**PROFORMA FOR PREPARATION OF ANNUAL REPORT (April-2017-March-2018)**

# APR SUMMARY

(Note: While preparing summary, please don't add or delete any row or columns)

## 1. Training Programmes

| Clientele | No. of Courses | Male | Female | Total participants |
|---|---|---|---|---|
| Farmers & farm women | 86 | 1720 | - | 1720 |
| Rural youths | 06 | 59 | 01 | 60 |
| Extension functionaries | 23 | 230 | - | 230 |
| Sponsored Training | 02 | 100 | - | 100 |
| Vocational Training | 06 | 59 | 01 | 60 |
| **Total** | 123 | 2168 | 02 | 2170 |

## 2. Frontline demonstrations

| Enterprise | No. of Farmers | Area (ha) | Units/Animals |
|---|---|---|---|
| Oilseeds | 26 | 10.4 | - |
| Pulses | 100 | 40.0 | - |
| Cereals | 100 | 38.0 | - |
| Vegetables | 05 | 2.0 | - |
| Other crops | 10 | 4.0 | - |
| Hybrid crops | | | - |
| **Total** | 241 | 94.4 | - |
| Livestock & Fisheries | | | - |
| Other enterprises | | | - |
| **Total** | | | - |
| **Grand Total** | | | - |

## 3. Technology Assessment & Refinement

| Category | No. of Technology Assessed & Refined | No. of Trials | No. of Farmers |
|---|---|---|---|
| **Technology Assessed** | | | |
| Crops | 06 | 29 | 29 |
| Livestock | | | |
| Various enterprises | 02 | 07 | 07 |
| **Total** | 08 | 36 | 36 |
| **Technology Refined** | | | |
| Crops | | | |
| Livestock | | | |
| Various enterprises | | | |
| **Total** | | | |
| **Grand Total** | **08** | **36** | **36** |

## 4. Extension Programmes

| Category | No. of Programmes | Total Participants |
|---|---|---|
| Extension activities | 985 | 25335 |
| Other extension activities | 62 | - |
| **Total** | | |

## 5. Mobile Advisory Services

| Name of KVK | Message Type | Type of Messages | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Crop | Livestock | Weather | Mark e-ting | Aware-ness | Other enterprise | Total |
| Moradabad | Text only | | | | | | | |
| | Voice only | | | | | | | |
| | Voice & Text both | | | | | | | |
| | **Total Messages** | | | | | | | |
| | **Total farmers Benefitted** | | | | | | | |

## 6. Seed & Planting Material Production

| | Quintal/Number | Value Rs. |
|---|---|---|
| Seed (q) | 59.60 | 299145.00 |
| Planting material (No.) | 1100 | - |
| Bio-Products (kg) | 25 kg | - |
| Livestock Production (No.) | | |
| Fishery production (No.) | | |

## 7. Soil, water & plant Analysis

| Samples | No. of Beneficiaries | Value Rs. |
|---|---|---|
| Soil | 224 | 24200.00 |
| Water | | |
| Plant | | |
| **Total** | | **-** |

## 8. HRD and Publications

| Sr. No. | Category | Number |
|---|---|---|
| 1 | Workshops | 02 |
| 2 | Conferences | 01 |
| 3 | Meetings | |
| 4 | Trainings for KVK officials | 06 |
| 5 | Visits of KVK officials | 02 |
| 6 | Book published | |
| 7 | Training Manual | |
| 8 | Book chapters | |
| 9 | Research papers | 02 |
| 10 | Lead papers | |
| 11 | Seminar papers | |
| 12 | Extension folder | 07 |
| 13 | Proceedings | 01 |
| 14 | Award & recognition | |
| 15 | On going research projects | |

## 1. GENERAL INFORMATION ABOUT THE KVK

### 1.1. Name and address of KVK with phone, fax and e-mail

| Address | Telephone | | E mail |
|---|---|---|---|
| Krishi Vigyan Kendra | Office | FAX | |
| Rustam Nagar (Bilari) Moardabad (U.P.) - 202411 | - | - | moradabadkvk@gmail.com |

### 1.2 .Name and address of host organization with phone, fax and e-mail

| Address | Telephone | | E mail |
|---|---|---|---|
| | Office | FAX | |
| Director of Extension | 0121-2888511 | 0121-2888511 | |
| **S.V.P.U. Agri. & Tech., Meerut** (U.P.) - 250110 | | | |

### 1.3. Name of the Programme Coordinator with phone & mobile No

| Name | Telephone / Contact | | |
|---|---|---|---|
| | Residence | Mobile | Email |
| Dr. R.K.Singh | - | 9412809032 | moradabadkvk@gmail.com |

### 1.4. Year of sanction: 2004 (F.No.2-11/99-AE-11(PT) dated 13.12.2004

### 1.5. Staff Position (as on 30th March 2018)

| Sl. No. | Sanctioned post | Name of the incumbent | Designation | Discipline | Pay Scale (Rs.) | Present basic (Rs.) | Date of joining | Permanent /Temporary | Mobile No. | Age | Email id |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sr. Scientist & Head | Dr. R.K. Singh | Professor / Head. | Agricultural EXtension | 37400-67400 | 53420 + 9000 | 14-10-2010 | Permanent | 9412809032 | 53 | moradabadkvk@gmail.com |
| 2 | Subject Matter Specialist | Dr. P.L. Rawat | Assoc. Dir. | Horticulture | 37400-67400 | 43110+ 9000 | 25.01. 2010 | Permanent | 9411088138 | 61 | Plr2008 @gmail.com |
| 3 | Subject Matter Specialist | Dr. Hasan Tanveer | SMS/ Asst. Prof. | Plant Breeding | 15600-39100 | 21390 + 6000 | 23-06-2008 | Permanent | 9369156642 | 48 | htshahi @yahoo.com |
| 4 | Subject Matter Specialist | Dr. Arvind kumar | SMS/ Asst. Prof. | Plant Protection | 15600-39100 | 25850 + 7000 | 23-06-2008 | Permanent | 9412170753 | 48 | |
| 5 | Subject Matter Specialist | Dr. Mohan Singh | SMS/ Asst. Prof. | Soil Science | 15600-39100 | 25020 + 7000 | 25-06-2008 | Permanent | 9457802593 | 46 | drmsinghkvk@gmail.com |
| 6 | Subject Matter Specialist | Dr. A.K. Misra | SMS/ Asst. Prof. | Agronomy | 15600-39100 | 25020+ 7000 | 09-07-2008 | Permanent | 9368566251 | 49 | dr.misraak @rediffmail.com |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | Subject Matter Specialist | - | - | Home science | - | - | - | - | | | |
| 8 | Prog. Assistant | Sh. Ravinder Pal Singh | Prog. Assistant | Agri. Extension | 9300-34800 | 46200 | 26-12-2008 | Permanent | 9411220240 | 47 | rpskvkbsr@gmail.com |
| 9 | Prog. Assistant | Sri. Nagendra Pratap Singh | Computer Programmer/ Programme Assistant | PGDCA | 9300-34800 | 47600 | 01-09-2007 | Permanent | 9412060554 | 43 | nagendrapratap1973@gmail.com |
| 10 | Farm Manager | Dr. Hambir Singh | Farm Manager | Plant Breed | 9300-34800 | 47600 | 18-08-2007 | Permanent | 9759173168 | 49 | |
| 11 | Accountant / Superintendent | Sri. Sanjay Kumar Sharma | OS/ Accountant | Accounts | 9300-34800 | 62200 | 18-09-2000 | Permanent | 9412650468 | 45 | sksharmakvk@gmail.com |
| 12 | Stenographer/ computer operator | Sri. Ajay Tomar | Stenographer/ computer operator | | 5200-20200 | 35300 | 30-07-2007 | Permanent | 8171960800 | 34 | |
| 13 | Driver | Sh. Virendra Kumar Mishra | Driver | - | 5200-20200 | 31400 | 05.12.2003 | Permanent | 9984580773 | 44 | |
| 14 | Driver | | Vacant | Vacant | | | | | Vacant | | |
| 15 | Supporting staff | Sri. Ram Kishore | Vill. Attendant | - | 2550-3290 | 32300 | 09-01-1996 | Permanent | 9837137652 | 59 | |
| 16 | Supporting staff | Sri Sarvesh Kumar | Attendant | - | 2550-3290 | 24200 | 27-02-2008 | Permanent | 9760866548 | 34 | |

