**ANNUAL REPORT (January-2019-December-2019)**

**APR SUMMARY**

1. **Training Programmes**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Clientele** | **No. of Courses** | **Male** | **Female** | **Total participants** |
| Farmers & farm women | 84 | 1680 |  | 1680 |
| Rural youths | 17 | 170 |  | 170 |
| Extension functionaries | 10 | 100 |  | 100 |
| **Total** | **111** | **1950** |  | **1950** |
| Sponsored Training | 15 | 1085 |  | 1085 |
| Vocational Training | 06 | 300 |  | 300 |

1. **Frontline demonstrations**

|  |  |  |  |
| --- | --- | --- | --- |
| **Enterprise** | **No. of Farmers** | **Area (ha)** | **Units/Animals** |
| Oilseeds |  |  |  |
| Pulses | 63 | 25.56 | 63 |
| Cereals | 10 | 4.00 | 10 |
| Vegetables | 63 | 16.20 | 63 |
| Other crops | 10 | 2.00 | 10 |
| Hybrid crops |  |  |  |
| **Total** | 146 | 47.76 | 146 |
| Livestock & Fisheries | 20 |  | 20 |
| Other enterprises (Poultry) | 10 | 4500 | 10 |
| **Total** | 30 |  | 30 |
| **Grand Total** | 176 |  | 176 |

1. **Technology Assessment**

|  |  |  |  |
| --- | --- | --- | --- |
| **Category** | **No. of Technology Assessed** | **No. of Trials** | **No. of Farmers** |
| Crops | 01 | 03 | 03 |
| Livestock | 06 | 18 | 18 |
| Various enterprises | 01 | 50 | 50 |
| **Total** | 08 | 71 | 71 |

1. **Extension Programmes**

|  |  |  |
| --- | --- | --- |
| **Category** | **No. of Programmes** | **Total Participants** |
| Extension activities | 3019 | 12961 |
| Other extension activities | 90 | Mass |
| **Total** | **3109** | **12961** |

1. **Mobile Advisory Services**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Name of KVK** | **Message Type** | **Type of Messages** | | | | | | |
| **Crop** | **Livestock** | **Weather** | **Marke-ting** | **Aware-ness** | **Other enterprise** | **Total** |
|  | Text only |  |  |  |  |  |  |  |
| Voice only | 486 | 178 | 08 | 12 |  |  |  |
| Voice & Text both |  |  |  |  |  |  |  |
|  | **Total Messages** |  |  |  |  |  |  |  |
|  | **Total farmers Benefitted** |  |  |  |  |  |  |  |

1. **Seed & Planting Material Production**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Quintal/Number** | **Value Rs.** | **Distributed to No. of farmers** |
| Seed (q) | 580.90 | 654146.00 |  |
| Planting material (No.) | 18500 |  |  |
| Bio-Products (kg) |  |  |  |
| Livestock Production (No.) |  |  |  |
| Fishery production (No.) |  |  |  |

1. **Soil, water & plant Analysis**

|  |  |  |  |
| --- | --- | --- | --- |
| **Type of Samples** | **No. of samples analysised** | **No. of Beneficiaries** | **Value Rs.** |
| Soil |  |  |  |
| Water |  |  |  |
| Plant |  |  |  |
| **Total** |  |  |  |

1. **HRD and Publications**

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Category** | **Number** |
| 1 | Workshops | 03 |
| 2 | Conferences | 01 |
| 3 | Meetings | 10 |
| 4 | Trainings for KVK officials | 03 |
| 5 | Visits of KVK officials | 02 |
| 6 | Book published |  |
| 7 | Training Manual |  |
| 8 | Book chapters |  |
| 9 | Research papers | 03 |
| 10 | Lead papers |  |
| 11 | Seminar papers | 06 |
| 12 | Extension folder | 09 |
| 13 | Proceedings |  |
| 14 | Award & recognition |  |
| 15 | On going research projects |  |

**DETAIL REPORT OF APR (Jan.2019 to Dec. 2019)**

### 1. General Information about the KVK

* 1. **Name and address of the KVK with Phone, Fax and e-mail**

|  |  |  |  |
| --- | --- | --- | --- |
| **Address** | **Telephone** | **e-mail** | **Website** |
| Krishi Vigyan Kendra, Ujhani  Distt. – Badaun  PIN – 243639 | 05832 - 264996 | badaunkvk@gmail.com | badaun.kvk4.in |

**1.2 Name and address of the host organization with Phone, Fax and e-mail**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Address** | **Telephone** | **Fax** | **e-mail** | **Website** |
| Sardar Vallabhbhai Patel University of Agri. & Tech., Meerut -250110 (U.P.) | 0121-2888511 | 0121- 2888540 | deesvpuat2014@gmail.com | svpuat.ac.in |

* 1. **a Status of KVK website : Yes**
  2. **b No. of Visitors (hits) to your KVK website (as on today)**

**1.2 c Status of ICT lab at your KVK - No**

* 1. **Name of the Head with Phone & Mobile No.**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Telephone / Contact | | |
| Dr. Sanjay Kumar | Office | Mobile | Email |
| 05832 264996 | 9412368175 | sanjayento77@gmail.com |

**1.4 Year of sanction** : **01.08.1992**

**1.5 Staff Position (as on 30 Oct. 2019)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S.N. | Sanctioned post | Name of the incumbent | Designation | Discipline | Pay Scale (Rs.) | Present basic (Rs.) | Date of joining | Permanent  /Temporary | Category (SC/ST/  OBC/  Others) | Mobile no. | Age | Email id |
| 1 | Senior Scientist & Head | Dr. Raksha Pal Singh | **ON LIEN LEAVE** | | | | | | | | | |
| 2 | Subject Matter  Specialist | Dr. Sanjay Kumar | **Officer Incharge** | Ph.D.. (Entomology) | 15600-39100 | 31070 | 15.07.08 | Permanent | SC | 9412368175 | 42 | sanjayento77@gmail.com |
| 3 | Subject Matter  Specialist | Dr. Shri Pal Singh | S.M.S. /Asstt. Prof. (Animal Science) | Ph.D. (Animal Science) | 15600-39100 | 33840 | 18.08.08 | Permanent | OBC | 8954903816 | 58 | ssspsachan@gmail.com |
| 4 | Subject Matter  Specialist | Dr. Y.P. Singh | S.M.S. /Asstt. Prof. (Horticulture) | Ph.D. (Horticulture) | 15600-39100 | 32020 | 19.01.09 | Permanent | OBC | 9457111952 | 43 | ypsingh76@gmail.com |
| 5 | Programme Assistant | Dr. Anand Prakash | Trg. Asstt. (A.V. Aids) | Ph.D. (Agril. Extn.) | 1740-3000 | 76500 | 20.12.95 | Permanent | OBC | 9412195441 | 53 | dranandprakash121@gmail.com |
| 6 | Computer  Programmer | Sh. Ashish Agarwal | Prog. Asstt.  (Computer) | B.Sc. & Diploma in computer | 9300-34800 | 72100 | 16.10.99 | Permanent | Other | 9456868422 | 44 | to.ashishagarwal1999@gmail.com |
| 7 | Farm Manager | Dr. Vimal Kumar Singh | Prog. Asstt.\Farm Manager | Ph.D.. (Entomology) | 9300-34800 | 50500 | 22.07.08 | Permanent | Other | 9450779838 | 39 | to.vksingh1978@gmail.com |
| 8 | Accountant / Superintendent | Sh. Alok Saxena | Office. Supdt./  Accountant | M.Com. | 9300-34800 | 66000 | 6.9.2000 | Permanent | Other | 9411300515 | 47 | saxenaalok72@gmail.com |
| 9 | Driver cum Mechanic | Sri. Subash Chand | Driver | B.A. | 5200-20200 | 30500 | 01.03.08 | Permanent | OBC | 9719818397 | 45 | - |
| 10 | Supporting staff | Sh. Riyasat | Mali | Literate | 5200-20200 | 34300 | 28.04.97 | Permanent | OBC | 9917405005 | 54 | - |
| 11 | Supporting staff | Sh. Jagvir Singh | Field Attendant | B.A. | 5200-20200 | 29300 | 15.01.04 | Permanent | OBC | 9410021878 | 34 | jagvirshakya85@gmail.com |

**1.6. Total land with KVK (in ha) :**

|  |  |  |
| --- | --- | --- |
| **S. No.** | **Item** | **Area (ha)** |
| 1 | Under Buildings | **1.40 ha** |
| 2. | Under Demonstration Units | **0.10 ha** |
| 3. | Under Crops | **10.00 ha** |
| 4. | Orchard/Agro-forestry | **1.20 ha** |
| 5. | Under fodder excellence centre | **-** |
| 6 | Others (specify) Fish pod | **0.30 ha** |
| **Total** | | **13.00 ha** |

* 1. **Infra-structural Development**

1. **Buildings**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.** | **Name of building** | **Source of funding** | **Stage** | | | | | |
| **Complete** | | | **Incomplete** | | |
| **Completion date** | **Plinth area (sq.m)** | **Expenditure (lac)** | **Starting date** | **Plinth area (sq.m)** | **Status of construction** |
| 1. | Administrative building | ICAR | 2001 | 550 | 29.00 |  |  | Complete |
| 2. | Farmers Hostel | ICAR | 2005 | 300 | 16.43 |  |  | Complete |
| 3. | Staff Quarters (06) | ICAR | 2008 | 2400 | 28.67 | - |  | Complete |
| 4. | Demo. unit. (02) | ICAR | 2008 | 160 | 4.00 | - |  | Complete |
| 5. | Fencing | ICAR | 2007 | 2000 | 16.43 |  |  | Complete |
| 6. | Rain water harvesting system | ICAR | 2005 | 4000 | 0.33 |  |  | Complete |
| 7. | Threshing floor | ICAR | 2007 | 300 | 1.00 |  |  | Complete |
| 8. | Farm godown | ICAR | 2007 | 60 | 1.00 |  |  | Complete |

1. **Vehicles**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Type of vehicle** | **Year of purchase** | **Cost (Rs.)** | **Vehicle No. /Total kms. Run** | **Present status** |
| Jeep (01) | 2008 | 507000.00 + Expenses | UP24 – G 0127 / 182638 | Working |
| Motorcycle (01) | 2010 | Purchased by H.Q. | UP24G-0148/71000 | Working |
| Cycle (02) | 1998 | 2338.00 | - | Working |

**C) Equipments & Audio Visual Aids**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of equipment** | **Year of purchase** | **Cost (Rs.)** | **Present status** |
| Computer Hub system | Received 2008 | Purchased by ERNET | Not Functioning |
| Computer | Received 2005 | Purchased by H.Q. | Working |
| Computer Printer | Received 2005 | Purchased by H.Q. | Working |
| Computer Printer | 2006 | 6800.00 | Working |
| Projector | 2004 | Purchased by H.Q. | Working |
| Soil testing lab. equipment | 2005 | 485432.40 | Working |
| Colour television & DVD player | 2006 | 14500.00 | Working |
| LCD | 2007 | 64125.00 | Working |
| Digital Camera | 2008 | 19990.00 | Working |
| Laptop | 2014 | Purchased by H.Q | Working |
| Laptop | 2017 | Purchased by H.Q. | Working |

