | - | 22 | - | 25 | - |
| Repair & maintenance of implement | Operation of direct paddy seeders | 2 | 1 | On/off | 5 | - | 20 | - | 25 | - |
| Small tools and implements | Improved weeding implements | 2 | 1 | On/off | 3 | - | 22 | - | 25 | - |
| Water Conservation | On farm water management in paddy in climate change perspective | 2 | 1 | On/off | 3 | - | 22 | - | 25 | - |
| III  Oct 2018 to Dec 2018 | Repair & maintenance of implement | Modern harvesting & threshing equipments | 2 | 1 | On/off | 3 | - | 22 | - | 25 | - |
| Repair & maintenance of implement | Operation, maintenance and Calibration of ZT Machine | 2 | 1 | On/off | 3 | - | 22 | - | 25 | - |
| Repair & maintenance of implement | Use and operation of seed cum ferti. drill | 2 | 1 | On/off | 3 | - | 22 | - | 25 | - |
| Water Conservation | Irrigation scheduling in rabi crops for climate resilience | 2 | 1 | On/Off | 3 | - | 22 | - | 25 | - |
| IV  Jan 2019 to March 2019 | Water Conservation | On Farm water management for rabi crops | 2 | 1 | On/off | 5 | - | 20 | - | 25 |  |
| Micro irrigation | Sprinkler irrigation in rabi crops | 2 | 1 | On/Off | 3 | - | 22 | - | 25 | - |
| Micro irrigation | Techniques of drip irrigation | 2 | 1 | On/Off | 3 | - | 22 | - | 25 | - |
| Use of plastics in farming practices | Use of plastic mulch for moisture conservation | 2 | 1 | On/Off | 5 | - | 20 | - | 25 | - |
| Total |  |  | 32 | 16 |  | 54 | 0 | 346 | 0 | 750 | 0 |

**Agricultural Engineering**

**Details of Proposed Training Programmes for Rural Youths (April, 2018 to March, 2019)**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Qrt No.& Months | Thematic Area | Course Title | Duration  (Days) | Total No. of courses | Venue | Participants | | | | | |
| SC/ST | | Other | | Total | |
| M | F | M | F | M | F |
| I  April 2018 to June 2018 | Climate Resilience | Forecasting Application for Risk management in Agriculture | 4 | 2 | On | 6 | - | 34 | - | 40 | - |
| Repair & Maintenance  of farm Implements | Improved tillage/sowing | 2 | 1 | On/off | 5 | - | 20 | - | 25 | - |
| II  July 2018 to September 2018 | Repair & Maintenance  of farm Implements | Mechanized paddy cultivation | 2 | 1 | On/off | 5 | - | 20 | - | 25 | - |
| III  Oct 2018 to Dec 2018 | Repair & Maintenance  of farm Implements | Repair, maintenance and calibration of ZT machine | 2 | 1 | On/Off | 5 | - | 20 | - | 25 | - |
| IV  Jan 2019 to March 2019 | Repair & Maintenance  of farm Implements | Improved harvesting machineries | 2 | 1 | On/Off | 5 | - | 20 | - | 25 | - |
| Total |  |  | 12 | 6 |  | 26 | - | 114 | - | 140 | - |

**Agricultural Engineering**

**Details of Proposed Training Programme for Extension Functionaries (April, 2018 to March, 2019)**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Qrt No.& Months | Thematic Area | Course Title | Duration  (Days) | Total No. of courses | Venue | Participants | | | | | |
| SC/ST | | Other | | Total | |
| M | F | M | F | M | F |
| I  April 2018 to June 2018  II  July 2018 to September 2018 | Care & maintenance of Implements | Tillage/sowing implements | 2 | 1 | On/off | 2 | - | 38 | - | 40 | - |
| III  Oct 2018 to Dec 2018  IV  Jan 2019 to March 2019 | Care & maintenance of Implements | Operation and calibration of Zero tillage machine | 2 | 1 | On/Off | 2 | - | 38 | - | 40 | - |
| Total |  |  | 4 | 2 |  | 4 |  | 76 |  | 80 | - |