**1.6. Total land with KVK (in ha)** : 17.5 ha

| S. No. | Item | Area (ha) |
|---|---|---|
| 1 | Under Buildings, ,Road, Channels and boundary etc. | 3.0984 |
| 2. | Under Demonstration Units | 0.0016 |
| 3. | Under Crops | 13.0 |
| 4. | Orchard/Agro-forestry | 0.9 |
| 5. | Others (specify) | 0.5 |

## 1.7. Infrastructural Development:

### A) Buildings

| S. No. | Name of building | Source of funding | Stage | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Complete | | | Incomplete | | |
| | | | Completion Date | Plinth area (Sq.m) | Expenditure (Rs.) Lac | Starting date | Plinth area (Sq.m) | Status of construction |
| 1. | Administrative Building | ICAR | | 510 | | | | Completed |
| 2. | Farmers Hostel | ICAR | | 300 | | | | -do- |
| 3. | Staff Quarters (6) | ICAR | | 431 | | | | -do- |
| 4. | Demonstration Units (2) | ICAR | | 160 | | | | -do- |
| 5 | Fencing | ICAR | | 2000 R/M | | | | -do- |
| 6 | Rain Water harvesting system | - | - | - | | | | - |
| 7 | Threshing floor | ICAR | | 300 | | | | -do- |
| 8 | Farm godown | ICAR | | 60 | | | | -do- |
| 9 | Irrigation Channel | ICAR | | 1000 M | | | | -do- |

### B) Vehicles

| Type of vehicle | Year of purchase | Cost (Rs.) Lac | Total kms. Run | Present status |
|---|---|---|---|---|
| Tractor | 2005 | 3.45 | | Good condition |
| Bolero Jeep | 2007 | 4.59 | | Good condition |
| Motor cycle | 2008 | 0.52 | | Good condition |

**C) Equipments & AV aids**

| Name of the equipment | Year of purchase | Cost (Rs.) | Present status |
|---|---|---|---|
| L.C.D. Projector | 2007 | 57000.00 | Good condition |
| U.P.S. | 2007 | TRF from H.Q. | Good condition |
| Solar (Lalten) | 2007 | 4040.00 | Good condition |
| Electric Padestral Fan | 2005 | 2410.00 | Good condition |
| Padestral Fan | 2005 | 1725.00 | Good condition |
| 11 cultivator | 2005 | 12265.00 | Good condition |
| 14 Tawa Harrow | 2005 | 24540.00 | Good condition |
| Leveller | 2005 | 6870.00 | Good condition |
| Nepsake Spray (Plastic) | 2005 | 1428.00 | Good condition |
| Foot Sprayer | 2005 | 1362.00 | Good condition |
| Disk Bund Farmer | 2006 | 8250.00 | Good condition |
| Seed Drill | 2006 | 23415.00 | Good condition |
| Hand Rotary Fan | 2006 | 1161.00 | Good condition |
| Trailer for Tractor | 2006 | 64524.00 | Good condition |
| Hand Vinoi Fan | 2006 | 1450.00 | Good condition |
| S.D. Memory cord of LCD with Recorder | 2007 | 4000.00 | Good condition |
| Solar domestic ligh (Model IV) | 2008 | 25775 | Good condition |

**1.8. A). Details SAC meeting* conducted in the year**

**वैज्ञानिक सलाहकार समिति द्वारा दिये गये सुझावों का विवरण –**

| Sl.No. | Date | Name and Designation of participants | Silent Recommendations | Action taken |
|---|---|---|---|---|
| 1 | 20 December 2017 | डा0 अतर सिंह प्रधान वैज्ञानिक अटारी – कानपुर | 1. कृषि विज्ञान केन्द्र के प्रक्षेत्र के आधार पर बीज उत्पादन का लक्ष्य निर्धारित किया जाये। | डा0 हम्वीर सिंह (प्रक्षेत्र प्रबन्धक) |
| | | | 2. खरपतवार नियंत्रण पर प्रथम पंक्ति प्रदर्शन के साथ –साथ प्रशिक्षण भी दिया जाये। | डा0 ए0के0 मिश्र, वि0व0वि0 / सहा0प्रा0 (सस्य विज्ञान) |
| | | | 3. हाइड्रोजैल के प्रयोग पर प्रदर्शन आयोजित किये जाये । | डा0 ए0के0 मिश्र, वि0व0वि0 / सहा0प्रा0 (सस्य विज्ञान) |
| | | | 4. पादप प्रजनन की OFT में $T_1$ व $T_2$ स्पष्ट रूप से लिखी जाये। | डा0 हसन तनवीर वि0व0वि0 / सहा0प्रा0 (पादप प्रजनन) |
| | | | 5. जनपद की प्रमुख फसलों के बीज उत्पादन पर फसल की प्रत्येक अवस्था पर प्रशिक्षण दिया जायें । | डा0 हसन तनवीर वि0व0वि0 / सहा0प्रा0 (पादप प्रजनन) |

| | | | | |
|---|---|---|---|---|
| | | **डा0 एस0के0 सचान निदेशक प्रसार** | 1. सभी विषयों पर प्रदर्शन लगाने से पूर्व मृदा परीक्षण कराया जायें । | समस्त वैज्ञानिक |
| | | | 2. केन्द्र पर स्थापित एटिक में धान व गेहूँ के उन्नत प्रजातियों के लाइव स्पेसीमेन गमलों में लगाये जायें । | डा0 हसन तनवीर वि0व0वि0 / सहा0प्रा0 (पादप प्रजनन) |
| | | | 3. कृषि तकनीकी के विभिन्न चार्ट, पोस्टर कृषकों की जानकारी हेतु केन्द्र पर लगाये जाये । | समस्त वैज्ञानिक |
| | | **डा0 योगेश प्रसाद प्राध्यपक (उद्यान विज्ञान)** | 1. फलदार वाली फसलों पर प्रशिक्षण दिया जायें। | डा0 पी0एल0 रावत वि0व0वि0 / सहनिदेशक (उद्यान विज्ञान) |
| | | | 2. नाडेप / वर्मी कम्पोस्ट व मधुमक्खी पालन यूनिट की स्थापना केन्द्र पर की जायें । | डा0 अरविन्द कुमार वि0व0वि0 / सहा0प्रा0 (पादप सुरक्षा) एवं डा0 मोहन सिंह वि0व0वि0 / सहा0प्रा0 (मृदा विज्ञान) |
| | | **जिला कृषि अधिकारी, मुरादाबाद** | 1. सभी वैज्ञानिक अपने विषय से सम्बन्धित कृषि विज्ञान केन्द्र पर क्रापकैफेटेरिया लगाये तथा उसके आय –व्यय का लेखा जोखा रखें। | समस्त वैज्ञानिक |