**1.8. A). Details of SAC meetings to be conducted in the year**

|  |  |
| --- | --- |
| **Sl.No.** | **Date** |
| 1. Scientific Advisory Committee | 05.03.19 |

|  |  |  |  |
| --- | --- | --- | --- |
| **S.N.** | **Name & Designation of Delegates** | **Salient Recommendations** | **Action taken** |
| 1 | Sri. Ajay Pratap Singh, DDO, Badaun  Dr. S.B. Singh  Incharge, ZRC, Ujhani  Sri. Jai Prakash Singh, PPO Badaun  Dr. Vivek Kumar, V.O., Ujhani  Sri. Rajesh Pratap Singh  SAC, Member  Smt. Geeta Devi  SAC, Member  Dr. Preeti Agarwal, Principal  Sri. Rajesh Kumar, Asstt. Field Manager, IFFCO  Smt. Usha Gautam  NGO  Smt. Sadhana Singh  SAC, Member  Sri. K.P. Singh  Progressive Farmer  Pandit Leeladhar Sharma  Progressive Farmer | Sri. A.P. Singh, DDO Badaun suggested that there should be training of application of Trichoderma, Neem and other biopesticides | Suggestion have been incorporate in Action Plan |
| 2 | Dr. S.B. Singh suggested that there should be improve variety in the OFT/FLD and variety name should also be mention in the farmers practice | Suggestion have been incorporate in Action Plan |
| 3 | Dr. Preeti Agarwal advised to include the training on organic farming and Goatery. | Suggestion have been incorporate in Action Plan |
| 4 | Dr. S.B. Singh suggested that Bee keeping and mushroom training should be conducted for rural youth for self employment | Suggestion have been incorporate in Action Plan |
| 5 | Smt. Geeta Devi suggested that KVK should make available minikit of vegetables for kitchen gardening. | Suggestion have been incorporate in Action Plan |
| 6 | Shri. Rajesh Pratap Singh suggested that KVK should arrange technological tour for farmers in different Agricultural institutions. | Suggestion have been incorporate in Action Plan |
| 7 | Ms. Usha Gautam suggested that there should be training for farm women on value addition in vegetables & fruits. | Suggestion have been incorporate in Action Plan |
| 8 | Sri. V.K. Saxena suggested that an animal health camp for awareness on importance of ecto & endo parasites. | Suggestion have been incorporate in Action Plan |
| 9 | Sri. Leeladhar Sharma suggested that training on Medicinal Plant cultivation technology and their importance. | Suggestion have been incorporate in Action Plan |

**2. DETAILS OF DISTRICT**

2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

|  |  |
| --- | --- |
| S. No | Farming system/enterprise |
| 1. | Agriculture + Horticulture + Animal Husbandry |
| 2. | Agriculture + Animal Husbandry + Horticulture |
| 3. | Agriculture + Animal Husbandry + Poultry |
| 4. | Agriculture + Horticulture + Animal Husbandry + Poultry |

2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

a) Soil Type

|  |  |  |
| --- | --- | --- |
| S. No | Agro ecological situation | Characteristics |
| 1. | AES-I | It represents the Mid Western Plain Zone of the district having light soil with medium fertility, medium rainfall and most suited for paddy, wheat, potato, sugarcane, Bajra as well as guava cultivation. Out of 15 development blocks of Badaun district. It covers four blocks viz. Dataganj, Samrer, Meon, Usawan |
| 2. | AES-II | It represents the Mid Western Plain Zone of the district with loamy soil having medium fertility, medium rain fall, suited for all type of crops viz. wheat, sugarcane, paddy, Bajra as well as vegetable crops due to proximity to the city. It covers five blocks viz. Jagat, Ujhani, Qadarchowk, Salarpur and Wajirganj. |
| 3. | AES-III | It represents the Mid Western Plain Zone of the district having sandy soil and sandy loam with medium fertility and medium rainfall. Six development blocks viz. Bisauli, Asafpur, Ambiyapur , Islamnagar, Sahaswan, Dehgawan comes under this AES. It is suited for cereal crops as well as vegetables. |

b) Topography

|  |  |  |
| --- | --- | --- |
| S. No. | Agro ecological situation | Characteristics |
| 1 | AES-I | It represents the Mid Western Plain Zone of the district having light soil with medium fertility, medium rainfall and most suited for paddy, wheat, potato, sugarcane, Bajra as well as guava cultivation. Out of 15 development blocks of Badaun district. It covers four blocks viz. Dataganj, Samrer, Meon, Usawan |
| 2 | AES-II | It represents the Mid Western Plain Zone of the district with loamy soil having medium fertility, medium rain fall, suited for all type of crops viz. wheat, sugarcane, paddy, Bajra as well as vegetable crops due to proximity to the city. It covers five blocks viz. Jagat, Ujhani, Qadarchowk, Salarpur and Wajirganj. |
| 3 | AES-III | It represents the Mid Western Plain Zone of the district having sandy soil and sandy loam with medium fertility and medium rainfall. Six development blocks viz. Bisauli, Asafpur, Ambiyapur , Islamnagar, Sahaswan, Dehgawan comes under this AES. It is suited for cereal crops as well as vegetables. |

* 1. Soil types

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No | Soil type | Characteristics | Area (ha ) |
| 1 | Clay Loam | It is more fertile than sandy and sandy loam | 2558 |
| 2 | Sandy Soil | Sandy soil is dominated and having low status of NPK. | 224480 |
| 3 | Sandy Loams | It is more fertile than sandy soil | 199730 |

**2.4. Area, Production and Productivity of major crops cultivated in the district**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S. No | Crop | Area (ha) | Production (mt) | Productivity (Qtl /ha) |
| A | FIELD CROPS INCLUDING OIL SEEDS AND PULSES | | | |
| 1. | Wheat | 232327 | 772345 | 33.24 |
| 2. | Gram | 68 | 75 | 11.11 |
| 3. | Pea | 836 | 1774 | 21.22 |
| 4. | Mustard /Toria | 35071 | 52417 | 14.95 |
| 5. | Lentil | 3842 | 5379 | 14.00 |
| 6. | Paddy | 78127 | 178254 | 22.82 |
| 7. | Bajra | 99882 | 185962 | 18.62 |
| 8. | Maize | 8024 | 16653 | 20.75 |
| 9. | Arhar | 503 | 492 | 9.79 |
| 10. | Groundnut | 525 | 620 | 11.80 |
| 11. | Moong | 126 | 68 | 5.40 |
| 12. | Sugarcane | 26891 | 1560108 | 580.16 |
| **B** | VEGETABLES | | | |
| 1. | Potato | 12104 | 214664 | 177.35 |
| 2. | Tabacco | 706 | 3912 | 55.45 |
| 3. | Turmeric | 250 | 715 | 28.61 |

**2.5. Weather data (2017-18)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Month | Rainfall (mm) | Temperature 0 C | | Relative Humidity (%) | |
| Maximum | Minimum | Maximum | Minimum |
| Total |  |  |  |  |  |

* 1. **Production and productivity of livestock, Poultry, Fisheries etc. in the district**

|  |  |  |  |
| --- | --- | --- | --- |
| **Category** | **Population** | **Production** | **Productivity** |
| **Cattle** | | | |
| **Buffalo** | 40590 |  |  |
| **Sheep** | 15930 |  |  |
| **Goats** | 22975 |  |  |
| **Pigs** |  |  |  |
| *Crossbred* | 10561 |  |  |
| *Indigenous* | 22945 |  |  |
| **Rabbits** |  |  |  |
| **Poultry** | | | |
| Hens | 159725 |  |  |
| *Desi* |  |  |
| **Category** |  | Production (Q.) | Productivity |
| Fish (Reservoir) |  |  |  |

\*Statical report

**2.7 Details of operational area / villages**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Taluka** | **Name of the block** | **Name of the village** | **Major crops & enterprises** | **Major problem identified** | **Identified thrust areas** |
| Bilsi  Sadar    Sadar | Ambiapur | Hasupur Baheria | Bajra, Maize, Jower, Wheat, Potato, Mustard, Barly, Toria, Sugarcane, Paddy, Gram, Vegetables, Sunflower, Mentha, Poultry, Buffalo | Productivity of paddy, wheat, Maize, Bajra, Lentil etc. in general are very low. The main reason of low yield is imbalance use of fertilizer and lack of high yielding varieties  Attack of stem borer, Brown Plant Hopper and Blast disease in rice.  Attack of wilt in gram.  Weed infestation in various crops.  Use of local varieties of different crops by the farmer.  Pest problems in vegetable crops.  Poor milk production and infertility in animals.  Lack of quality planting material in horticultural crops.  Wilt infestation in Guava orchards.  Drudgery in farm activities. | Integrated nutrient management.  High yielding varieties  Post harvest management.  Nutrition and health.  Employment generation in Rural areas.  Bio pesticide in vegetables/ cereals.  Establishment of nurseries.  Diversification in Agriculture.  Use of improved varieties.  Nutrition management and repeated breeding management in dairy animals. |

**2.8 Priority thrust areas**

|  |  |
| --- | --- |
| **S.N.** | **Thrust area** |
|  | Low organic carbon & available Potassium in soil. |
|  | Lack of knowledge about balance nutrition in agricultural crops. |
|  | Need of diversification in agriculture. |
|  | Lack of elite quality planting material of horticultural crops and lack of Bahar control in guava. |
|  | Lack of knowledge about improved varieties and seed production of different crops. |
|  | Lack of IPM and IDM in various crops |
|  | Lack of management in animal and poultry production. |
|  | Lack of improved breeds of animals. |
|  | Lack of balance nutrition and good health in animals. |

**2.9 Intervention/ Programmes for the doubling the farmers income – during 2019 Demonstrations**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Before Interventions** | **Main crop**  **Yield(q/ha)** | **Inter crop Yield(q/ha)** | **Equivalent Yield(q/ha)** | **Cost of cultivation(Rs/ha)\*** | **Net income(Rs/ha)** | **B.C: Ratio** | **Remark if any** |
| Intercropping System(Kharif-Rabi-Zaid) -Livestock etc. |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

**Discussion**: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) \*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **After**  **Interventions** | **Main crop**  **Yield(q/ha)** | **Inter crop Yield(q/ha)** | **Equivalent yield(q/ha)** | **Cost of cultivation(Rs/ha)\*** | **Net income(Rs/ha)** | **B.C: Ratio** | **Remark if any** |
| Intercropping System(Kharif-Rabi-Zaid) -Livestock etc. |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

**Discussion**: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) \*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Before Interventions** | **Main crop**  **Yield(q/ha)** | **Inter crop Yield(q/ha)** | **Equivalent yield(q/ha)** | **Cost of cultivation(Rs/ha)\*** | **Net income(Rs/ha)** | **B.C: Ratio** | **Remark if any** |
| Mono Cropping System(Kharif-Rabi-Zaid) -Livestock etc. |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

**Discussion**: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) \*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **After**  **Interventions** | **Main crop Yield(q/ha)** | **Inter crop Yield(q/ha)** | **Equivalent yield(q/ha)** | **Cost of cultivation(Rs/ha)\*** | **Net income(Rs/ha)** | **B.C: Ratio** | **Remark if any** |
| Mono Cropping System(Kharif-Rabi-Zaid) -Livestock etc. |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

**Discussion**: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) \*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Before Interventions** | **Main crop Yield(q/ha)** | **Inter crop Yield(q/ha)** | **Equivalent yield(q/ha)** | **Cost of cultivation(Rs/ha)\*** | **Net income(Rs/ha)** | **B.C: Ratio** | **Remark if any** |
| Relay Cropping System(Kharif-Rabi-Zaid) -Livestock etc. |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

**Discussion**: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) \*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **After**  **Interventions** | **Main crop Yield(q/ha)** | **Inter crop Yield(q/ha)** | **Equivalent yield(q/ha)** | **Cost of cultivation(Rs/ha)\*** | **Net income(Rs/ha)** | **B.C: Ratio** | **Remark if any** |
| Relay Cropping System(Kharif-Rabi-Zaid)-Livestock etc. |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

**Discussion**: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) \*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Before Interventions** | **Main crop Yield(q/ha)** | **Inter crop Yield(q/ha)** | **Equivalent yield(q/ha)** | **Cost of cultivation(Rs/ha)\*** | **Net income(Rs/ha)** | **B.C: Ratio** | **Remark if any** |
| Mixed Farming System(Kharif-Rabi-Zaid)-Livestock etc. |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

**Discussion**: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) \*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **After**  **Interventions** | **Main crop Yield(q/ha)** | **Inter crop Yield(q/ha)** | **Equivalent yield(q/ha)** | **Cost of cultivation(Rs/ha)\*** | **Net income(Rs/ha)** | **B.C: Ratio** | **Remark if any** |
| Mixed Farming System(Kharif-Rabi-Zaid) -Livestock etc. |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

**Discussion**: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) \*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Before Interventions** | **Main crop Yield(q/ha)** | **Inter crop Yield(q/ha)** | **Equivalent yield(q/ha)** | **Cost of cultivation(Rs/ha)\*** | **Net income(Rs/ha)** | **B.C: Ratio** | **Remark if any** |
| IFS System(Kharif-Rabi-Zaid) -Livestock etc. |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

**Discussion**: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) \*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **After**  **Interventions** | **Main crop Yield(q/ha)** | **Inter crop Yield(q/ha)** | **Equivalent yield(q/ha)** | **Cost of cultivation(Rs/ha)\*** | **Net income(Rs/ha)** | **B.C: Ratio** | **Remark if any** |
| IFS System(Kharif-Rabi-Zaid) -Livestock etc. |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

**Discussion**: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) \*

Note- Same format may be used for OFT.