**Animal Science**

**Details of Proposed Training Programmers for Practicing farmers / farm women**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Qrt No.& Months | Thematic Area& Course Title | Course  objective | Duration  (Days) | No. of Course | Venue Off/On campus | Participants trainees (NOs) | | | | | | Total |
| SC/ST | | Others | | Total | |
| **M** | **W** | **M** | **W** | **M** | **W** |
| **I.** April 2018 to June’ 2018 | **Poultry Farming**  (Poultry cum fish Farming) | To train famers about Integrated farming |  | 1 | On | 5 | 5 | 20 | 10 | 25 | 15 | 40 |
| **Diseases management**  (Zoonotic diseases of animals & there contest) | To protect animals from diseases. |  | 1 | On | 5 | 5 | 25 | 5 | 30 | 10 | 40 |
| **Feed Management**  (Composition of dairy ration of cattle) | To make balanced & economic ration |  | 1 | On | 5 | 5 | 20 | 10 | 25 | 15 | 40 |
| **II .**  July’ 2018 to Sept. 2018 | **Poultry Management**  (Feeding of poultry) | Economic feeding of poultry |  | 1 | On | 10 | 2 | 25 | 3 | 35 | 5 | 40 |
| **Dairy farming**  (Important vaccine of milk animals) | To protect animals from diseases. |  | 1 | On | 10 | 2 | 25 | 3 | 35 | 5 | 40 |
| **Goat Management**  (Housing & diseases management**)** | Housing management & diseases control goats |  | 1 | On | 10 | 10 | 6 | 4 | 16 | 14 | 30 |
| **III.** Octo. 2018 to Dec, 2018 | **Feeding & diseases management**  (Housing & Nutritional management of pigs) | To train famers about pig farming |  | 1 | On | 30 | 15 | 5 | 0 | 35 | 15 | 50 |
| **Brooding /**  (Rearing of chicks) | To train famers about case of chick. |  | 1 | On | 5 | 5 | 26 | 4 | 31 | 9 | 40 |
| **Poultry farming**  (Farming of Ducks) | To popularizes duck farming. |  | 1 | On | 03 | 5 | 25 | 7 | 28 | 12 | 40 |
| **IV .**  January’ 2019 to March, 2019 | **Diseases management**  (General diseases of cattle during summer) | To protect diseases in cattle |  | 1 | On | 21 | 5 | 7 | 7 | 28 | 12 | 40 |
| **Goat farming**  (Disease control in goats) | To train about goat disease control. |  | 1 | On | 13 | 5 | 15 | 7 | 28 | 12 | 40 |
| **Feeding Management**  (Housing & Nutritional management of cattle) | To train about housing & feeding management of cows/Buffaloes |  | 1 | On | 5 | 5 | 23 | 7 | 28 | 12 | 40 |
|  |  | **Total** | 24 | 12 |  | 122 | 69 | 222 | 67 | 344 | 136 | 480 |

**(Animal Science)**

**Details of Proposed Training Programmes for Rural Youths.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Qrt No.& Months | Thematic Area& Course Title | Course  objective | Duration  (Days) | No. of Course | Venue Off/On campus | Participants trainees (Nos) | | | | | | Total |
| SC/ST | | Others | | Total | |
| M | W | M | W | M | W |
| **I.**  April 2018 to June’ 2018 | **Dairy management**  (Breeding management of dairy cows) | To train youth of successful dairy farming | 5 | 2 | On | 9 | 4 | 16 | 1 | 25 | 5 | 30 |
| **II .**  July’ 2018 to Septer 2018 | **Poultry farming**  (Seed making of poultry farming**)** | To train about poultry housing | 5 | 2 | On | 5 | 2 | 20 | 3 | 25 | 5 | 30 |
| Animal Health Worker | Animal Health Worker | 30 | 1 | on | 5 | 0 | 25 | 0 | 30 | 0 | 30 |
| **III.** Octo,2018 to Dec,’ 2019 | **Goat Farming**  (housing & disease management of goats ) | To train about chief shed for goat | 5 | 1 | On | 9 | 4 | 16 | 1 | 25 | 5 | 30 |
| **Fish farming**  **(** feeding &disease management of fish farming | To train about To train about care & management for Fish farming. | 5 | 1 | On | 2 | 0 | 20 | 10 | 20 | 10 | 30 |
| **IV .**  January’ 2019 to March, 2019 | **Pig farming**  (housing & disease management of piggery ) | To train about successful pig farming | 1 | 1 | off | 5 | 2 | 20 | 3 | 25 | 5 | 30 |
| **Artificial Insemination techniques** | Artificial Insemination for cattle /goats | 5 | 2 | On | 2 | 1 | 26 | 1 | 28 | 2 | 30 |
|  |  | **Total** | 30 | 9 |  | 32 | 13 | 118 | 19 | 148 | 32 | 180 |