## 2.0 DETAILS OF DISTRICT (2017-18)

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

| S.N. | Farming system/enterprise |
|---|---|
| 1. | **Major crops –** Paddy, Wheat, Mustard, Sugarcane, Mentha, Lentil, Potato. |
| 2. | **Crop rotation–** Rice-Sugarcane, Rice- Wheat, Urd-Mustard-Mentha, Jowar-Mustard-Mentha |
| 3. | Agriculture + Hort. + Livestock |
| 4. | Agri. + Livestock |
| 5. | Landless + Livestock |

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

| S. No. | AES | Characteristics of A.E.S. | Major commodities | Farming system | Block |
|---|---|---|---|---|---|
| 1 | I- Central western plain zone of the district | -Loam and clay loam with high fertility<br>- medium rainfall | Rice, wheat, mentha, sugarcane, chilli, cauliflower, cabbage, mango, guava, buffalo, cows | Paddy, wheat, sugarcane+ Poplar+ A.H. (Cow, buffalo) | Thakurdwara, Dilari, Moradabad, Bhagatpur tanda and Chhajlait |
| 2 | II. Central western Plain zone/ Central east southern region of the district | -Sandy loam to loam soil of medium fertility<br>- medium rainfall | Rice, wheat, mentha, sugarcane, mustard as well as vegetables (pea, cucumber, chilli, tomato, potato) and mango fruit, buffalo, cows | Paddy, wheat, potato, sugarcane, mentha, mustard based systems + horticulture + A.H. | Billari |
| 3 | III Central western plain zone Central region of the district | -Sandy loam to loam and clay soil of medium fertility<br>- medium rainfall | Rice, wheat, mentha, sugarcane, potato, guava, mango, poplar etc. | Paddy, wheat, sugarcane, mentha based systems poplar + A.H.+ Hort. | Munda pandey, Kundarki and Asmoli |

### 2.3 Soil type/S

| S.No. | Soil type | Area (ha) |
|---|---|---|
| 1 | Clay loam | 81930 |
| 2 | Sandy soil | 25537 |
| 3 | Sandy loam | 84518 |
| 4 | Loam | 126433 |
| | **Total** | 317919 |

**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 | 1,21959 | 37252 | 30.54 |
| 2. | Lentil | 621 | 560 | 9.02 |
| 3. | Mustard /Toria | 2256 | 2772 | 13.0 |
| 4. | Paddy (Rice) | 94947 | 22652 | 23.86 |
| 5. | Bajra | 31231 | 38.3 | 12.27 |
| 6. | Urd | 3867 | 3046 | 14.73 |
| 7. | Sugarcane | 46496 | 2951380 | 634.76 |
| **B** | **VEGETABLES** | | | |
| 1. | Potato | 1071 | 24036 | 230.03 |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |

**2.5 Weather data (rainfall in mm.) Dist. Moradabad**

| S. No. | Month | 2017-18 |
|---|---|---|
| 1 | Jan | 3.13 |
| 2 | Feb | 3.01 |
| 3 | March | 2.51 |
| 4 | April | 0.00 |
| 5 | May | 0.00 |
| 6 | June | 53.70 |
| 7 | July | 218.20 |
| 8 | Aug | 142.39 |
| 9 | Sept. | 172.85 |
| 10 | Oct. | 0.00 |
| 11 | Nov. | 0.00 |
| 12 | Dec. | 0.00 |
| | Total rainfall | 595.97 |
| | Avg. rainfall | 49.66 |

## 2.6 Production and productivity of livestock, Poultry, Fisheries etc. in the district

| Category | Population | Production | Productivity |
|---|---|---|---|
| **Cattle** | | | |
| *Crossbred* | **11824** | **Data not available** | **Data not available** |
| *Indigenous* | **58421** | | |
| **Buffalo** | **240704** | | |
| **Sheep** | | | |
| Crossbred | **220** | | |
| *Indigenous* | **40082** | | |
| **Goats** | **208768** | | |
| **Pigs** | **11195** | | |
| *Crossbred* | **3165** | | |
| *Indigenous* | **27159** | | |
| **Rabbits** | **-** | | |
| **Poultry** | **116205** | | |
| Hens | - | | |
| *Desi* | **-** | | |
| *Improved* | **-** | | |
| Ducks | **-** | | |
| Turkey and others | **-** | | |
| Fish | **172** | **3019** | **78.07** |

## 2.7 Details of operation area/villages (2017-18)

| S. No. | Taluk/Village | Name of block | Major crops & enterprises | Major problem identified | Identified thrust area |
|---|---|---|---|---|---|
| 1 | Fattepur<br>Natha | Bilari | Paddy, Wheat, Sugarcane<br>Mentha, Mustard, Poplar,<br>Dairy | Low Productivity of paddy, wheat, mustard, urd etc.<br><br>The main reason of low yield is due to lack of high yielding varieties, imbalance use of fertilizer & less awareness of insect and disease control timely. | Diversification in agriculture<br>Lack of high yielding varieties.<br><br>Less availability of plant protection measures. |
| 2 | Bhurmaresi | Bilari | Paddy, Wheat, Sugarcane<br>Mentha, Mustard, Poplar,<br>Dairy | Low Productivity of paddy, wheat, mustard, urd etc.<br><br>The main reason of low yield is due to lack of high yielding varieties, imbalance use of fertilizer & less awareness of insect and disease control timely.<br>Low yield of paddy, wheat, mentha & mustard | Diversification in agriculture<br>Lack of high yielding varieties.<br><br>Less availability of plant protection measures.<br><br>Heavy infestation of weeds. |
| 3 | Khanpur | Bilari | Paddy, Wheat, Sugarcane<br>Mentha, Mustard, Dairy,<br>Chilli, bottle guard,<br>colocacia | Poor milk production and infertility in animals.<br>Lack of knowledge of quality planting material and | Diversification in Agriculture.<br><br>Use of improved variety and IPM, ICM. |

| | | | | | |
|---|---|---|---|---|---|
| | | | | production technology in horticultural crops.<br>Low yield of paddy, wheat, mentha & mustard | Heavy infestation of weeds. |
| 4 | Ram Nagar Gangpur | Bilari | Paddy, Wheat, Sugarcane Mentha, Mustard, Poplar, Dairy | Use of local varieties of different crops by the farmers.<br>Pest problems<br>Low yield of paddy, wheat, mentha & mustard | Diversification in Agriculture.<br>Use of improved variety and IPM, ICM.<br>Heavy infestation of weeds. |
| 5 | Sihari Ladda | Bilari | Paddy, Wheat, Sugarcane Mentha, Mustard, Dairy, Poplar,Chilli, Onion, Gartic, Cucurbits. | Lack of knowledge of improved varietied of different crops.<br>- Pest problems<br>- Lack of knowledge of inter cropping<br>- Crop management & nutrient management.<br>- Disease & insect control of cereals and vegerable crops.<br>- Poor milk production and infertility in animals | - Diversification in agriculture.<br>- Use of improved varieties.<br>- Inter cropping technique.<br>- Crop management.<br>- Weed control<br>- Unawareness of diseases and insect control. |