**3. TECHNICAL ACHIEVEMENTS**

**3.A. Details of target and achievements of mandatory activities by KVK during 2019**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **OFT (Technology Assessment and Refinement)** | | | | **FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)** | | | |
| **1** | | | | **2** | | | |
| **Number of OFTs** | | **Total no. of Trials** | | **Area in ha** | | **Number of Farmers** | |
| **Targets** | **Achievement** | **Targets** | **Achievement** | **Targets** | **Achievement** | **Targets** | **Achievement** |
| 09 | 08 | 27 | 71 | 52 | 47.86 | 200 | 176 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Training** | | | | | **Extension Activities** | | | |
| **3** | | | | | **4** | | | |
| **Number of Courses** | | | **Number of Participants** | | **Number of activities** | | **Number of participants** | |
| **Clientele** | **Targets** | **Achievement** | **Targets** | **Achievement** | **Targets** | **Achievement** | **Targets** | **Achievement** |
| Farmers | 84 | 84 | 1680 | 1680 | 2000 | 3358 | Mass | 13343 |
| Rural youth | 17 | 17 | 170 | 170 |  |  |  |  |
| Extension  Functionaries | 16 | 10 | 160 | 100 |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Seed Production (Qtl.)** | | | **Planting material (Nos.)** | | |
| **5** | | | **6** | | |
| **Target** | **Achievement** | **Distributed to no. of farmers** | **Target** | **Achievement** | **Distributed to no. of farmers** |
| 400 | 580 | Seed supplied to NSC | 20000 | 18500 | - |

|  |  |  |
| --- | --- | --- |
| **Soil/plant/water Analysis** | | |
| **5** | | |
| **Target** | **Achievement** | **No. of farmers covered** |
| 1200 | 0 | 0 |

**I.A TECHNOLOGY ASSESSMENT**

**Summary of technologies assessed under various crops by KVKs**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Thematic areas** | **Crop** | **Name of the technology assessed** | **No. of trials** | **No. of farmers** |
| Varietal Evaluation | Onion | Evaluation of high yielding varieties | 03 | 03 |
| **Total** | | | **03** | **03** |

**Summary of technologies assessed under livestock by KVKs**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Thematic areas** | **Name of the livestock enterprise** | **Name of the technology assessed** | **No. of trials** | **No. of farmers** |
| Disease Management | Buffalo | Use of UMMB feeding (Liking)@2 Kg each -4 brick/Month/Animal for three months feeding | 06 | 06 |
| Dairy Management | Buffalo | Use of supplement feed and Vetmate inj. 02 ml / animal (72 hr before A.I. after 45 days of Calving) | 06 | 06 |
| Disease /Feed Management | Buffalo | Use of Dewormer (10 ml ivermectin inj.)/animal & Receptal inj 5ml (72-96 hrs before AI) + Mineral mixture supplementation @ 50 g/day /animal for 45 days | 03 | 03 |
| Poor socio-economic status and malnutrition | Poultry | Use of dual purpose breed (CARI- NIRBHIK) | 03 | 03 |
| Feed Management | Cattle | Use of mineral supplement @ 40-50 g/day till the animals come into heat and conceive. | 01 | 50 |
| **Total** | | | **19** | **68** |

**Summary of technologies assessed under various enterprises by KVKs**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Thematic areas** | **Enterprise** | **Name of the technology assessed** | **No. of trials** | **No. of farmers** |
|  |  |  |  |  |
|  |  |  |  |

**Summary of technologies assessed under various crops by KVKs**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Thematic areas** | **Enterprise** | **Name of the technology assessed** | **No. of trials** | **No. of farmers** |
|  |  |  |  |  |
| **Total** | | |  |  |

**I.B. TECHNOLOGY REFINEMENT**

**Summary of technologies refined under various crops by KVKs**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Thematic areas** | **Crop** | **Name of the technology refined** | **No. of trials** | **No. of farmers** |
|  |  |  |  |  |
|  |  |  |  |  |
| **Total** | | |  |  |

**I.C. TECHNOLOGY ASSESSMENT AND REFINEMENT IN DETAIL**

**OFT -1**

**Problem definition:**  Low productivity & poor quality of growing onion.

**Technology Assessed or Refined :**  Varietal assessment of HYV “Bhima Shakti”.

An On Farm Trial was conducted in sandy loam soil under irrigated conditions for the assessment of high yielding variety “Bhima Shakti” at three locations in Pearl Millet – Potato-Onion cropping system during Zaid 2019. Maximum yield (395 q/ha) were recorded with the variety “Bhima Shakti” while in Farmer Pracice (A.D.R.) 319 q/ha. Uniform neckfall were also recorded in “Bhima Shakti”

**Table – Assessment of high yielding variety of Onion**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Technology assessed/Refined** | **No. of trials** | **Production (q/ha)** | **Net return Rs./ha** | **BC ratio** |
| **T1 F P-Agrifound Light Red**  **T2 -Bhima Shakti** | **03** | **319.00**  **395.00** | **246200.00**  **441333.00** | **3.67**  **4.89** |

**Date of Transplanting -02-07 Feb. 2019 Date of Harvesting – 01-05 June 2019**

**Recommendation:**

1. The “Bhima Shakti” variety gave maximum yield (395 q/ha) followed by farmer practice (ADR)319 q/ha.
2. Highest net return (Rs. 441333) was recorded with Bhima Shakti.
3. Uniform neckfall was also observed in Bhima Shakti.

**Farmer’s Reaction :**

1. Only 115-120 days taken to attain bulb maturity.
2. Bulbs attains immediate attractive red colour after harvest.
3. Very less double bulbs and bolters were recorded in Bhima Shakti.
4. Fetches good market price due to attractive bulb colour purple flesh colour.
5. Very good bulb storability (upto 6 months)

**LIVE STOCK**

**OFT – 2**

**Problem definition:** Higher incidences of repeat breeding in Buffaloes.

**Technology Assessed:** UMMB feeding to control repeat breeding in buffaloes.

The trials were conducted during Dec. 2018 (03 trials in Rabi Season) on 03 repeat breeders buffaloes (buffaloes show oestrus but not conceive even after 4-5 oestrous) at 03 locations village wise, to evaluate the remedial measures for curing repeat breeding. In treatment one i.e.T1 which is farmers practice (as usual feeding of choker & common salt normally), In the treatment T2 i.e. feeding of UMMB (feeding/licking of UMMB @ 2 Kg Block for 7-8 days/animal up to 90 days). Each and every animals should be free from ecto and endo parasites using ivermectin injection @ 01 ml for 50 kg body weight.

**Table - Effect of UMMB feeding / licking in cure/minimize the incidence of repeat breeding (RABI 2018-19)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Technology Option** | **No.of trials** | **Repeat Breeding (Buffaloes)** | |
| Number | % |
| T1 -Farmer’s practice (Use of choker and common salt) | 3 | 03 | 100 |
| T2- Use of Dewormer (Ivermectin inj.) + UMMB feeding (Licking)@2 kg each- 4 brick/ month/animal for three month feeding | 01 | 33  (Rate of Success is 67%) |

**OFT – 3**

**Problem definition:** Higher incidences of repeat breeding in Buffaloes.

**Technology Assessed:** UMMB feeding to control repeat breeding in buffaloes.

The trials were conducted during May 2019 (03 trials in Kharif Season) on 03 repeat breeders buffaloes (buffaloes show oestrus but not conceive even after 4-5 oestrous) at 03 locations village wise, to evaluate the remedial measures for curing repeat breeding. In treatment one i.e.T1 which is farmers practice (as usual feeding of choker & common salt normally), In the treatment T2 i.e. feeding of UMMB (feeding/licking of UMMB @ 2 Kg Block for 7-8 days/animal up to 90 days). Each and every animals should be free from ecto and endo parasites using ivermectin injection @ 01 ml for 50 kg body weight.

**Table - Effect of UMMB feeding / licking in cure/minimize the incidence of repeat breeding (KHARIF 2018)**

|  |  |  |  |
| --- | --- | --- | --- |
| **KHRIF 2019 Technology Option** | **No.of trials** | **Repeat Breeding (Buffaloes)** | |
| Number | % |
| T1 -Farmer’s practice (Use of choker and common salt) | 3 | 03  (Repeat) | 100 |
| T2- Use of Dewormer (10 ml ivermectin )/animal & UMMB feeding (Licking)@2 kg each for 8-10 days, 4 brick/ month/animal for three month feeding | 01  (Repeat) | 33  (Rate of Success is 67%) |

**Farmers Reaction :**

1. The A.H. Deptt. should organize regular camps in the villages to tackle repeat breeding

problem.

2. The mineral deficiency and poor nutrition is a major problem among animals due to

imbalance nutrition/feeding application in buffaloes.

3. The repeat breeding problem is also due to lack of diversity in feed &fodder and lack of pasture.

**OFT– 4**

**Problem definition:** Higher incidences of post-calving anoestrous

**Technology Assessed:** Evaluation of clinical and non-clinical treatment for post-calving

anoestrous in Buffaloes.

The trials were conducted during Dec. 2018 (03 trials in Kharif Season) on 03 repeat breeders buffaloes (buffaloes did not show oestrus between second to fourth lactation after 3-4 months of calving) at three locations village wise, to evaluate the remedial measures for curing post calving anoestrus. In treatment one i.e.T1 which is farmers practice (feeding of choker & common salt), Even single buffalo did not responded or conceived. In the treatment T2 i.e. nonclinical remedies (Vetmate (Gonadotrophic hormone) inj 2 ml (72 hrs before AI) and feeding of minerals mixture@ 50gm/day/animal up to 45 days) three buffalo responded. Each and every animals should be free from ecto and endo parasites using ivermectin injection @ 01 ml for 50 kg body weight.

**Table - Effect of minerals mixture+ Vetmate cure/minimize the post-calving anoestrous (RABI 2018-19)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Technology Option** | **No.of trials** | **Post calving anoestrous (Buffaloes)** | |
| Number | % |
| T 1 -Farmer’s practice (Use of choker and common salt) | 3 | 03 | 100 |
| T2- Use of Vetmate (Gonadotrophic hormone) inj 2 ml (72 hrs before AI) after 45 days of calving + Mineral mixture supplementation @ 50 g/day /animal for 45 days | 0 | (Rate of Success is 100%) |

**OFT – 5**

**Problem definition:** Higher incidences of post-calving anoestrous

**Technology Assessed:** Evaluation of clinical and non-clinical treatment for post-calving

anoestrous in Buffaloes.