**(Animal Science)**

**Details of Proposed Training Programmes for Training Programmes for Extension functionaries**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Qrt No.& Months | Thematic Area& Course Title | Course  objective | Duration  (Days) | No. of Course | Venue Off/On campus | Participants trainees (NOs) | | | | | | Total |
| SC/ST | | Others | | Total | |
| M | W | M | W | M | W |
| **I.**  April 2018 to June’ 2018 | **Disease management**  (Vital vaccines of dairy cattle ) | Impart latest vaccination schedule. | 1 | 1 | Off | 4 | 0 | 14 | 2 | 18 | 2 | 20 |
| **II .**  July’ 2018 to Sept. 2018 | **Dairy management**  (Breeding&Feeding management of Cattle.) | To educate about healthy breeding of cattle | 1 | 1 | Off | 4 | 1 | 13 | 2 | 18 | 2 | 20 |
| **III.** Oct. ,2018 to Dec,’ 2018 | **Poultry farming**  (Latest trends of Layer management ) | To training of egg laying Hens & its rearing | 1 | 1 | Off | 3 | 1 | 14 | 2 | 18 | 2 | 20 |
| **IV.**  January’ 2019 to March, 2019 | **Artificial Insemination techniques** | To training for precautionary measure of A.I techniques | 1 | 1 | On | 4 | 0 | 14 | 2 | 18 | 2 | 20 |
| **Feeding management** ( Control of malnutrition of live stocks) | To training about nutritional management | 1 | 1 | On | 2 | 2 | 14 | 2 | 16 | 4 | 20 |
|  |  | **Total** | 7 | 7 |  | 17 | 4 | 69 | 10 | 88 | 12 | 100 |

### Home Science

**Detailed of proposed training programmes for practicing farmers/farmer Women**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Quarter | Thematic Area | Course Title | Duration (days) | No. of courses | Venue | SC | | Others | | | Total | | | | |
| M | F | M | F | | M | | F | | T |
| I  April to June, 18 | Gender mainstreaming through SHG | SHG. formation & functioning | 01 | 1 | On/ off | - | 5 | - | 20 | | - | | 25 | | 25 |
| Value addition | Fruit & vegetable preservation | 01 | 1 | On/Off | - | 5 | - | 20 | | - | | 25 | | 25 |
| II  July to Sept, 18 | Household food security by kitchen Garden | Kitchen and nutritional gardening. | 01 | 1 | On/ Off | - | 4 | - | 16 | | - | | 20 | | 20 |
| Drudgery reduction technology | Training on small equipment for women in Agriculture to reduce drudgery. | 01 | 1 | On/Off | - | 5 | - | 20 | | - | | 25 | | 25 |
| Value addition | Fruit and vegetable preservation. | 01 | 1 | On/ Off | - | 5 | - | 15 | | - | | 20 | | 20 |
| III  Oct. to Dec, 18 | Enterprises Development | Income generation activities for self employement | 01 | 1 | On/ Off | - | 5 | - | 15 | | - | | 20 | | 20 |
| Storage loss minimize technique | Scientific storage technique | 01 | 1 | On/ Off | - | 5 | - | 15 | | - | | 20 | | 20 |
|  | Design & development of nutritive foods | Preparation of Ragi products | 01 | 1 | On/ Off | - | 5 | - | 15 | | - | | 20 | | 20 |
| IV  Jan.19 to March, 19 | Design and development of low cost diet | Importance and preparation of low cost nutritional food | 01 | 1 | On/ Off | - | 5 | - | 15 | - | | 20 | | 20 | |
| Women & Child Care | Importance of balance diet &preparation of low cost weaning food | 01 | 1 | On/ Off | - | 10 | - | 15 | | - | | 25 | | 25 |
| Mushroom production | Mushroom production | 01 | 1 | On/ Off | - | 5 | - | 15 | | - | | 20 | | 20 |
|  | Total |  | 11 | 11 |  | 0 | 9 |  | 171 | | - | | 225 | | 225 |