## 2.8 Priority thrust areas

| S.N. | Crop/ Enterprise | Thrust area |
|---|---|---|
| 1. | Rice/Wheat | Integrated plant nutrient management in rice -wheat cropping. |
| 2. | Rice/Wheat | Integrated weed management in rice -wheat cropping |
| 3. | Pulses | Enhancing the area under Kharif & Rabi pulses |
| 4. | Oil seeds | Enhancing the area under Kharif & Rabi oil seeds. |
| 5. | Cereals/Pulses/ Oil seeds | IPM in crops |
| 6. | Cereals/Pulses/ Oil seeds | Promotion of new released varieties. |
| 7. | Seed production | Promotion of seed production in different crops. |
| 8. | Mango | Rejuvenation of old mango orchards |
| 9. | Guava | Management of Guava orchards. |
| 10 | Vegetables | Promotion of organic farming in vegetables. |
| 11 | Floriculture | Promotion of income generating crops. |
| 12 | Bee-keeping | Popularization of Bee-keeping |
| 13 | Vermi compost | Popularization of Vermi composting |

**2.9 Intervention/ Programmes for the doubling the farmers income – during 2017-18** **Demonstrations**

**Assesment of suitable combination of inter crop with spring S.cane (S.cane + Urd)**

| **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(Zaid) | | | | | | | |
| Sole crop (S.cane) | 753 | - | | 115950/- | 1,28937.0 | 1:2.11 | |

**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(Zaid) | | | | | | | |
| (S.cane + Urd) | 796.50 | 8.75 | 134.62 | 1,27450/- | 1,73163.00 | 1:2.38 | Inter crop with S.cane is more profitable as compare to sole crop. |
| | | | | | | | |

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

**Sale rate – S.cane @ 325/- q Urd @ 5000/- q**

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

Note- Same format may be used for OFT.

## 3.0 TECHNICAL ACHIEVEMENTS

### 3.A. Details of targeted mandatory activities by KVK during 2017-18

| OFT (Technology assessment & refinement) | | | | FLD (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 |
| 06 | 08 | 26 | 36 | 67.2 | 44.0 | 191 | 115 |

| CFLD (Oilseeds,Pulses,) | | | |
|---|---|---|---|
| 3 | | | |
| Area in ha. | | Number of Farmers | |
| Targets | Achievement | Targets | Achievement |
| 40.0 | 50.4 | 100 | 126 |

| | Training (including sponsored, vocational trainings) | | | | Extension Activities | | | |
|---|---|---|---|---|---|---|---|---|
| | 4 | | | | 5 | | | |
| | Number of Courses | | Number of Participants | | Number of activities | | Number of participants | |
| Clientele | T | A | T | A | T | A | T | A |
| Farmers | 78 | 86 | 1560 | 1720 | 1463 | 1047 | 20000 | 25335 |
| Rural youth | 08 | 06 | 80 | 60 | | | | |
| Ext. Functionaries | 18 | 23 | 180 | 230 | | | | |
| Sponsered traing | - | 02 | | 100 | | | | |

| Seed Production (Qtl.) | | | Planting material (Nos.) | | |
|---|---|---|---|---|---|
| 6 | | | 7 | | |
| Target | Achievement | Distributed to no. of farmers | Target | Achievement | Distributed to no. of farmers |
| 200 | 480.60 | Supply to NSC, Meerut | 20000 | 1100 | - |

# I.A TECHNOLOGY ASSESSMENT

## A. Summary of technologies assessed under various crops by KVKs

| Thematic areas | Crop | Name of the technology assessed | No. of trials | No. of Farmers |
|---|---|---|---|---|
| Integrated Nutrient Management | Wheat<br><br>Paddy | Exaluation of Phosphorus & MOP fertilizer on soil test basis.<br>To test the different dose of fertilizers against soil test basis. | 01<br><br>01 | 05<br><br>05 |
| Varietal Evaluation | Wheat | Evaluation of higher yielding varities of wheat under late sown condition. | 01 | 04 |
| Integrated Pest Management | Paddy | Management of Stem borer in paddy | 01 | 05 |
| | S.cane | Control of early shoot borer in s.cane | 01 | 04 |
| Integrated Crop Management | Sugarcane with intercrope | Assisment of suitable combination of intercrop with spring sugarcane | 01 | 03 |
| Integrated Disease Management | Wheat | Management of yellow rust in wheat | 01 | 05 |
| | | | | |
| Small Scale Income Generation Enterprises | | | | |
| | | | | |
| Weed Management | Paddy | Weed management in paddy | 01 | 05 |
| | | | | |
| Resource Conservation Technology | | | | |
| | | | | |
| Farm Machineries | | | | |
| | | | | |
| Integrated Farming System | | | | |
| | | | | |
| Seed / Plant production | | | | |
| | | | | |
| Post Harvest Technology / Value addition | | | | |
| | | | | |
| Drudgery Reduction | | | | |
| | | | | |
| Storage Technique | | | | |
| | | | | |
| Others (Pl. specify) | | | | |
| | | | | |
| **Total** | | | **08** | **36** |

## B. 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 | | | | |
| Evaluation of Breeds | | | | |
| Feed and Fodder management | | | | |
| Nutrition Management | | | | |
| Production and Management | | | | |
| Others (Pl. specify) | | | | |
| **Total** | | | | |

## C. Summary of technologies assessed under various enterprises by KVKs

| Thematic areas | Enterprise | Name of the technology assessed | No. of trials | No. of farmers |
|---|---|---|---|---|
| | | | | |
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**Note:** Suppose **IPM in paddy** is the technology assessed by 50 KVKs in the Zone with 5 trials by each KVK, then IPM in paddy needs to be considered as a single technology, with 50*5 = 250 trials and No. of KVKs will be 50. In addition, please note that even if IPM in paddy is done with various combinations of Technology Options (treatments), it may be considered as a single technology only.

# I.B. TECHNOLOGY REFINEMENT

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

| Thematic areas | Crop | Name of the technology refined | No. of trials | No. of farmers |
|---|---|---|---|---|
| Integrated Nutrient Management | | | | |
| | | | | |
| Varietal Evaluation | | | | |
| | | | | |
| Integrated Pest Management | | | | |
| | | | | |
| Integrated Crop Management | | | | |
| | | | | |
| Integrated Disease Management | | | | |
| | | | | |
| Small Scale Income Generation Enterprises | | | | |
| | | | | |
| Weed Management | | | | |
| | | | | |
| Resource Conservation Technology | | | | |
| | | | | |
| Farm Machineries | | | | |
| | | | | |
| Integrated Farming System | | | | |
| | | | | |
| Seed / Plant production | | | | |
| | | | | |
| Value addition | | | | |
| | | | | |
| Drudgery Reduction | | | | |
| | | | | |
| Storage Technique | | | | |
| | | | | |
| Others (Pl. specify) | | | | |
| | | | | |
| **Total** | | | | |

**B. Summary of technologies refined under various livestock by KVKs**

| Thematic areas | Name of the livestock enterprise | Name of the technology refined | No. of trials | No. of farmers |
|---|---|---|---|---|
| Disease Management | | | | |
| Evaluation of Breeds | | | | |
| Feed and Fodder management | | | | |
| Nutrition Management | | | | |
| Production and Management | | | | |
| Others (Pl. specify) | | | | |
| **Total** | | | | |

**C. Summary of technologies refined under various enterprises by KVKs**

| Thematic areas | Enterprise | Name of the technology assessed | No. of trials | No. of farmers |
|---|---|---|---|---|
| | | | | |
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**Note:** Suppose **IPM in paddy** is the technology refined by 50 KVKs in the Zone with 5 trials by each KVK, then IPM in paddy needs to be considered as a single technology, with 50*5 = 250 trials and No. of KVKs will be 50. In addition, please note that even if IPM in paddy is done with various combinations of Technology Options (treatments), it may be considered as a single technology only.