The trials were conducted during May 2019 (03 trials in Kharif Season) on 03 repeat breeders buffaloes (buffaloes did not show oestrus between second to fourth lactation after 3-4 months of calving) at three locations village wise, to evaluate the remedial measures for curing post calving anoestrus. In treatment one i.e.T1 which is farmers practice (feeding of choker & common salt), Even single buffalo did not responded or conceived. In the treatment T2 i.e. nonclinical remedies (Vetmate (Gonadotrophic hormone) inj 2 ml (72 hrs before AI) and feeding of minerals mixture@ 50gm/day/animal up to 45 days) two buffalo responded. Each and every animals should be free from ecto and endo parasites using ivermectin injection @ 01 ml for 50 kg body weight.

**Table - Effect of minerals mixture+ Vetmate cure/minimize the post-calving anoestrous (KHARIF 2019)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Technology Option** | **No.of trials** | **Post calving anoestrous (Buffaloes)** | |
| Number | % |
| T 1 -Farmer’s practice (Use of choker and common salt) | 3 | 03 | 100 |
| T2- Use of Vetmate (Gonadotrophic hormone) inj 2 ml (72 hrs before AI) after 45 days of calving + Mineral mixture supplementation @ 50 g/day /animal for 45 days | 01 | (Rate of Success is 67%) |

**Recommendation :** Present trial revealed that in T1 the conception rate was 0%, in T2 (clinical) 100% and 67 % respectively responded & conceived.

**Farmers Reaction :**

1. The A.H. Deptt. should organize regular camps in the villages to tackle anoestrous problem.

2. The mineral deficiency and poor nutrition is a major problem among animals due to imbalance nutrition/feeding application in buffaloes.

3. The anoestrous problem is also due to lack of diversity in feed &fodder and lack of pasture.

**OFT – 6**

**Technology Assessed: On Farm validation trials on mineral supplement**

On-farm validation trials to assess the impact of mineral supplement will be undertaken at farm-gate level with a special focus on problematic dairy animals. Response to the mineral supplementation will be ascertained by measuring relevant parameters related to production and reproduction. Farmers’ perception will be recorded about socio-economic feasibility of the mineral supplement.

**Table - On Farm validation trials on mineral supplement- sponsored by IVRI Bareilly (RABI 2018-19)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Technology Option** | **No.of trials** | **Results** | |
| Number | Numbers |
| T 1 -Farmer’s practice (Use of choker and common salt) | 50 | 10 farm animals | No. of animal conceive = 0 |
| T2- The experimental animals will be given mineral supplement @ 40-50 g/day. The amount of concentrate mixture will be provided as per the farmers’ practices. Basal diet of cereal straws (wheat/paddy) or sugarcane top will be offered *ad libitum*. The feeding of mineral supplement will be continued till the animals come into heat and conceive. The confirmation of pregnancy will be done at 2 months post-mating | **Buffalo Heifers** |  |
| Total | 40 |
| No. of animal Responded | 34 |
| No. of animal repeated | 3 |
| No. of animal conceive | 31 |
| **Lactating Buffalo** |  |
| Total | 10 |
| No. of animal Responded | 9 |
| No. of animal repeated | 1 |
| No. of animal conceive | 8 |
| Milk yield increase | 21.53% |

**Recommendation :** Present trial revealed that in T1 the conception rate was 0%, in T2 Heifers Conceived 77.5% and Lactating buffalo Conceived 80 % with increase of milk yield 21.53%.

**Farmers Reaction :**

1. The mineral deficiency and poor nutrition is a major problem among animals due to imbalance nutrition/feeding application in buffaloes.

**OFT – 7**

**Problem definition:** Control of repeat breading

**Technology Assessed: Assessment of clinical and non-clinical remedies in controlling repeat breeding**

The trials were conducted during May 2019 (03 trials in Kharif Season) on 03 repeat breeders buffaloes (buffaloes did not show oestrus between second to fourth lactation after 3-4 months of calving) at three locations village wise, to evaluate the remedial measures for curing repeat breading. In treatment one i.e.T1 which is farmers practice (feeding of choker & common salt), Even single buffalo did not responded or conceived. In the treatment T2 i.e. **Use of Dewormer (10 ml ivermectin inj.)/animal & Receptal inj 5ml (72-96 hrs before AI) + Mineral mixture supplementation @ 50 g/day /animal for 45 days three** buffalo responded. Each and every animals should be free from ecto and endo parasites using ivermectin injection @ 01 ml for 50 kg body weight.

|  |  |  |  |
| --- | --- | --- | --- |
| Technology Option | No.of trials | Post calving anoestrous (Buffaloes) | |
| Number | % |
| T 1 -Farmer’s practice (Use of choker and common salt) | 3 | 03(Repeat) | 100 |
| T2- Use of Dewormer (10 ml ivermectin inj.)/animal & Receptal inj 5ml (72-96 hrs before AI) + Mineral mixture supplementation @ 50 g/day /animal for 45 days | 0(Repeat) | (Rate of Success is 100%) |

|  |  |
| --- | --- |
| **Interference & Feed back** | Use of concentrate @2.5 kg/day/animal & mineral mixture @ 50g/day/animal up to 45 days along with Inj. Receptal 5ml (72-96 hrs before Al) resulted in better conception (100%) as compared to farmers practice. |
| **Farmers Reaction** | Farmers are ready to accept this technology in the area. |

**OFT – 8**

**Problem definition: Poor socio-economic status and malnutrition**

**Technology Assessed: Enhancing socio-economic status by rearing of backyard poultry**

The trials were conducted during May 2019 (03 trials in Kharif Season) at three locations village wise. In treatment one i.e.T1 which is farmers practice (local breed), In the treatment T2 i.e. **Use of dual purpose breed (CARI- NIRBHIK).**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Treatments** | **Yield with Unit** | **% change in Yield** | **Parameter\*** | **Net Income** |
| **T1** | **59 eggs /Hen** | **-** | **Egg Production** | **Rs. 413/Hen @ Rs. 7/egg** |
| **T2** | **87 eggs/Hen** | **47.45 (egg production)** | **Egg Production** | **Rs. 609/Hen @ Rs. 7/egg** |

|  |  |
| --- | --- |
| **Interferance & Feed back** | **Excellent Results and ready to accept improved breed of poultry (CARI\_NIRBHIK)** |
| **Farmers Reaction** | **Accepted so many farmers** |

**II. FRONTLINE DEMONSTRATION**

a. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2018 and recommended for large scale adoption in the district

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| S.N. | Crop/  Enterprise | Thematic Area\* | Technology demonstrated | Details of popularization methods suggested to the Extension system | Horizontal spread of technology | | |
|  |  |  |  |  | No. of villages | No. of farmers | Area in ha/ Animals |
| **YEAR 2018** | |  |  |  |  |  |  |
| 1 | Bajra | Varietal evaluation | Use of improved var. | Use of improved varieties of bajra produced higher grain yield by 11.08% alongwith 22.36 % more net return as compared to farmers practice. | 10 | 15 | 18 |
| 2 | Paddy | INM | Foliar spray of micronutrient | Disease free crop, good yield, Net income increased upto 38.2% | 16 | 26 | 15 |
| 3 | Bitter gourd | IPM | Pheromone trap against fruit fly | It is highly effective against fruit fly management in cucurbits | 10 | 18 | 19 |
| 4 | Paddy | IPM | Use of Buprofezin 25% against BPH | Effective and safer technology for management of Yellow stem borer | 06 | 10 | 10 |
| 5 | Potato | IDM | Metalaxyl 8 % + Mencozeb 64 % against late blight | Effective and excellent fungicide against late blight | 12 | 31 | 38 |
| 6 | Cabbage | IPM | Emamectin Benzoate against DBM | Highly effective insecticide for the management of DBM | 06 | 14 | 16 |
| 7 | Wheat | Weed Management | Use of Sulfosulfuron + Metsulfuron methyl | Weed control in wheat by using weedicide Sulfosulfuron + Metsulfuron methyl had reduced the population of weeds in crop resulted in higher yield (7.86 %) and net returns (13.41%) from the wheat crops. | 06 | 10 | 10 |
| 8 | Cauliflower | Varietal evaluation | Use of improved var. Sabour Agrim | White curd colour, better yield and uniform maturity | 08 | 14 | 14 |
| 9 | Tomato | INM | Foliar spray of micronutrient | Use of ZN, B, Cu, Fe 01 gm/lt each increase yield and keeping quality of fruits | 07 | 15 | 15 |

b. Details of FLDs implemented during **2019** (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops**.)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S.N. | | Crop | | Thematic area | | Tech. Demo. | | Season and year | | Area (ha) | | | | No. of farmers/  demonstration | | | | | | Reasons for shortfall in achievement | |
| Prop. | | Actual | | SC/ST | | Others | | Total | |  | |
| 1 | | Paddy | | IPM | | Use of Buprofezin 25% against BPH | | Kharif 19 | | 4.00 | | 4.00 | | 08 | | 02 | | 10 | |  | |
| 2 | | Cucubits | | Disease management | | Use of Pheromontrap | | Kharif 19 | | 2.00 | | 2.00 | | 06 | | 04 | | 10 | |  | |
| 3 | | Potato | | IDM | | Metalaxyl 8 % + Mencozeb 64 % against late blight | | Rabi 18-19 | | 4.00 | | 4.00 | | 11 | | 09 | | 20 | |  | |
| 4 | | Chilli | | IPM | | Emamectin Benzoate against DBM | | Rabi 18-19 | | 5.20 | | 5.20 | | 12 | | 01 | | 13 | |  | |
| 5 | | Cauliflower | | Varietal evaluation | | Use of improved var. Sabour Agrim | | Zaid 19 | | 3.00 | | 3.00 | | - | | 15 | | 15 | |  | |
| 6 | | Tomato | | INM | | Foliar spray of micronutrient | | Zaid 19 | | 3.00 | | 3.00 | | - | | 15 | | 15 | |  | |

**Details of farming situation**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Crop** | **Season** | **Farming situation** | **Soil type** | **Status of Soil** | | | **Previous crop** | **Sowing date/TSP** | **Harvest date** | **Seasonal rainfall** | **No. of rainy days** |
| N | P | K |
| Paddy | Kharif 19 | Irrigated | Sandy loam | L | M | M | Wheat | 11.07.19 | 27.10.19 | 432 mm | 22 |
| Cucubits | Kharif 19 | Irrigated | Sandy loam | L | M | M | Mustard | 10.05.19 | 27.08.19 | 432 mm | 22 |
| Potato | Rabi 18-19 | Irrigated | Sandy | L | M | L | Maize | 20.10.18 | 07.03.19 | 52 mm | 04 |
| Chilli | Rabi 18-19 | Irrigated | Sandy | L | M | L | Maize | 10.11.18 | 25.01.19 | 52 mm | 04 |
| Cauliflower | Kharif 19 | Irrigated | Sandy | L | M | L | Cucumber | 13.07.19 | 25.09.19 | 412 mm | 22 |
| Tomato | Zaid 19 | Irrigated | Sandy | L | M | M | Cauliflower | 03.01.19 | 16.04.19 | 52 mm | 04 |

**Technical Feedback**

|  |  |  |
| --- | --- | --- |
| **S.N.** | **Crop** | **Feedback** |
| **1** | Paddy | Use of Buprofezin against BPH gave 20.95% more yield |
| **2** | Cucurbits | Effective and safer technology for management of fruit fly |
| **3** | Potato | Effective and excellent fungicide against late blight |
| **4** | Chilli | Highly effective insecticide for the management of DBM |
| **5** | Cauliflower | White curd colour, better yield and uniform maturity |
| **6** | Tomato | Use of micronutrient increased the tomato yield |