### Home Science

**Details of Proposed Training Programmes for Rural Youth**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Quarter | Thematic Area | Title | Duration | No. of courses | Venue | SC | | Others | | Total | | |
| M | F | M | F | M | F | T |
| I  April to June, 18 | Rural craft | Soft toys making | 02 | 1 | On/Off | 0 | 5 | 0 | 15 | 0 | 20 | 20 |
| II  July to Sept,18 | Value addition | Green mango squash | 02 | 1 | On/Off | 0 | 5 | 0 | 15 | 0 | 20 | 20 |
| III  Oct. to Dec.,18 | Mushroom production | Mushroom production (Small entrepreneur) | 30 | 1 | On/Off | 0 | 6 | 0 | 24 | 0 | 30 | 30 |
| IV  Jan. to March,19 | Value addition | Tomato sauce preparation | 02 | 1 | On/Off | 0 | 5 | 0 | 15 | 0 | 20 | 20 |
|  | Total |  | 8 | 4 |  | 20 | 0 | 60 | 0 | 0 | 80 | 0 |

### Home Science

**Details of Proposed Training Programmes for Extension Functionaries**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Quarter | Thematic Areas | Course Title | Duration | Venue | No. of courses | SC | | Others | | Total | | |
| M | F | M | F | M | F | T |
| April to June .18 | Value Addition | Food Processing & Preservation | 01 | On/Off | 1 | 0 | 5 | 0 | 15 | 0 | 20 | 20 |
| July to Sept, 18 | Household food security | Kitchen gardening and nutritional gardening | 01 | On/Off | 1 | 2 | 8 | 3 | 7 | 5 | 15 | 20 |
| Oct to Dec., 18 | Women and child care | Nutrition & health education for women & child | 01 | On/Off | 1 | 0 | 5 | 0 | 15 | 0 | 20 | 20 |
| Jan. 2019 to March 2019 | Formation and management of SHG. | SHG formation and functioning | 01 | On/Off | 1 | 0 | 5 | 0 | 15 | 0 | 20 | 20 |
| Total | | | | | 4 | 2 | 23 | 3 | 52 | 5 | 75 | 80 |

**On Farm Trials (2018-19)**

**AGRONOMY**

OFT: 1.

Title : To assess the “Weed Control Effects on the Wheat- Legume Intercropping”

Problem diagnose : Use of herbicide affects soil and human health

Micro farming situation : Irrigated wheat condition

Source of Technology: The University of Agriculture, Peshawar.

Technology assessed :

Farmers Practice : Sole wheat ( Use of post emergence herbicides)

Technical Option 1: Wheat (2 rows) + Pea (2 rows)

Technical Option 2: Wheat (3 rows) + Pea (3 rows)

Replication : 5

Total Area : 2ha.

Design : R.B.D.

Critical Input : Seed + Herbicides

Performance Indicator :

1. No. of weeds/m2
2. Grain yield (q/ha)

Economic Indicator : Net return andB:C ratio

Feed back/ Farmers reaction.

OFT: 2.

Title : To assess the “ Biological Weed Management through Rice-Duck Farming”.

Problem diagnose : Use of herbicide affects soil health, human health and the environment.

Micro farming situation : low land and irrigated condition

Source of Technology: BRRI, Bangladesh.

Technology assessed :

Farmers Practice : Mannual weeding

Technical Option 1: Rice+Herbicide

Technical Option 2: Rice-Duck Farming (Breed Khaki Campbell)

Replication : 5

Total Area : 1ha.

Design : R.B.D.

Critical Input : Seed, Herbicides and Duck

Performance Indicator :

1. No. of weeds/m2
2. Growth of duck (Kg)
3. No. of eggs
4. Grain yield (q/ha)

Economic Indicator : Net return andB:C ratio

Feed back/ Farmers reaction.