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

## OFT -1

### *INTEGRATED CROP MANAGEMENT IN SUGARCANE*
### *(Zaid 2017)*

***Problem definition*** Low yield of sugarcane sole crop as compare to intercrop.

**Technology assessed or refined** Assesment of suitable combination of inter crop with spring sugarcane.

**No. of Farmers** 03

KVK Moradabad has been conducted on-farm trials on suitable inter crop(Sugarcane, S.cane + Urd) combination with autumn s.cane.

Generally farmers are take a sole crop of s.cane, resulting low income of sole crop as compaired to inertcrop. The problem assessed on the basis of suitable & profitable combination selected.

**Table : Performance of sugarcane (*CO - 0238*) in relation to integrated crop management**

| Technology Option | No.of trials | Yield of intercrop (q/ha.) | Cane yield (q/ha.) | Yield of Intercrop + Cane (q/ha.) | Yield increase (%) |
|---|---|---|---|---|---|
| Farmers practices (Single crop) | 3 | - | 753.50 | 753.50 | - |
| S.cane + Urd | | 8.75 | 796.50 | 805.25 | 5.47% |

| Gross return (Rs./ha.) | | | Net Return (Rs./ha) | | | B:C Ratio |
|---|---|---|---|---|---|---|
| S.cane | Intercrop | Cane + intercrop | S.cane | Intercrop | S.cane + intercrop | |
| 244887 | - | 244887.0 | 128937 | - | 128937 | 2.11 |
| 258863 | 43750 | 302613 | 142913 | 32250 | 1731630 | 2.38 |

**Final recommendation** The result indicated that intercropping of urd is sowing in two row spacing of S.cane gave, higher net return Rs. 1.73 lac/ha. in intercrop (S.cane + urd) over to control(Sole crop), 1.28 lakh/ha. with B:C ratio 1:2.38, & 1:2.11, respectively.

**Farmers reaction** Farmers have positive response about urd intercropping with spring sugarcane is more profitable as compare to S.cane alone.
Farmers are covinced to minimum weed infestation in S.cane + urd as compare to S.cane alone.

| | |
|---|---|
| **Date of sowing/planting harvesting** | S.cane Planting – 02-05 March 2017.<br>Harvesting Ist week of Jan.2018<br>Urd – Sowing – 12-15 March, 2017<br>Harvesting – 10-15 June.2017 |

## OFT -2

## *INTEGRATED CROP MANAGEMENT IN SUGARCANE*

## *(Zaid - 2018)*

***Problem definition*** Low yield of sugarcane sole crop as compare to intercrop.

**Technology assessed or refined** Assesment of suitable combination of inter crop with Spring sugarcane.

**No. of Farmers** 03

KVK Moradabad has been conducted on-farm trials on suitable inter crop(Sugarcane, S.cane + Urdbean) combination with Spring s.cane.

Generally farmers are take a sole crop s.cane, resulting low income of sole crop as compaire to inertcrop. The problem assessed on the basis of suitable & profitable combination selected.

**Table : Performance of sugarcane(*CO - 0238*) in relation to integrated crop management**

| Technology Option | No.of trials | Yield of intercrop (q/ha.) | Cane yield (q/ha.) | Yield of Intercrop + Cane (q/ha.) | Yield increase (%) |
|---|---|---|---|---|---|
| Farmers practices (Sole crop) | 3 | Result | awaited | | |
| S.cane + Urdbean | | | | | |

**Date of sowing/planting harvesting** 02-03 March 2018 S.Cane & 10-12 March, 2018 (Urd) .

## OFT -3

# *WEED MANAGEMENT*
# *(Kharif 2017)*

***Problem definition*** Low yield of paddy due to heavy weed infestation.

**Technology assessed or refined** Weed management in paddy.

**No. of Farmers** 05

KVK, Moradabad conducted on-farm trials on the basis of farmers problem in paddy crop, the low yield of paddy due to heavy weed infestation.

**Table : Effect of Chlorimuron + Metsulfuron 20 WP for weed control in paddy crop.**

| Technology Option | No.of trials | Yield (q/ha.) | Increase in yield (%) | Net Return (Rs./ha) | B:C Ratio |
|---|---|---|---|---|---|
| $T_1$ – Farmers practice (Pratilachlore )50 EC . @ 1.25 lit/ha. | 05 | 57.65 | | 39946.00 | 1.80 |
| $T_2$ – Chlorimuron + Metsulfuron 20 WP @ 20 gm/ha.. | | 69.50 | 17.05 | 58223.00 | 2.17 |

***Recommendation***

- The result indicated that spraying of weedicide Chlorimuron + Metsulfuron 20 WP is more effective as compare to pretilacholre .
- The grain yield was increased 17.05% & net return Rs 58223/ha over to farmers practice.

**Farmers reactions –**

- Farmers had given positive response about new weedicide. –
- Chlorimuron + Metsulfuron 20 WP is more effective & economic as compare to pretilacholre.
- The grain yield was increased up to 19.0% due to timely weed management.

**Date of transplanting & harvesting** 03-05 July. 2017 & 29-31 Oct. 2017

## OFT - 4

# *INTEGRATED NUTRIENT MANAGEMENT*
# *(Kharif 2017)*

***Problem definition*** Low yield of paddy due to imbalance use of fertilizers.

**Technology assessed or refined** To test the different dose of fertilizers against soil test basis.

**No. of Farmers** 05

KVK, Moradabad conducted on-farm trials on different doses of fertilizers on the basis of soil test in paddy.

**Table : Performance of paddy.**

| Technology Option | No.of trials | Yield (q/ha.) | Increase in yield (%) | Net Return (Rs./ha) | B:C Ratio |
|---|---|---|---|---|---|
| $T_1$ – Farmers practice<br>120:40:0:0 N:P:K & Zn Kg/ha.<br>(PB - 1509) | 05 | 42.85 | - | 68130 | 2.18 |
| $T_2$ – Soil test bases 158:60:52:25 N:P:K & Zn Kg/ha. | | 48.81 | 13.90 | 79443 | 2.38 |

***Recommendation*** The data showed in table that $T_2$ (Use of fertilizer on ***soil test basis)*** in paddy crop. $T_2$ is found best for proper nutrient. This treatment is able to increase the crop production as compared to $T_1$.

**Farmers reactions** Application of fertilizers on the basis of soil testing increase the yield in paddy crop.

**Date of Sowing & harvesting** 13-18 July. 2017 and 25-28 Oct. 2017

## OFT - 5

### *INTEGRATED NUTRIENT MANAGEMENT*
### *(Rabi 2017-18)*

***Problem definition*** Assesment of suitable dose of fertilizer in wheat crop.

**Technology assessed or refined** Evaluation of Phosphorus & MOP fertilizer on soil test basis.

**No. of Farmers** 05

KVK, Moradabad conducted on-farm trials on high yielding varieties of wheat under late sown condition. on soil test bases.