**Farmers reaction** –

|  |  |  |
| --- | --- | --- |
| **S.N.** | **Crop** | **Feedback** |
| **1** | Paddy | It is good insecticide for the management of BPH |
| **2** | Cucurbits | It is effective technology against fruit fly |
| **3** | Potato | The use of metalaxyl 8 % + Mancozeb 64% is effective to control the late blight in potato |
| **4** | Chilli | Highly effective insecticide |
| **5** | Cauliflower | Farmers like due to early maturity and white colored curd for get better price |
| **6** | Tomato | Higher income due to more production and market value |

Extension and Training activities under FLD

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.N.** | Activity | **No. of activities organized** | **Date** | **No. of participants** | **Remark** |
| **1** | Field days | 02 | 27.09.19  21.02.19 | 38  35 |  |
| **2** | Farmers Training | 05 | 06.07.19  06.09.19  26.12.18  15.02.19  10.06.19 | 20  20  20  20  20 |  |

Performance of FLD

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Crop** | **Thematic Area** | **Technology demonstrated** | **Variety** | **No. of Farmers** | **Area**  **(ha)** | **Yield (q/ha)** | | | | **% Increase in yield** |
|  |  |  |  |  |  | **Demo** | | | **Check** |  |
| **High** | **Low** | **Average** |
| Paddy | IPM | Use of Buprofezin 25% against BPH | Pusa B.-1 | 10 | 4.00 | 40.86 | 36.92 | 38.53 | 31.87 | 20.95 |
| Cucurbits | IPM | Use of Pheromone trap | Sungrow-165 | 10 | 2.00 | 428.63 | 354.76 | 398.61 | 319.52 | 25.09 |
| Potato | IDM | Cymoxinel 8 % + Mancozeb 64 % against late blight | K Chipsona- 1 | 20 | 4.00 | 364.15 | 335.28 | 348.65 | 264.08 | 32.06 |
| Chilli | IPM | Emamectin Benzoate against DBM | Mahyco  C-261 | 13 | 5.20 | 355.20 | 341.15 | 347.76 | 278.71 | 25.00 |
| Cauliflower | Varietal evaluation | Use of improved var. | Sabour Agrim | 15 | 3.00 | 161.00 | 141.00 | 149.20 | 114.20 | 30.64 |
| Tomato | INM | Foliar spray of micronutrient | Himsona | 15 | 3.00 | 237.00 | 200.00 | 216.20 | 192.26 | 12.45 |

Economic Performance of FLD

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Crop** | **\*Economics of demonstration (Rs./ha)** | | | | **\*Economics of check**  **(Rs./ha)** | | | |
|  | **Gross**  **Cost** | **Gross**  **Return** | **Net Return** | **\*\***  **BCR** | **Gross**  **Cost** | **Gross**  **Return** | **Net Return** | **\*\***  **BCR** |
| Paddy | **31570** | **56449** | **24879** | **2.14** | **31300** | **54219** | **22919** | **1.78** |
| Cucurbits | **48532** | **142374** | **93842** | **2.42** | **42196** | **106803** | **64607** | **2.02** |
| Potato | **67653** | **174327** | **106675** | **2.58** | **66872** | **132041** | **65170** | **1.97** |
| Chilli | **76750** | **521339** | **444889** | **6.79** | **76300** | **418370** | **341496** | **5.48** |
| Cauliflower | **50000** | **134280** | **84280** | **2.67** | **50000** | **102780** | **52780** | **2.05** |
| Tomato | **58000** | **129270** | **71720** | **2.23** | **58000** | **115360** | **57360** | **1.99** |

**Performance of Cluster Frontline demonstrations**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S.N | Crop | Thematic area | Tech. Demo. | Season and year | Area (ha) | | No. of farmers/  demonstration | | | Reasons for shortfall in achievement |
| Prop. | Actual | SC/ST | Others | Total |  |
| 1 | | Urd | ICM | Use of improved var. PU-31 | Kharif 19 | 10 | 10.36 | 18 | 07 | 25 |  |
| 2 | | Field  Pea | ICM | Use of improved var. IPFD1012 | Rabi  18-19 | 10 | 5.20 | 13 | - | 13 |  |
| 3 | | Lentil | ICM | Use of improved var. PL-8 | Rabi  18-19 | 10 | 10 | 14 | 11 | 25 |  |

*Frontline demonstration on pulse crops*

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Crop** | **Thematic Area** | **Technology demonstrated** | **Variety** | **No. of Farmers** | **Area**  **(ha)** | **Yield (q/ha)** | | | | **% Increase in yield** |
| **Demo** | | | **Check** |
| **High** | **Low** | **Average** |
| Urd | ICM | Use of improved var. | **PU -31** | **25** | **10** | **8.13** | **7.58** | **7.86** | **6.82** | **15.34** |
| Field Pea | ICM | Use of improved var. | **IPFD1012** | **13** | **5.20** | **23.16** | **17.02** | **19.67** | **16.74** | **17.50** |
| Lentil | ICM | Use of improved var. | **PL-8** | **25** | **10** | **14.28** | **10.65** | **12.53** | **9.95** | **25.93** |

Economic Performance of Pulse CFLD

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Crop** | **\*Economics of demonstration (Rs./ha)** | | | | **\*Economics of check**  **(Rs./ha)** | | | |
|  | **Gross**  **Cost** | **Gross**  **Return** | **Net Return** | **\*\***  **BCR** | **Gross**  **Cost** | **Gross**  **Return** | **Net Return** | **\*\***  **BCR** |
| Urd | **26260** | **37738** | **11478** | **1.44** | **25900** | **32728** | **6828** | **1.26** |
| Field Pea | **27500** | **62929** | **35429** | **2.29** | **26500** | **53556** | **27056** | **2.02** |
| Lentil | **25500** | **65177** | **39677** | **2.56** | **24500** | **51750** | **27250** | **2.10** |

**Details of farming situation**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Crop** | **Season** | **Farming situation** | **Soil type** | **Status of Soil** | | | **Previous crop** | **Sowing date** | **Harvest date** | **Seasonal rainfall** | **No. of rainy days** |
| N | P | K |
| Urd | Kharif 19 | Irrigated | Sandy loam | L | M | L | Wheat | 24.07.19 | 10.10.19 | 432 mm | 26 |
| Field Pea | Rabi 18-19 | Irrigated | Sandy loam | L | M | L | Bajra | 24.11.18 | 27.03.19 | 52 mm | 04 |
| Lentil | Rabi 18-19 | Irrigated | Sandy loam | L | M | L | Bajra | 20.11.18 | 28.03.19 | 52 mm | 04 |

**Technical Feedback**

|  |  |  |
| --- | --- | --- |
| **SN.** | **Crop** | **Feedback** |
| **1** | Urd | Use of improved variety and integrated crop management helps in growth & development of crop resulted in higher production of crop. |
| **2** | Field Pea | Use of improved variety and integrated crop management helps in growth & development of crop resulted in higher production of crop. |
| **3** | Lentil | Use of improved variety and integrated crop management helps in growth & development of crop resulted in higher production of crop & better profit. |

**Farmers reaction** –

|  |  |  |
| --- | --- | --- |
| **SN.** | **Crop** | **Feedback** |
| **1** | Urd | Use of improved variety resulted in higher yield of the crop and more income to the farmers. |
| **2** | Field Pea | Use of improved variety resulted in higher yield of the crop and more income to the farmers. |
| **3** | Lentil | Use of improved variety resulted in higher yield of the crop and more income to the farmers. |

Extension and Training activities under FLD

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SN.** | Activity | **No. of activities organized** | **Date** | **No. of participants** | **Remark** |
| **1** | Field days | 04 | 14.09.19  21.11.18  13.12.18  22.12.18 | 33  20  20  25 |  |
| **2** | Farmers Training | 04 | 26.09.19  17.07.19  16.11.18  17.11.18 | 25  20  50  20 |  |

**Details of Enterprises (Live Stock)**

FLD on Livestock KHARIF 2019

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Category** | **Thematic area** | **Name of the technology demonstrated** | **No. of Farmer** | **No.of Units (Animal/ Poultry/ Birds, etc)** | **Milk Production lt/day/ Body weight (gm)** | | **% Increase** |
| **Demo.** | **F.P.** |
| Buffaloes | Disease Management | Use of Ivermectin Inj. | 05 | 05 | 4.85-5.10 | 4.55-4.20 | Milk production increased 21.42% by Ivermectin Inj. |
| Buffaloes | Nutrition /Feed management | Use of calcium + Phosphorus and vit. D3 | 05 | 05 | 4.95-5.55 | 4.60-4.20 | Milk production increased 32.14% |
| Chicken (Broiler) | Nutrition /Feed management | Use of vitamin & mineral mixture | 05 | 05 | 2140 gm **Body weight 1.11% mortality** | 1970 gm **Body weight 4.80% mortality** | Body weight improved 8.63 % & mortality reduced 3.69 % |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Category** | **Other parameter** | | **Economics of demonstration (Rs.)** | | | | **Economics of check**  **(Rs.)** | | | |
| **Demo** | **Check** | **Gross**  **Cost** | **Gross**  **Return** | **Net**  **Return** | **BCR**  **(R/C)** | **Gross**  **Cost** | **Gross**  **Return** | **Net**  **Return** | **BCR**  **(R/C)** |
| Buffaloes | 5.10 lt | 4.20 lt | 89.5/day | 149.6 /day | 63.1/day | 1.70 | 88/day | 131.6 /day | 46.6/day | 1.53 |
| Buffaloes | 5.55 lt | 4.20 lt | 96/day | 161.9/ day | 73.9/day | 1.76 | 93/day | 131.60 /day | 38.6/day | 1.42 |
| Chicken (Broiler) | 2250gm**B.W.** | 1970 gm **B.W.** | 3.10/day | 4.10/day | 1.0/day | 1.16 | 2.80/day | 3.15/day | 0.35/day | 1.13 |

**a. Results of FLDs implemented during the year (Rabi 18-19)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Category** | **Thematic area** | **Name of the technology demonstrated** | **No. of Farmer** | **No.of Units (Animal/ Poultry/ Birds, etc)** | **Milk Production lt/day** | | **Milk Production lt/day** |
| **Demo.** | **F.P.** |
| Buffaloes | Disease Management | Use of Ivrmectin Inj. | 05 | 05 | 4.00- 4.50 lt | 4.55-4.20 lt | Milk production increased 20.19% by Ivermectin Inj. |
| Buffaloes | Nutrition/Feed management | Use of calcicum + Phosphorus and vit. D3 | 05 | 05 | 5.00-5.48 lt | 4.60-4.20 lt | Milk production increased 19.28% |
| Chicken (Broiler) | Nutrition /Feed management | Use of vitamin & mineral mixture | 05 | 05 | 2170 gm  **Body weight**  **1.15 % mortality** | 2000 gm **Body weight**  **4.80% mortality** | Body weight improved 8.50 % & mortality reduced 3.65 % |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Category** | **Other parameter** | | **Economics of demonstration (Rs.)** | | | | **Economics of check**  **(Rs.)** | | | |
| **Demo** | **Check** | **Gross**  **Cost** | **Gross**  **Return** | **Net**  **Return** | **BCR**  **(R/C)** | **Gross**  **Cost** | **Gross**  **Return** | **Net**  **Return** | **BCR**  **(R/C)** |
| Buffaloes | 4.50 lt | 4.00 lt | 108/day | 172/day | 64/day | 1.56 | 100/day | 138day | 38/day | 1.40 |
| Buffaloes | 5.48 lt | 5.00 lt | 128/day | 183/day | 55/day | 1.40 | 113/day | 128/day | 15/day | 1.28 |
| Chicken (Broiler) | 2170 gm  **Body weight**  **1.11 % mortality** | 2000 gm **Body weight**  **8.0% mortality** | 3.50/day | 4.10/day | 0.60/day | 1.71 | 2.75/day | 3.10/day | 0.35/day | 1.31 |

**Technical Feedback**

1. Use of Ivermectin Injection is much effective and safe to the animals because it works for endo-ecto parasite both and farmers are ready to accept this techniques to remove endo-ecto parasite from the animal body.
2. After using Calcium + phosphorus and Vit. D3, the milk production increased by 19.28 % and its also increases lactation length and reduces infertility in animals.
3. Using of vitamins and minerals in broiler chicken, its increased body weight 8.50 % and reduces mortality 3.65 % and also solving the leg deformities in the chicken.