OFT-3

Title: Evaluation of paddy variety Suitable for medium to medium- upland under irrigated condition (Varietal trial on paddy)

Treatments:

Technical Option 01 : Paddy variety Supreme Sona (Farmer practices)

Technical Option 02 : Paddy variety BRR0643 (Sabour Harshit)

Technical Option 03: Paddy variety Sahbhagi

Source of technology: BAU, Sabour

Design: R.B.D.

Replication: 5

Critical Input: Seeds

Performance indicator: Technical Observation: Date of 50% flowering, plant height, yield

**Entomology**

**OFT-1**

Name of the Trial : Ecofriendly Management of Gram pod borer, *H. armigera*

Problem Identified :

Solution : Use of effective biopesticides may manage this problem

Treatments:

Technical Option 01 : Farmer practices (Chalorpyrifos 20 EC @ 1500ml/ha)

Technical Option 02 : NPV@500 LE/ha + Erect Bird perches @50/ha

Technical Option 03: BT @1 kg/ha+ Erect Bird perches @50/ha

Technical Option 04: Azaidiractin 3000ppm @500 ml/ha+ Erect Bird perches @50/ha

Source of technology: NCIPM, New Delhi

Design: R.B.D.

Replication: 8

Total area under trail: 1.0 ha

Critical Input: Bio pesticide, Seeds

Performance indicator: Technical Observation:

Insect infestation and yield attributes

Economic Indicator:

Net return, C: B ratio

Feedback/Farmers reaction

**OFT-2**

Name of the Trial : Validation of IPM technology for onion thrips at Jehanabad

Problem Identified :

Solution : Judicious use of effective insecticides may manage this problem

Treatments:

Technical Option 01 : Farmer practices (Acephate 20 SP @ 3 gm/lt water)

Technical Option 02 : Spray of Spinosad 45SC @1 ml/ 3 ltr water at 50DAT followed by spray of Fipronil 5 SC @ 1ml/2 ltr water at 65 DAS

Technical Option 03: Two spray of Azdiractoractin 3000ppm @ 10 ml/ltr water at 50 &65 DAS with Blue sticky trap @ 50/ha

Source of technology: NCIPM, New Delhi

Design: R.B.D.

Replication: 8

Total area under trail: 0.3 ha

Critical Input: Seeds and Insecticides

Performance indicator: Technical Observation:

% infestation and yield attributes

Economic Indicator:

Net return, C: B ratio

Feedback/Farmers reaction

**OFT-3                                   Entomology**

Name of the Trial :  Management of stem rot disease in paddy

Problem Identified :   At the time of crop maturity affected plant lodged with yellowing and finally death of the plants.

Solution : Judicious use of effective insecticides may manage this problem

Treatments:

 Technical Option  01 : Farmer practices (no action taken)

Technical Option 02 : Spray of Spray of Thiophenate-methyl 75WP @  2g/per ltr water

Technical Option 03:  Drain off water from filed and spray of Carbendazim 50 WP @ 2 g/ltr water

Source of technology: DRR, Hyderabad

Design: R.B.D.

Replication: 8

Total area under trail: 5 ha

Critical Input: Seeds and Insecticides

Performance indicator: Technical Observation:

                        %  infestation and yield attributes

                        Economic Indicator:

                        Net return, C: B ratio

                        Feedback/Farmers reaction

**Agril. Engg.**

**OFT 1**. Effect of line planting of lentil in different bed conditions

Problem diagnosed: High cost of sowing, seed rate, weed condition and lower yield of lentil in broadcasting method

Details of technologies selected for assessment/refinement

TO 1: Broadcasting of seed in stale bed condition (Farmers Practice)

TO 2: Line sowing in stale bed condition

TO 3: Line planting in zero tillage condition

Source of Technology: CIAE, Bhopal

Production system and thematic area: Rice-pulses, Thematic Area- Improved farm implement

Performance of the Technology with performance indicators: Cost of sowing/planting, seed rate, weed condition, yield, Net return, B: C ratio

**OFT 2:** Influence of nozzle type and spray volume on bispyribake sodium efficacy in paddy weed ecosystem

Problem diagnosed: Farmers uses very less volume of water with cone nozzle resulting weedicide not reaches to the target in proper amount