**Table : Performance of wheat.**

| Technology Option | No.of trials | Yield (q/ha.) | Increase in yield (%) | Net Return (Rs./ha) | B:C Ratio |
|---|---|---|---|---|---|
| $T_1$ – Farmers practice<br>120:60:25:0 N:P:K & Zn Kg/ha.<br>(HD - 2967) | 05 | | | | |
| $T_2$ – 167:75:45:25. N:P:K & Zn Kg/ha | | 48.6 | 20% | 50101 | 2.46 |

***Recommendation*** The data given in table shows that $T_2$ (Use of Phosphorus & MOP 167:75:45:25. N:P:K & Zn Kg/ha***.)*** in wheat crop. $T_2$ is found best for proper nutrient. This treatment is able to increase the crop production in comparision to $T_1$.

**Farmers reactions** Application of Phosphorus & MOP 167:75:45:25. N:P:K & Zn Kg/ha***.*** is very effective to enhencing in wheat yield.

**Date of Sowing & harvesting** 06-08 Dec. 2017 and 15-18 April. 2018

Salling Price – 1735 Rs./q

## OFT - 6

### *PEST AND DISEASE MANAGEMENT*
### *(Kharif – 2017)*

***Problem definition*** Low yield of paddy due to infestation of ***Stem borer***.

**Technology assessed or refined** To test the efficacy of different insecticides against stemborer in paddy crop.

**No. of Farmers** 05

KVK Moradabad conducted on-farm trial to Control of Stem borer in paddy by the use of Chlorantraniliprole 0.4G @ 10Kg/ha. gave 11.72 % higher yield over farmers practice (Carbofuran 3 CG @ 20 Kg/ha.). The insect infestation showed 1.75 times more in farmers practice as compared to Chlorantraniliprole 0.4G treated plots.

**Table: Effect of Chlorantraniliprole 0.4G in control of Stem borer in paddy**

| Technology Option | No.of trials | Incidence of Stem borer (%) | Yield (q/ha) | % Increase in yield over farmer's practice |
|---|---|---|---|---|
| $T_1$ - Use of ***Carbofuran*** 3CG @ 20 Kg/ha. (Farmers practice) | 05 | 8% | 40.50 | - |
| $T_2$ - Use of ***Chlorantraniliprole 0.4G*** @ 10Kg/ha. in soil | | 6% | 45.25 | 11.72 |

***Recommendation*** The data showed in table shows that $T_2$ (***Chlorantraniliprole 0.4G*** @ **10Kg/ha.) used** in the soil in presence of approximate 3 inches of standing water after 30-35 days of transplanting, gave maxi. yield 45.25q./ha. This treatment was more effective to minimize and control the stem borer as compared to $T_1$ (***Carbofuran*** 3CG).

**Farmers reactions** Application of ***Chlorantraniliprole 0.4G @ 10Kg/ha.*** is highly effective to control stem borer.

**Date of transplanting & harvesting** 07-11 July 2017 & 20-22 Oct. 2017

## OFT - 7

***PEST AND DISEASE MANAGEMENT***
***(Rabi – 2017-18)***

***Problem definition*** Low yield of wheat due to incidence of ***Yellow rust***.

**Technology assessed or refined** To test the efficacy of fungicide against yellow rust in wheat crop..

**No. of Farmers** 05

KVK Moradabad conducted on-farm trial to Control of yellow rust disease in wheat by the use of Propiconazole 25 EC @ 500ml/ha. (Two spray) gave 10.90% higher yield over farmers practice (No use of chemical.). The disease infestation showed 1.80 times more in farmers practice in comparision to Propiconazole 25 EC treated plots, respectively.

**Table: Effect of Propiconazole 25 EC in control of yellow rust in wheat**

| Technology Option | No.of trials | Incidence of disease yellow rust (%) | Yield (q/ha) | % Increase in yield over farmer's practice |
|---|---|---|---|---|
| $T_1$ – No use of chemicals (Farmers practice) | 05 | 11.75% | 41.25 | - |
| $T_2$ - Use of Propiconazole 25 EC @ 500ml/ha (Two spray) | | 6.5% | 45.75 | 10.90 |

***Recommendation*** The data given in table shows that in treatment $T_2$ (Use of ***Propiconazole*** 25 EC @ 500ml/ha (Two spray). Ist spray in first week of Feb and II after 10-15 days of Ist spray gave maxi. yield 45.75 q/hac. This treatment is able to control and minimize the incidence of yellow rust disease in wheat in comparision to other ( $T_1$).

**Farmers reactions** The application of ***Propiconazole*** 25 EC @ 500ml/ha (Two spray) is very effective to control yellow rust in wheat.

**Date of transplanting & harvesting** 27 Nov.-01 Dec 2017 and 12-14 April, 2018.

## OFT - 8

***PEST AND DISEASE MANAGEMENT***
***(Zaid - 2018)***

***Problem definition*** Low yield of sugar cane due o infestation of early shoot borer.

**Technology assessed or refined** To test the efficacy of insecticide against early shoot borer in sugar cane.

**No. of Farmers** 04

KVK Moradabad conducted on-farm trial to Control of early shoot borer in sugar cane.

**Table: Effect of chlorantraniliprole 18.5 SC in control of early shoot borer in sugar cane.**

| Technology Option | No.of trials | Infestation of early shoot borer (%) | Yield (q/ha) | % Increase in yield over farmer's practice |
|---|---|---|---|---|
| $T_1$ – use of chloropyriphos 20 EC @ 3.0 lit/ha. (farmers practice) | 04 | Result | awatied | |
| $T_2$ - Use of chlorantraniliprole 18.5 SC @ 375 ml/ha. | | | | |

***Recommendation***

**Farmers reactions**

**Date of transplanting & harvesting** 28 Feb. – 04 March 2018

## OFT - 9

# *VARIETAL EVALUATION*
# *(Rabi 2017-18)*

***Problem definition*** Low yield under late sown condition and use of old variety.

**Technology assessed or refined** Evaluation of higher yielding varieties of wheat under late sown condition.

**No. of Farmers** 04

KVK, Moradabad conducted on-farm trials on high yielding varieties of wheat under late sown condition.

**Table : Performance of Wheat.**

| Technology Option | No.of trials | Yield (q/ha.) | Increase in yield (%) | Net Return (Rs./ha) | B:C Ratio |
|---|---|---|---|---|---|
| $T_1$ – Farmers practice<br>PBW - 373 | 04 | 35.7 | - | 26285 | 1.87 |
| $T_2$ – HD - 3059 | | 41.3 | 15.69 | 33860 | 2.07 |
| $T_3$ – DBW - 90 | | 42.5 | 19.05 | 35762 | 2.13 |

***Recommendation*** The data showed in table that $T_3$ (***DBW - 90)*** is more suitable in relation to yield as compared to $T_1$ & $T_2$ . KVK recommend to the farmers of Moradabad area to use DBW – 90 for late sown condition.