**Farmers reaction**

1. As per farmers reactions all the above techniques are very useful for the farmers to improve yield as well as economic returns.

**FLD on Demonstration details on crop hybrids** *(Details of Hybrid FLDs implemented during* **2019***)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Crop** | **Technology demonstrated** | **Hybrid Variety** | **No. of Farmers** | **Area**  **(ha)** | **Yield (q/ha)** | | | | **% Increase in yield** | **Economics of demonstration (Rs./ha)** | | | |
| **Demo** | | | **Check** | **Gross**  **Cost** | **Gross**  **Return** | **Net Return** | **BCR**  **(R/C)** |
| **High** | **Low** | **Average** |
| **Oilseed crop** | |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pulse crop** | |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Cereal crop** | |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Vegetable crop** | |  |  |  |  |  |  |  |  |  |  |  |  |
| Chilli | Fruit borer management | Rashi 078 | 13 | 5.20 | 355.20 | 341.15 | 347.76 | 278.71 | 25.0 | 76750 | 521339 | 444889 | 7.0 |
| Tomato | Nutrition management | Himsona | 15 | 3.00 | 237.00 | 200.00 | 216.20 | 19.26 | 14.46 | 58000 | 129270 | 71720 | 2.24 |
| **Fruit crop** | |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

III. Training Programme **(Jan 2019 to December 2019)**

**Farmers’ Training including sponsored training programmes**

**A) On Campus**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thematic Area | No. of courses | No. of participants | | | | | | |
| Others | | | SC/ST\* | | | Grand Total |
| Male | Female | Total | Male | Female | Total |
| **A) Farmers & Farm Women** | |  |  |  |  |  |  |  |
| **Crop Production** |  |  |  |  |  |  |  |  |
| Production of organic input | 01 | 20 | - | 20 | - | - | - | 20 |
| ICM | 02 | 40 | - | 40 | - | - | - | 40 |
| INM | 01 | 19 | - | 19 | 01 | - | 01 | 20 |
| **Plant Protection** |  |  |  |  |  |  |  |  |
| IPM | 02 | 13 | - | 13 | 27 | - | 27 | 40 |
| IDM | 02 | 37 | - | 37 | 03 | - | 03 | 40 |
| **Animal Science** |  |  |  |  |  |  |  |  |
| Animal Nutrition management | 03 | 54 | - | 54 | 06 | - | 06 | 60 |
| Disease management | 01 | 20 | - | 20 | - | - | - | 20 |
| **Horticulture** |  |  |  |  |  |  |  |  |
| Production Management technology | 02 | 30 | - | 30 | 03 | - | 10 | 40 |
| Production Management technology on Medicinal Plant | 01 | 17 | - | 17 | 01 | - | 03 | 20 |
| Propagation techniques of Ornamental Plants | 01 | 07 | - | 07 | 01 | - | 13 | 20 |
| **Soil Science** |  |  |  |  |  |  |  |  |
| Soil & water conservation | 01 | 20 | - | 20 | - | - | - | 20 |
| Micro nutrient deficiency in crops | 01 | 20 | - | 20 | - | - | - | 20 |
| INM | 01 | 17 | - | 17 | 03 | - | 03 | 20 |
| Soil fertility | 01 | 18 | - | 18 | 02 | - | 02 | 20 |
| **Total** | **20** | **353** | **-** | **353** | **47** | **-** | **47** | **400** |

**Off Campus**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thematic Area | | No. of courses | No. of participants | | | | | | |
| Others | | | SC/ST | | | Grand Total |
| Male | Female | Total | Male | Female | Total |
| **B) Farmers & Farm Women** | |  |  |  |  |  |  |  |  |
| **A) Farmers & Farm Women** | | |  |  |  |  |  |  |  |
| **Crop Production** |  | |  |  |  |  |  |  |  |
| INM | 01 | | 20 | - | 20 | - | - | - | 20 |
| Weed Management | 01 | | 20 | - | 20 | - | - | - | 20 |
| ICM | 07 | | 112 | 06 | 118 | 22 | - | 22 | 140 |
| Inter Cropping system | 02 | | 40 | - | 40 | - | - | - | 40 |
| Resource conservation technology | 01 | | 20 | - | 20 | - | - | - | 20 |
| Fodder management | 01 | | 15 | - | 15 | 05 | - | 05 | 20 |
| Nursery management | 02 | | 39 | - | 39 | 01 | - | 01 | 40 |
| **Plant Protection** |  | |  |  |  |  |  |  |  |
| IPM | 11 | | 46 | - | 46 | 160 | 14 | 174 | 220 |
| IDM | 01 | | - | - | - | 20 | - | 20 | 20 |
| **Animal Science** |  | |  |  |  |  |  |  |  |
| Animal Nutrition management | 04 | | 72 | - | 72 | 08 | - | 08 | 80 |
| Dairy management | 02 | | 36 | - | 36 | 04 | - | 04 | 40 |
| Management of farm animals | 02 | | 37 | - | 37 | 03 | - | 03 | 40 |
| Disease management | 04 | | 73 | - | 73 | 07 | - | 07 | 80 |
| **Horticulture** |  | |  |  |  |  |  |  |  |
| Production Management technology of flowers | 01 | | 20 | - | 20 | - | - | - | 20 |
| Production Management technology of vegetable | 02 | | 40 | - | 40 | - | - | - | 40 |
| Production mgt. of MAP | 02 | | 40 | - | 40 | - | - | - | 40 |
| Packaging and transport | 01 | | 15 | - | 15 | 05 | - | 05 | 20 |
| Nursery raising | 03 | | 55 | - | 55 | 05 | - | 05 | 60 |
| Training and pruning | - | | - | - | - | - | - | - | - |
| Mulching in fruits | 01 | | 20 | - | 20 | - | - | - | 20 |
| Crop regulation | 01 | | 20 | - | 20 | - | - | - | 20 |
| Layout and management of orchard | 01 | | 20 | - | 20 | - | - | - | 20 |
| Exotic vegetables | 01 | | 15 | - | 15 | 05 | - | 05 | 20 |
| Off season vegetables | 01 | | 20 | - | 20 | - | - | - | 20 |
| Machan cultivation | 01 | | 10 | - | 10 | 10 | - | - | 20 |
| **Soil Science** |  | |  |  |  |  |  |  |  |
| INM | 02 | | 28 | 02 | 30 | 10 | - | 10 | 40 |
| ICM | 01 | | 20 | - | 20 | - | - | - | 20 |
| Management of problematic soil | 01 | | 20 | - | 20 | - | - | - | 20 |
| Soil & water testing | 02 | | 40 | - | 40 | - | - | - | 40 |
| Micronutrient deficiency in crops | 01 | | 15 | - | 15 | 05 | - | 05 | 20 |
| Soil fertility management | 02 | | 40 | - | 40 | - | - | - | 40 |
| Nutrient use efficiency | 01 | | 16 | - | 16 | 04 | - | 04 | 20 |
| **TOTAL** | **64** | | **984** | **08** | **992** | **274** | **14** | **288** | **1280** |

**B. RURAL YOUTH**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thematic Area | No. of courses | No. of participants | | | | | | |
| Others | | | SC/ST | | | Grand Total |
| Male | Female | Total | Male | Female | Total |
| **Agronomy** |  |  |  |  |  |  |  |  |
| NADEP | 01 | 08 | - | 08 | 02 | - | 02 | 10 |
| Seed production | 02 | 15 | - | 15 | 05 | - | 05 | 20 |
| Vermi culture Production | 01 | 07 | - | 07 | 03 | - | 03 | 10 |
| **Plant Protection** |  |  |  |  |  |  |  |  |
| Bee Keeping | 03 | 11 | - | 11 | 19 | - | 19 | 30 |
| Mushroom Production | 01 | 05 | - | 05 | 05 | - | 05 | 10 |
| **Animal Science** |  |  |  |  |  |  |  |  |
| Dairying | 02 | 20 | - | 20 | - | - | - | 20 |
| Poultry production | 01 | 10 | - | 10 | - | - | - | 10 |
| Goat rearing | 01 | 10 | - | 10 | - | - | - | 10 |
| **Horticulture** |  |  |  |  |  |  |  |  |
| Nursery mgt. of horticultural crops | 01 | 06 | - | 06 | 04 | - | 04 | 10 |
| Protected cultivation | 02 | 16 | - | 16 | 04 | - | 04 | 20 |
| Commercial Flower Production | 01 | 08 | - | 08 | 02 | - | 02 | 10 |
| Soil Science |  |  |  |  |  |  |  |  |
| Soil testing | 01 | 10 |  | 10 | 10 |  | 10 | 10 |
| **TOTAL** | **17** | **126** | **02** | **126** | 44 | - | 44 | **170** |

**C. EXTENSION FUNCTIONARIES**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thematic Area | No. of courses | No. of participants | | | | | | |
| Others | | | SC/ST | | | Grand Total |
| Male | Female | Total | Male | Female | Total |
| **Agronomy** |  |  |  |  |  |  |  |  |
| Production and use of organic input | 01 | 08 |  | 08 | 02 | - | 02 | 10 |
| INM | 01 | 10 | - | 10 | - | - | - | 10 |
| Resource conservation technology | 01 | 10 | - | 10 | - | - | - | 10 |
| **Animal Science** |  |  |  |  |  |  |  |  |
| Management in farm animals | 03 | 25 | - | 25 | 05 | - | 05 | 30 |
| **Horticulture** |  |  |  |  | - | - | - |  |
| Rejuvenation of orchard | 01 | 07 | - | 07 | 03 | - | 03 | 10 |
| Micro irrigation system | 01 | 06 | - | 06 | 04 | - | 04 | 10 |
| Low Volume and high value vegetable production | 01 | 06 | - | 06 | 04 | - | 04 |  |
| **Plant Protection** |  |  |  |  |  |  |  |  |
| Mushroom Production | 01 | 10 | - | 10 | - | - | - | 10 |
| Total | **10** | **82** | **-** | **82** | **18** | **-** | **18** | **100** |