Details of technologies selected for assessment/refinement

TO 1: Spray using cone type nozzle with spray volume 200 l/ha (Farmers Practice)

TO 2: Spray using flat fan nozzle with spray volume 400 l/ha

TO 3: Spray using food jet nozzle with spray volume 600 l/ha

Source of Technology: IIPFT, Gurgaon

Production system and thematic area: Rice-Wheat/pulse, Thematic Area- Improved farm implement

Performance of the Technology with performance indicators: Weed count/sq.m, yield, Net return, B: C ratio

Replications-6

**Animal Science**

**OFT 1. Title: Effect of Urea treated for improving poor quality dry roughage for dairy cattle**

Problem Definition : lower growth rate and milk production .

Cause :

Hypothesis : Improve its nutritive values for enhanced feed intake and digestibility

Magnitude of problem : Medium to high

Existing farming situation : Calf and Milk based livestock production system

Objective : To improve growth rate and increase the productivity of milk.

Source of technology : IVRI, Izatnagar , Bareilly

Nature of intervention : On Farm Trial

**Details of Technology Option**:-

Farmer’s practice :-Use of untreated dry roughage (Paddy & wheat straw)

Technical option I :- Use of 4% Urea spray in paddy straw (Approx. 16 kg)

Technical option II :- Use of 4% Urea spray in wheat straw (Approx. 16 kg)

Farmer size : 5

Animals : Dairy cattle.

No. of animals : 5 in each treatment

Critical Input : Urea

Indicators : Growth rate , Milk production and Conception rate

**OFT 2. Title: Effect of Immunomodulator in growth performance of broiler chicks.**

Problem Definition : Poor growth performance and low body wt gain due heat stress.

Hypothesis : Supplementation of Probiotic, Immunomodulator, antibiotic& mineral mixture will increase body wt. gain.

Magnitude of problem : Medium to high

Existing farming situation : Body wt gain / chicken production system

Objective : To increase the growth performance and productivity of meats

Source of technology : GADVASU ,Punjab.

Nature of intervention : On Farm Trial

**Details of Technology Option**:-

Farmer’s practice :- Use of poultry feed with supplementation of any medicine

Technical option I :- FP+ IMMUNOMODULATOR ( Vit E & selenium/E-Care Se forte)

(Dose: 10ml/day for 1000 birds orally).

Technical option II : TO I + herbal IMMUNOMODULATOR

Farmer size : ONE

Variety : Poultry.

No. of animals : 100 in each treatment

Critical Input : Different types of organic products /Herbal products i.e.Probiotic, Immunomodulator

Indicators : Growth performance, body wt. gain and mortality rate .

**OFT 3. Title: Effect of UMMB & mineral supplementation on growth and reproductive performance of Heifers.**

Problem Definition : Malnutrition and Infertility .

Cause : Negative energy balance.

Hypothesis : Supplementation of herbal drugs will improve growth & normal reproductive system in cattle.

Magnitude of problem : Medium to high

Existing farming situation : Calf and milk based livestock production system

Objective : To improve reproductive system and increase the productivity of milk.

Source of technology : IVRI, Izatnagar , Bareilly

Nature of intervention : On Farm Trial

**Details of Technology Option**:-

**Farmer’s practice**:- Common feeding of concentrate mixture (maize 40, wheat bran 40, soybean meal 17, mineral mixture 2, and salt 1% each), green fodder (oats/Berseem/sorghum) & wheat straw

Technical option I :- FP+ UMMB.( urea molasses mineral block)

Technical option II :- FP+ chelated mineral mixture

Farmer size : 5

Animals : Heifer.

No. of animals : 5 in each treatment

Critical Input : UMMB and Mineral mixture.

Indicators : Body wt, Occurrence of heat and Conception rate .

OFT: Performance of Pashu Chocolate as feed on cattle

**Title:** Refinement & fabrication of portable pashu chocolate machine for cattle

Problem diagnose: Health and Reproductive Failure due to Nutritional problems of cattle.