**Farmers reactions** Use of DBW – 90 variety is good for late sown condition.

**Date of Sowing & harvesting** 03-06 Dec., 2017 and 14-15 April, 2018

# Front Line Demonstration on other than oil seeds & pulses

## A. Follow-up results of FLDs implemented during previous years

**List of technologies demonstrated during previous year and popularized during 2017-18 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. |
| 1 | Paddy | Weed management | Weed control through Bispyribac sodium 10 EC @ 200 ml/ha | Through training prog., Gosthi , Field day, Electronic & Print media, Kisan Mela | 50 | 600 | 400 |
| 2 | Paddy | IDM | Control of blast disease through Hexaconazole 4% + Zineb 68% @ 1Kg/ha. (Two spray) | Through training prog., Gosthi , Field day, Electronic & Print media, Kisan Mela | 30 | 550 | 250 |
| 3 | Wheat | INM | Application of zinc sulphate @ 25 kg/ha. as basal dose in rice-wheat cropping system | Through training prog., Gosthi , Field day, Electronic & Print media, Kisan Mela | 70 | 1500 | 600 |
| 4 | Paddy | IPM | Two spray of Imidiacloprid 17.8SL @ 150 ml/hac. at tillering stage & second dough stage to control BPH | Through training prog., Gosthi , Field day, Electronic & Print media, Kisan Mela | 60 | 950 | 450 |
| 5 | Wheat | Weed management | Weed control through Sulfo-Sulfuron 75WP @ 33 gm/ha. | Through training prog., Gosthi , Field day, Electronic & Print media, Kisan Mela | 90 | 850 | 600 |

# B. Front Line Demonstration on oil seeds & pulses under NFSM

## FLD - 1

## Urdbean (Kharif – 2017)

| S. N. | Crop | Thematic area | Technology Demonstrated | Season and year | Area (ha) | | No. of farmers/ Demonstration | | | Reasons for shortfall in achievement |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Proposed | Actual | SC/ST | Others | Total | |
| 1 | Urdbean | - ICM | - ICM through improved seed, weed & insect management | Kharif 2017 | 20.0 | 20.0 | 07 | 43 | 50 | N.A. |

### Details of farming situation

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | N | P | K | | | | | |
| Urdbean | Kharif 2017 | Irrigated | Loam | Medium | Low | Medium | Mustard/Wheat | 02-08 Aug, 2017 | 25 -31 Oct - 2017 | 8.65 | - |

### Performance of FLD

| Crop | Thematic Area | Technology Demonstrated | Variety | No. of Farmers | Area (ha.) | Demo. Yield q/ha | | | Yield of local Check q./ha | Increase in yield (%) | Economics of demonstration (Rs./ha.) | | | | Economics of check (Rs./ha.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | H | L | A | | | Gross Cost | Gross Return | Net return | BCR (R/C) | Gross Cost | Gross Return | Net return | BCR (R/C) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| Urd | - ICM | ICM through improved seed, weed & insect management | PU- 31 | 50 | 20.0 | 9.50 | 7.50 | 8.64 | 5.86 | 32.14 | 19825 | 43247 | 23036 | 2.18 | 18202 | 27402 | 10880 | 1.51 |

**a. Technical feedback**

| | |
|---|---|
| 1 | Uniform maturity & bold grain. |
| 2 | Increase the grain yield due to improved & certified variety of PU- 31. |
| 3 | Timely application of insecticide (Imidaclorpid 17.8 SL). |
| 4 | No incidence of pod borer due to timely application of insecticide (Imidaclorpid 17.8SL). |
| 5 | Very low number of weeds due to timely spraying of Imazathyper 10 EC @ 250 ml/demo. |

**b. Farmers reaction on specific technologies**

| S. N. | Feedback |
|---|---|
| 1 | Farmers have give positive response about variety PU -31 is higher grain yield as compare to local variety Alankar. |
| 2 | Uniform& short day maturity (85-95 days). |
| 3 | Low incidence of yellow Mosaic. |

**c. Extension and Training activities under FLD**

| S.No. | Activity | No. of activity organised | No. of participants | Remarks |
|---|---|---|---|---|
| 1 | Field Day | 01 | 22 | |
| 2. | Farmers Training | 01 | 20 | |
| 3 | Media coverage | 02 | mass | |

## FLD - 2
## Mustard

| S. N. | Crop | Thematic area | Technology Demonstrated | Season and year | Area (ha) | | No. of farmers/ Demonstration | | | Reasons for shortfall in achievement |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Proposed | Actual | SC/ST | Others | Total | |
| 1 | Mustard | ICM | - Replacment of local variety of mustard by RGN -48 | Rabi 2017-18 | 10.4 | 10.4 | 04 | 22 | 26 | N.A. |

### Details of farming situation

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | N | P | K | | | | | |
| Mustard | Rabi 2017-18 | Irrigated | Loam | Medium | Low | Medium | Paddy/Pulses | 25-28 Oct-, 2017 | 10-15 March 2018 | 8.65 | - |

### Performance of FLD

| Crop | Thematic Area | Technology Demonstrated | Variety | No. of Farmers | Area (ha.) | Demo. Yield q/ha | | | Yield of local Check q/ha | Increase in yield (%) | Economics of demonstration (Rs./ha.) | | | | Economics of check (Rs./ha.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | H | L | A | | | Gross Cost | Gross Return | Net return | BCR (R/C) | Gross Cost | Gross Return | Net return | BCR (R/C) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| Mustard | - ICM | - Replacment of local variety of mustard by RGN -48 | RGN -48 | 26 | 10.4 | 22.8 | 19.45 | 21.00 | 17.53 | 16.52 | 23813 | 70010 | 47120 | 2.95 | 23383 | 60257 | 36875 | 2.50 |

**a. Technical feedback**

| | |
|---|---|
| 1 | RGN - 48 is a bold seeded & high yielding variety with good oil content. |
| 2 | Grain yield has been increased due to timely sowing & no incidence of Aphids. |

**b. Farmers reaction on specific technologies**

| S. N. | Feedback |
|---|---|
| 1 | Farmers are agree to mustard variety RGN - 48 is good & high yielding variety. |
| 2 | Farmers are conveniced to no incidence of aphids due to timely sowing. |

**c. Extension and Training activities under FLD**

| S.No. | Activity | No. of activity organised | No. of participants | Remarks |
|---|---|---|---|---|
| 1 | Farmers Training | 01 | 20 | |
| 2. | Media coverage | 01 | mass | |

## FLD - 3
## Lentil (Rabi 2017-18)

| S. N. | Crop | Thematic area | Technology Demonstrated | Season and year | Area (ha) | | No. of farmers/ Demonstration | | | Reasons for shortfall in achievement |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Proposed | Actual | SC/ST | Others | Total | |
| 1 | Lentil | - ICM | - ICM through improved seed | Rabi 2017-18 | 20.0 | 20.0 | 11 | 39 | 50 | N.A. |

### Details of farming situation

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | N | P | K | | | | | |
| Lentil | Rabi 2017-18 | Irrigated | Loam | Medium | Low | Medium | Paddy/Bajra | 11-15 Oct. 2017 | 05-10 April 2018 | 8.65 | - |

### Performance of FLD

| Crop | Thematic Area | Technology Demonstrated | Variety | No. of Farmers | Area (ha.) | Demo. Yield q/ha | | | Yield of local Check q./ha | Increase in yield (%) | Economics of demonstration (Rs./ha.) | | | | Economics of check (Rs./ha.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | H | L | A | | | Gross Cost | Gross Return | Net return | BCR (R/C) | Gross Cost | Gross Return | Net return | BCR (R/C) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| Lentil | - ICM | ICM through improved seed | PL - 8 | 50 | 20.0 | 10.15 | 8.58 | 10.17 | 8.58 | 15.48 | 18007 | 36594 | 18987 | 2.04 | 14653 | 26883 | 12241 | 1.83 |