**CONSOLIDATED ON & OFF**

**A)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thematic Area | No. of courses | No. of participants | | | | | | |
| Others | | | SC/ST | | | Grand Total |
| Male | Female | Total | Male | Female | Total |
| **A) Farmers & Farm Women** | |  |  |  |  |  |  |  |
| **Agronomy** |  |  |  |  |  |  |  |  |
| Production of organic input | 01 | 20 | - | 20 | - | - | - | 20 |
| ICM | 09 | 152 | 06 | 158 | 22 | - | 22 | 180 |
| INM | 02 | 39 | - | 39 | 01 | - | 01 | 40 |
| Weed Management | 01 | 20 | - | 20 | - | - | - | 20 |
| Inter Cropping system | 02 | 45 | - | 45 | - | - | - | 45 |
| Resource conservation technology | 01 | 18 | - | 18 | 02 | - | 02 | 20 |
| Fodder management | 01 | 15 | - | 15 | 05 | - | 05 | 20 |
| Nursery management | 02 | 39 | - | 39 | 01 | - | 01 | 40 |
| Plant Protection |  |  |  |  |  |  |  |  |
| IDM | 03 | 37 | - | 37 | 23 | - | 23 | 60 |
| IPM | 13 | 59 | - | 59 | 187 | 14 | 201 | 260 |
| **Animal Science** |  |  |  |  |  |  |  |  |
| Disease management | 05 | 93 | - | 93 | 07 | - | 07 | 100 |
| Animal Nutrition management | 07 | 126 | - | 126 | 14 | - | 14 | 140 |
| Dairy management | 02 | 36 | - | 36 | 04 | - | 04 | 40 |
| Management of farm animals | 02 | 37 | - | 37 | 03 | - | 03 | 40 |
| **Horticulture** |  |  |  |  |  |  |  |  |
| Production Management technology | 02 | 30 | - | 30 | 10 | - | 10 | 40 |
| Production Management technology on Medicinal Plant | 01 | 17 | - | 17 | 03 | - | 03 | 20 |
| Propagation techniques of Ornamental Plants | 01 | 07 | - | 07 | 13 | - | 13 | 20 |
| Production Management technology of flowers | 01 | 20 | - | 20 | - | - | - | 20 |
| Production Management technology of vegetable | 02 | 40 | - | 40 | - | - | - | 40 |
| Production mgt. of MAP | 02 | 40 | - | 40 | - | - | - | 40 |
| Packaging and transport | 01 | 15 | - | 15 | 05 | - | 05 | 20 |
| Nursery raising | 03 | 55 | - | 55 | 05 | - | 05 | 60 |
| Mulching in fruits | 01 | 20 | - | 20 | - | -- | - | 20 |
| Crop regulation | 01 | 20 | - | 20 | - | - | - | 20 |
| Layout and management of orchard | 01 | 20 | - | 20 | - | - | - | 20 |
| Exotic vegetables | 01 | 15 | - | 15 | 05 | - | 05 | 20 |
| Off season vegetables | 01 | 20 | - | 20 | - | - | - | 20 |
| Machan cultivation | 01 | 15 | - | 10 | 05 | - | 05 | 20 |
| **Soil Science** |  |  |  |  |  |  |  |  |
| Soil & water conservation | 01 | 20 | - | 20 | - | - | - | 20 |
| Micro nutrient deficiency in crops | 02 | 40 | - | 40 | - | - | - | 40 |
| INM | 03 | 50 | - | 50 | 10 | - | 10 | 60 |
| ICM | 01 | 20 | - | 20 | - | - | - | 20 |
| Management of problematic soil | 01 | 20 | - | 20 | - | - | - | 20 |
| Soil & water testing | 02 | 40 | - | 40 | - | - | - | 40 |
| Micronutrient deficiency in crops | 02 | 30 | - | 30 | 10 | - | 10 | 40 |
| Soil fertility management | 02 | 40 | - | 40 | - | - | - | 40 |
| Nutrient use efficiency | 01 | 16 | - | 16 | 04 | - | 04 | 20 |
| **Total** | **84** | **1345** | **06** | **1351** | **315** | **14** | **329** | **1680** |

**B. RURAL YOUTH**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thematic Area | No. of courses | No. of participants | | | | | | |
| Others | | | SC/ST | | | Grand Total |
| Male | Female | Total | Male | Female | Total |
| **Agronomy** |  |  |  |  |  |  |  |  |
| NADEP | 01 | 08 | - | 08 | 02 | - | 02 | 10 |
| Seed production | 02 | 15 | - | 15 | 05 | - | 05 | 20 |
| Vermi culture Production | 01 | 07 | - | 07 | 03 | - | 03 | 10 |
| **Plant Protection** |  |  |  |  |  |  |  |  |
| Bee Keeping | 03 | 11 | - | 11 | 19 | - | 19 | 30 |
| Mushroom Production | 01 | 05 | - | 05 | 05 | - | 05 | 10 |
| **Animal Science** |  |  |  |  |  |  |  |  |
| Dairying | 02 | 20 | - | 20 | - | - | - | 20 |
| Poultry production | 01 | 10 | - | 10 | - | - | - | 10 |
| Goat rearing | 01 | 10 | - | 10 | - | - | - | 10 |
| **Horticulture** |  |  |  |  |  |  |  |  |
| Nursery mgt. of horticultural crops | 01 | 06 | - | 06 | 04 | - | 04 | 10 |
| Protected cultivation | 02 | 16 | - | 16 | 04 | - | 04 | 20 |
| Commercial Flower Production | 01 | 08 | - | 08 | 02 | - | 02 | 10 |
| Soil Science |  |  |  |  |  |  |  |  |
| Soil testing | 01 | 10 |  | 10 | 10 |  | 10 | 10 |
| **TOTAL** | **17** | **126** | **-** | **126** | 44 | - | 44 | **170** |

**C. EXTENSION FUNCTIONARIES**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thematic Area | No. of courses | No. of participants | | | | | | |
| Others | | | SC/ST | | | Grand Total |
| Male | Female | Total | Male | Female | Total |
| **Agronomy** |  |  |  |  |  |  |  |  |
| Production and use of organic input | 01 | 08 |  | 08 | 02 | - | 02 | 10 |
| INM | 01 | 10 | - | 10 | - | - | - | 10 |
| Resource conservation technology | 01 | 10 | - | 10 | - | - | - | 10 |
| **Animal Science** |  |  |  |  |  |  |  |  |
| Management in farm animals | 03 | 25 | - | 25 | 05 | - | 05 | 30 |
| **Horticulture** |  |  |  |  | - | - | - |  |
| Rejuvenation of orchard | 01 | 07 | - | 07 | 03 | - | 03 | 10 |
| Micro irrigation system | 01 | 06 | - | 06 | 04 | - | 04 | 10 |
| Low Volume and high value vegetable production | 01 | 06 | - | 06 | 04 | - | 04 |  |
| **Plant Protection** |  |  |  |  |  |  |  |  |
| Mushroom Production | 01 | 10 | - | 10 | - | - | - | 10 |
| Total | **10** | **82** | **-** | **82** | **18** | **-** | **18** | **100** |

**Table. Sponsored training programmes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area of training** | **No. of**  **Courses** | **No. of Participants** | | | | | | | | |
| **General** | | | **SC/ST** | | | **Grand Total** | | |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
|  |  |  |  |  |  |  |  |  |  |  |
| **Crop production and management** |  |  |  |  |  |  |  |  |  |  |
| Maize Production technology | **01** | **100** | **-** | **100** | **-** | **-** | **-** | **100** | **-** | **100** |
| Bajra Production technology | **06** | **595** | **-** | **595** | **-** | **-** | **-** | **595** | **-** | **595** |
| Use of Hybrid seed of Maize and pesticide | **01** | **80** | **-** | **80** | **-** | **-** | **-** | **80** | **-** | **80** |
| Use of weedicide in Pulses and oilseeds crops | **01** | **100** | **-** | **100** | **-** | **-** | **-** | **100** | **-** | **100** |
| Maize Production technology | **01** | **100** | **-** | **100** | **-** | **-** | **-** | **100** | **-** | **100** |
| Commercial production of vegetables |  |  |  |  |  |  |  |  |  |  |
| **Production and value addition** |  |  |  |  |  |  |  |  |  |  |
| Fruit Plants | **02** | **50** | **-** | **50** | **-** | **-** | **-** | **50** | **-** | **50** |
| Ornamental plants | **02** | **50** | **-** | **50** | **-** | **-** | **-** | **50** | **-** | **50** |
| Spices crops | **02** | **50** | **-** | **50** | **-** | **-** | **-** | **50** | **-** | **50** |
| Soil health and fertility management |  |  |  |  |  |  |  |  |  |  |
| Production of Inputs at site |  |  |  |  |  |  |  |  |  |  |
| Methods of protective cultivation |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  |  |  |  |  |
| **Post harvest technology and value addition** |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  |  |  |  |  |
| **Farm machinery** |  |  |  |  |  |  |  |  |  |  |
| Farm machinery, tools and implements |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  |  |  |  |  |
| **Livestock and fisheries** |  |  |  |  |  |  |  |  |  |  |
| Livestock production and management |  |  |  |  |  |  |  |  |  |  |
| Animal Nutrition Management |  |  |  |  |  |  |  |  |  |  |
| Animal Disease Management |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  |  |  |  |  |
| **Home Science** |  |  |  |  |  |  |  |  |  |  |
| Household nutritional security |  |  |  |  |  |  |  |  |  |  |
| Drudgery reduction of women |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  |  |  |  |  |
| **Agricultural Extension** |  |  |  |  |  |  |  |  |  |  |
| Capacity Building and Group Dynamics |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  |  |  |  |  |
| **GRAND TOTAL** | **16** | **1125** |  | **1125** |  |  |  | **1125** |  | **1125** |

**IV . Extension Programme**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activities** | **No. of programmes** | **No. of farmers** | **No. of Extension Personnel** | **TOTAL** |
| Advisory services | 762 | 762 | - | 762 |
| Diagnostic visits | 186 | 186 | - | 186 |
| Field day | 06 | 112 | - | 112 |
| Group discussions | 10 | 256 | - | 256 |
| Kisan gosthi | 42 | 6152 | - | 6152 |
| Film Show | 56 | 1234 | - | 1256 |
| Kisan mela under CRM | 01 | 194 | - | 194 |
| Awareness programme under CRM | 04 | 310 |  | 310 |
| Exhibition | 05 | 904 | - | 904 |
| Scientists' visit to farmers field | 258 | 624 | - | 624 |
| Farmers visit to KVK | 1678 | 1678 | - | 1678 |
| Special day celebration | 03 | 105 | - | 105 |
| Mobilization of School and School Students | 01 | 150 | - | 150 |
| Farmers Scientist Interaction | 02 | 100 | - | 100 |
| Five days Training under CRM | 02 | 50 | - | 50 |
| World Honey Bee Day | 01 | 34 | - | 34 |
| Krashak Kalyan Diwas | 01 | 84 | - | 84 |
| World Soil Health day | 01 | 26 | - | 26 |
| **Total** | **3019** | **12961** | **-** | **12961** |

Details of other extension programmes

|  |  |
| --- | --- |
| **Particulars** | **Number** |
| Electronic media | - |
| Extension literature | 08 |
| News paper coverage | 64 |
| Technical articles | - |
| Technical bulletins | 03 |
| Technical reports | 06 |
| Radio talks |  |
| TV talks | 09 |
| **Total** | **90** |

**V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Number of KVKs organised**  **Technology Week** | **Types of Activities** | **No. of**  **Activities** | **Number of**  **Participants** | **Related crop/livestock technology** |
|  | Gosthies |  |  |  |
| Lectures organised |  |  |  |
| Exhibition |  |  |  |
| Film show |  |  |  |
| Fair |  |  |  |
| Farm Visit |  |  |  |
| Diagnostic Practicals |  |  |  |
| Distribution of Literature (No.) |  |  |  |
| Distribution of Seed (q) |  |  |  |
| Distribution of Planting materials (No.) |  |  |  |
| Bio Product distribution (Kg) |  |  |  |
| Bio Fertilizers (q) |  |  |  |
| Distribution of fingerlings |  |  |  |
| Distribution of Livestock specimen (No.) |  |  |  |
| Total number of farmers visited the technology week |  |  |  |

**VI. PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS**

**Production of seeds/Commercial by the KVKs**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Crop | **Name of the crop** | **Name of the variety** | **Name of the hybrid** | **Quantity of seed**  **(q)** | **Value**  **(Rs)** | **Number of farmers** | **No. of KVKs** |
| **Cereals** | Wheat 18-19 | HD3086, PBW-725 | FS | 485.00 | 808418 | NSC |  |
|  | Urd | MASH479 | FS | 21.70 |  | NSC |  |
|  | Paddy | PB1637 | FS | 74.05 |  |  |  |
| **Total** |  |  |  | **580.75** | **854146** |  |  |