Details of Technology options:

**T.O.1-** Use of locally available feed ingredient in loose form (**Farmers Practice)**

**T.O.2-** Use of pashu Chocolate machine brought from IVRI, Bareily

**T.O. 3**- Use of Portable Pashu chocolate machine locally fabricated by KVK, Jehanabad

**Details of Ingredients:** Wheat straw+ Maize+ Mustard Cake +Gram Chuni + Oat / Berseem flowering stage+ Salt & Mineral mixture

**Home Science**

**OFT 1: Assessment of different sub-state supplement used in oyster**

Problem diagnosed : Low yield & less net return from cultivation of oyster mushroom

Details of technologies selected for assessment/refinement

TO 1: farmers' practice (Use of wheat straw as base material)

TO 2: Use of wheat straw+ wheat bran @ 10% of dry weight of base material

TO 3: Use of wheat straw+ rice bran @ 10% of dry weight of base material

TO 4: Use of wheat straw + pulse husk @ 10% of dry weight of base material

Source of Technology: Directorate of Mushroom Research, Solan, H.P.

Thematic area: Entrepreneurship development through mushroom production

Performance indicators: Yield, B: C Ratio

Replication: 5

**Front Line Demonstration**

**(April, 2018 to March, 2019)**

**Front Line Demonstration (April, 2017 to March, 2018)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.No. | Season | Crop | Area (ha) | Sowing Time | Variety | Cash inputs | Technology Demonstrated | Demons-tration cost (Rs.) |
| 1. | Rabi | Lentil | 5.0 | Oct-Nov. | Azoxystobin 23 ai @ 1 ml/kg seed | Seed, chemical | Dry root rot disease | 3,000/- |
| 2 | Rabi | Veg Pea | 1.0 | Oct-Nov. | Kashi Ageti | Seed | HYV | 20,000/- |
| 3 | Rabi | Mushroom | - | Nov-Dec. | Oyster | Spawn | Spawn | 10000 |
| 4 | Rabi | Wheat | 5 | Nov.- Dec. | late variety | Machine, fuel, seed | Sowing by zero tillage technology | 25000/- |
| 5 | Kharif | Paddy | 5 | June | Sahbhagi | Seed | Drought tolerant variety | 3500/- |
| 6 | Rabi | Wheat | 2 | 1 Nov. | HD 2967 | Seed | Early sowing | 8000/- |
| 7. | Rabi | Lentil | 5.0 | Oct-Nov. | Pendimethaline | chemical | Management of cuscuta in lentil | 7500/- |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Farming Situation and Purpose** | **Enterprises** | **No. of Unit** | **Animal**  **(No.)** | **Critical Inputs** | **Total Cost** | **Technology** | **Farmers Contribution** | **KVK Contribution**  **( Rs )** |
| **1**.for growth & production performance | Poultry | 5  (one litter ) | 5000 | E –Sel-power liquid @900/lt | 4,500/- | Poultry feed supplement |  | 4,500/- |
| **2**. For urea treatment of fodder | Silage bags | Adopted villages (30) | 120 | Silage bag @650/bag  (60×60×65cm) | 20,000/- | Stall feeding |  | 20,000/- |

**Extension Activities:**

|  |  |
| --- | --- |
| Nature of Extension Activity | No. of activities |
| Field Day | 5 |
| Kisan Mela | 03 |
| Kisan Ghosthi & krishak chaupal | 25 |
| Exhibition | 01 |
| Workshop | 01 |
| Advisory Services | 100 |
| Scientific visit to farmers field | 60 |
| Farmers visit to KVK | 400 |
| Diagnostic visits | 20 |
| Exposure visits | 1 |
| Animal Health Camp | 2 |
| Celebration of important days (specify) | 4 |
| Video Conferencing | 25 |

1. **Contingency Plan:**

* Contingency crop planning & implimentation to withstand with climate change
* Promotion of Agribased enterprise for income generation for socio economic upliftment.
* Promotion of Livestock management by poor and landless people & fodder production for improving milk yield.
* Women empowerment through group approach.
* Achieving nutritional security.
* Promotion of farm mechanization keeping in view of labour crisis.
* Promotion of resource conservation technologies.
* Strenghthening extension functionaries of line department to make them upto date with regard to recent advancement in the field of agriculture & allied.
* Skill enhancement of rural women engaged in agriculture.
* To increase the coverage of organic farming in the district.