# Production of planting materials by the KVKs

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Crop** | **Name of the crop** | **Name of the variety** | **Name of the hybrid** | **Number** | **Value (Rs.)** | **Number of farmers** | **No. of KVKs** |
| Ornamental plants |  |  |  |  |  |  | 01 |
| Fodder | Napier grass |  |  | 4000 | - | - |  |
| Seasonal Flowers  Seedlings | Calendula  Nastertium  Holyhock  Petunia  Dogflower  Ice plant  Sweet William  Sweet Allysum  Dimorphotheca  Conflower  Paper flower  Cineraria  Mari gold |  |  | 24500 | - | Distributed to Primary schools & BRCs & CDO office and other line deptt. |  |
| **Bael** |  | **Commercial** |  |  | **6000.00** | **Auction** |  |
| **Aonla** |  | **Commercial** |  |  | **25000.00** | **Auction** |  |
| **Total** |  |  |  | **28500** | **31000.00** |  |  |

**VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Samples | **No. of Samples** | **No. of Farmers** | **No. of Villages** | **Amount realized (Rs.)** | **No. of KVKs** |
| Soil & water |  |  |  |  |  |

VIII. SCIENTIFIC ADVISORY COMMITTEE

|  |  |
| --- | --- |
| **Name of KVK** | **Number of SACs conducted** |
| Badaun | 25.03.2019 |

**IX. NEWSLETTER/MAGAZINE**

|  |  |
| --- | --- |
| **Name of News letter/Magazine** | **No. of Copies printed for distribution** |
|  |  |
|  |  |

**X. PUBLICATIONS**

|  |  |
| --- | --- |
| **Category** | **Number** |
| Research Paper |  |
| Technical bulletins |  |
| Technical reports |  |
| Others (pl. specify) |  |

**XI. DETAILS ON RAIN WATER HARVESTING STRUCTURE AND MICRO-IRRIGATION SYSTEM**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activities conducted** | | | | |
| **No. of Training programmes** | **No. of Demonstration s** | **No. of plant materials produced** | **Visit by farmers**  **(No.)** | **Visit by officials**  **(No.)** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**XII. INTERVENTIONS ON DISASTER MANAGEMENT/UNSEASONAL RAINFALL/HAILSTORM/COLD WAVES ETC**

Introduction of alternate crops/varieties

|  |  |  |  |
| --- | --- | --- | --- |
| **Crops/cultivars** | **Area (ha)** | **Extent of damage** | **Recovery of damage through KVK initiatives if any** |
|  |  |  |  |
|  |  |  |  |
| Total |  |  |  |

Major area coverage under alternate crops/varieties

|  |  |  |
| --- | --- | --- |
| **Crops** | **Area (ha)** | **Number of beneficiaries** |
| Oilseeds |  |  |
| Pulses |  |  |
| Cereals |  |  |
| Vegetable crops |  |  |
| Tuber crops |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| **Total** |  |  |

Farmers-scientists interaction on livestock management

|  |  |  |
| --- | --- | --- |
| **Livestock components** | **Number of interactions** | **No.of participants** |
|  |  |  |
|  |  |  |
| **Total** |  |  |

Animal health camps organised

|  |  |  |
| --- | --- | --- |
| **Number of camps** | **No.of animals** | **No.of farmers** |
|  |  |  |
|  |  |  |
| **Total** |  |  |

Seed distribution in drought hit states

|  |  |  |  |
| --- | --- | --- | --- |
| **Crops** | **Quantity (qtl)** | **Coverage of area (ha)** | **Number of farmers** |
|  |  |  |  |
|  |  |  |  |
| **Total** |  |  |  |

Large scale adoption of resource conservation technologies

|  |  |  |
| --- | --- | --- |
| **Crops/cultivars and gist of resource conservation technologies introduced** | **Area (ha)** | **Number of farmers** |
|  |  |  |
|  |  |  |
| **Total** |  |  |

Awareness campaign

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Meetings** | | **Gosthies** | | **Field days** | | **Farmers fair** | | **Exhibition** | | **Film show** | |
|  | **No.** | **No.of farmers** | **No.** | **No.of farmers** | **No.** | **No.of farmers** | **No.** | **No.of farmers** | **No.** | **No.of farmers** | **No.** | **No.of farmers** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  |  |  |  |  |  |  |

**XIII. DETAILS ON HRD ACTIVITIES**

1. **HRD activities organized in identified areas for KVK staff by the Directorate of Extension**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of the SAU** | **Title of the training programmes** | No of programmes | No. of Participants | No. of KVKs involved |
| **S.V.P.U.A.&T** |  | 02 | 40 | 08 |
|  |  |  |  |  |
|  |  |  |  |  |
| **Total** |  |  |  |  |

1. **HRD activities organized in identified areas for KVK staff by Zonal Project Directorate**

|  |  |  |  |
| --- | --- | --- | --- |
| **Title of the training programmes** | No of programmes | No. of Participants | No. of KVKs involved |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| **Total** |  |  |  |

**XIV. CASE STUDIES (CASE STUDIES MAY BE GIVEN IN DETAIL AS PER THE FOLLOWING FORMAT)**

***Each Zone should propose a minimum of three case studies with good action photographs (with captions on the backside of the hard copy of the photos) on the following topics***

1. ***Effective popularization on a larger scale of any one FLD technology and its role in transformation of district agriculture with respect to that particular crop or enterprise***
2. ***Performance of the end results of any one technology assessed, its refinement if any and its impact in district agriculture with respect to that crop or enterprise***
3. ***Effect of production and supply of seeds and planting material / animal breed / or bio-product and its impact on district agriculture with respect to that crop/ enterprise/ bio-product***

***The general format for preparing the above case studies are furnished below***

**Name of the KVK**

# TITLE

# Introduction

**KVK intervention**

**Output**

**Outcome**

**Impact**

**XIV. AGRICULTURAL TECHNOLOGY INFORMATION CENTRE (2019)**

1. **Details on ATICs**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Name of the ATIC** | **Name of the Host Institute** | **Name of the ATIC Manager** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

1. **Details on Farmer’s visit** (Jan 2019 to Dec 2019)

|  |  |  |
| --- | --- | --- |
| **S. No** | **Purpose of visit** | **Number of farmer’s visited** |
| 01 | Technology Information |  |
| 02 | Technology Products |  |
| 03 | Others if any pl. specify |  |

1. **Facilities in the ATIC which are in operation**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Particulars** | **Availability (Please √ mark)** | **Number of ATICs** |
| 01 | Reception counter |  |  |
| 02 | Exhibition / technology museum |  |  |
| 03 | Touch screen Kiosk |  |  |
| 04 | Cafeteria |  |  |
| 05 | Sales counter |  |  |
| 06 | Farmer’s feedback register |  |  |
| 07 | Others if any (please specify) |  |  |

1. **Technology information provided**

**D.1. Details on technology information** (Jan 2019 to Dec 2019)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S. No** | **Information category** | **Number of ATICs** | **Total number of farmers benefitted** | **Category of information** | | | | | | |
|  |  |  |  | **Varieties / hybrids** | **Pest management** | **Disease management** | **Agro-techniques** | **Soil and water conservation** | **Post Harvest technology and Value addition** | **Animal Husbandry and fisheries** |
| 01 | Kisan Call Centre / other Phone calls from farmers |  |  |  |  |  |  |  |  |  |
| 02 | Video shows |  |  |  |  |  |  |  |  |  |
| 03 | Letters received |  |  |  |  |  |  |  |  |  |
| 04 | Letters replied |  |  |  |  |  |  |  |  |  |
| 05 | Training to farmers / technocrats / students |  |  |  |  |  |  |  |  |  |
| 06 | Others pl. specify |  |  |  |  |  |  |  |  |  |

**D.2 . Publications (Print & Electronic media)** (Jan 2019 to Dec 2019)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No** | **Particulars** | **Number sold** | **Revenue generated in Rs.** | **Number of farmers benefited** |
| 01 | Books |  |  |  |
| 02 | Technical bulletins |  |  |  |
| 03 | Technology Inventory |  |  |  |
| 04 | CDs |  |  |  |
| 05 | DVDs |  |  |  |
| 06 | Video films |  |  |  |
| 07 | Audio CDs |  |  |  |
| 08 | Others if any (please specify) |  |  |  |

1. **Technology Products provided** (Jan 2019 to Dec 2019)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No** | **Particulars** | **Quantity** | **Unit of quantity** | **Value in Rs.** | **Number of farmers benefited** |
| 01 | Seeds |  | Quintal |  |  |
| 02 | Planting materials |  | Numbers |  |  |
| 03 | Livestock |  | Numbers |  |  |
| 04 | Poultry birds |  | Numbers |  |  |
| 05 | Bio-products |  | Quintals |  |  |
| 06 | Others pl. specify |  |  |  |  |

**F. Technology services provided** (Jan 2019 to Dec 2019)

|  |  |  |
| --- | --- | --- |
| **S. No** | **Particulars** | **Number of farmers benefited** |
| 01 | Soil and water testing |  |
| 02 | Plant diagnostics |  |
| 03 | Details about the services to line Departments |  |
| 04 | Others if any (please specify) |  |

**XV. TECHNOLOGICAL BACKSTOPPING BY DIRECTORATES OF EXTENSION** (Jan 2019 to Dec 2019)

**States covered:**

**Number of Directorates of Extension:**

1. **Details on Directors of Extension**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S. No** | **Name of the SAU** | **Name of the Director of Extension** | **Number of KVKs for which technological backstopping is provided** | | | | | |
|  |  |  | **SAU/CAU** | **DU** | **ICAR** | **NGO** | **SDA** | **Others (pl. specify)** |
|  | **S.V.P.U.A&T., Meerut** | Dr. S.K. Sachan |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

1. **Workshops / meetings organized during Jan 2019 to Dec 2019**

|  |  |  |
| --- | --- | --- |
| **S. No.** | **Details of workshop/meeting conducted** | **No. of KVKs participated** |
|  |  |  |
|  |  |  |

1. **Visits made by DE / Officials in the Directorate to KVKs during Jan 2019 to Dec 2019**

|  |  |  |
| --- | --- | --- |
| **S. No.** | **Particulars** | **Number of visits** |
| 01 | SAC meetings | 01 |
| 02 | Field days |  |
| 03 | Workshops / seminars |  |
| 04 | Technology week |  |
| 05 | Training programmes |  |
| 06 | Others pl. specify |  |

**D. Overseeing of KVKs activities during Jan 2019 to Dec 2019**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No.** | **Particulars** | **Number of fields visited** | **Major observations / remarks** | **Major suggestions given** |
| 01 | On Farm Trials |  |  |  |
| 02 | Front Line Demonstration |  |  |  |
| 03 | Others pl. specify |  |  |  |

1. **Publication on Technology inventory during Jan 2019 to Dec 2019**

|  |  |  |
| --- | --- | --- |
| **S. No.** | **Particulars** | **Number** |
| 01 | Directorates published the technological inventory |  |
| 02 | Directorates constantly updating the technological inventory |  |

**F. Technological Products provided to KVKs during Jan 2019 to Dec 2019**

|  |  |  |
| --- | --- | --- |
| **S. No.** | **Major technologies provided** | **Number of KVKs** |
| 01 | Seeds |  |
| 02 | Planting materials |  |
| 03 | Bio-products |  |
| 04 | Livestock breed |  |
| 05 | Livestock products |  |
| 06 | Poultry breed |  |
| 07 | Poultry products |  |
| 08 | Others pl. specify |  |

**-------------XXXXXXX------------**