**a. Technical feedback**

| | |
|---|---|
| 1 | Uniform maturity & bold grain. |
| 2 | Increase the grain yield due to improved & HYV of PL -8. |

**b. Farmers reaction on specific technologies**

| S. N. | Feedback |
|---|---|
| 1 | Farmers have give positive response about variety PL – 8 variety of lentil, is higher grain yield as compare to local traditional variety. |
| 2 | No incidence of Blight. |

**c. Extension and Training activities under FLD**

| S.No. | Activity | No. of activity organised | No. of participants | Remarks |
|---|---|---|---|---|
| 1 | Field Day | 01 | 25 | |
| 2. | Farmers Training | 01 | 20 | |
| 3 | Media coverage | 02 | mass | |

# C. Front Line Demonstration on other than oil seeds & pulses

## FLD - 1

## Crop production : Paddy

| S. N. | Crop | Thematic area | Technology Demonstrated | Season and year | Area (ha) | | No. of farmers/ Demonstration | | | Reasons for shortfall in achievement |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Proposed | Actual | SC/ST | Others | Total | |
| 1 | Paddy | - Weed management | - Weed control through Pyrazosulfuron 10 WP @ 365 gm/ha. | Kharif 2017 | 6.0 | 6.0 | 03 | 12 | 15 | N.A. |

### Details of farming situation

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | N | P | K | | | | | |
| Paddy | Kharif 2017 | Irrigated | Loam | Medium | Low | Medium | Mentha/Wheat | 05-10 July 2017 | 29-31 Oct 2017 | 623.93 | - |

### Performance of FLD

| Crop | Thematic Area | Technology Demonstrated | Variety | No. of Farmers | Area (ha.) | Demo. Yield Qtl/ha | | | Yield of local Check Qtl./ha | Increase in yield (%) | Economics of demonstration (Rs./ha.) | | | | Economics of check (Rs./ha.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | H | L | A | | | Gross Cost | Gross Return | Net return | BCR (R/C) | Gross Cost | Gross Return | Net return | BCR (R/C) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| Paddy | - Weed management | Weed control through Pyrazosulfuron 10 WP @ 365 gm/ha. | PHB-71 | 15 | 6.0 | 73.25 | 69.15 | 71.85 | 58.18 | 19.05 | 49.86 | 108316 | 54466 | 2.17 | 49433 | 95602 | 46206 | 1.90 |

**Sale rate – Rs. 2800 per quintal.**

**a. Technical feedback**

| | |
|---|---|
| 1 | Pyrazosulfuron 10 WP is effectively for weed control (89.68%). |
| 2 | The grain yield has been increased up to 19% due to timely application of weedicide. |

**b. Farmers reaction on specific technologies**

| S. N. | Feedback |
|---|---|
| 1 | Farmers had given positive response of Pyrazosulfuron 10 WP, was more effective as compared to farmers practice |
| 2 | The grain yield has increased up to 19% due to timely application of weedicide. |

**c. Extension and Training activities under FLD**

| S.No. | Activity | No. of activity organised | No. of participants | Remarks |
|---|---|---|---|---|
| 1 | Field Day | 01 | 25 | |
| 2. | Farmers Training | 01 | 20 | |
| 3 | Media coverage | 02 | mass | |

## FLD - 2
## Crop production : Wheat

| S. N. | Crop | Thematic area | Technology Demonstrated | Season and year | Area (ha) | | No. of farmers/ Demonstration | | | Reasons for shortfall in achievement |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Proposed | Actual | SC/ST | Others | Total | |
| 1 | Wheat | Weed management | Use of Sulfo-Sulfuron 75WP @ 33 gm/ha. | Rabi 2017-18 | 6.0 | 6.0 | 06 | 09 | 15 | N.A. |

### Details of farming situation

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | N | P | K | | | | | |
| Wheat | Rabi 2017-18 | Irrigated | Loam | Medium | Low | Medium | Paddy/Urd | 25-30 Nov 2017 | 12-15 April 2018 | - | - |

### Performance of FLD

| Crop | Thematic Area | Technology Demonstrated | Variety | No. of Farmers | Area (ha.) | Demo. Yield q/ha | | | Yield of local Check q./ha | Increase in yield (%) | Economics of demonstration (Rs./ha.) | | | | Economics of check (Rs./ha.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | H | L | A | | | Gross Cost | Gross Return | Net return | BCR (R/C) | Gross Cost | Gross Return | Net return | BCR (R/C) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| Wheat | WM | Use of Sulfo-Sulfuron 75WP @ 33 gm/ha. . | HD-2967 | 15 | 6.0 | 48.65 | 45.75 | 48.65 | 41.50 | 14.70 | 38650 | 89008 | 50358 | 2.30 | 36500 | 76803 | 40303 | 2.10 |

Sale **rate – Rs. 1735 per quintal.**

**Technical feedback**

| | |
|---|---|
| 1 | Sulfo Sulfuron 75 WP is more effictive to weed control over to control plot up to 92.65%. |
| 2 | Due to tmely management of weed, the grain yield has been increased up to 14.70% over to control. |

**b. Farmers reaction on specific technologies**

| S. N. | Feedback |
|---|---|
| 1 | Farmers are convinced the grain yield has been increased due to timely weed management. |
| 2 | Minimized the weed infestation. |

**c. Extension and Training activities under FLD**

| S.No. | Activity | No. of activity organised | No. of participants | Remarks |
|---|---|---|---|---|
| 1 | Field Day | 01 | 25 | |
| 2. | Farmers Training | 01 | 20 | |
| 3 | Media coverage | 02 | mass | |

## FLD - 3
## Horticulture : Potato

| S. N. | Crop | Thematic area | Technology Demonstrated | Season and year | Area (ha) | | No. of farmers/ Demonstration | | | Reasons for shortfall in achievement |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Proposed | Actual | SC/ST | Others | Total | |
| 1 | Potato Variety – Chipsona -1 | Management of vegetable | Treated tubers and Ridge method sowing | Rabi 2017-18 | 2.0 | 2.0 | 01 | 04 | 05 | |

### Details of farming situation

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | N | P | K | | | | | |
| Potato | Rabi 2017-18 | Irrigated | Loam | Low | Medium | Low | Paddy | 25 Nov 2017 | 26 March 2018 | - | - |

### Performance of FLD

| Crop | Thematic Area | Technology Demonstrated | Variety | No. of Farmers | Area (ha.) | Demo. Yield q/ha | | | Yield of local Check q./ha | Increase in yield (%) | Economics of demonstration (Rs./ha.) | | | | Economics of check (Rs./ha.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | H | L | A | | | Gross Cost | Gross Return | Net return | BCR (R/C) | Gross Cost | Gross Return | Net return | BCR (R/C) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| Potato | Management of vegetable | Treated tubers and Ridge method sowing. | Chipsona -1 | 05 | 2.0 | 460 | 400 | 430 | 380 | 13.15 | 115000 | 344000 | 229000 | 2.99 | 109000 | 304000 | 105000 | 2.78 |

**Sale rate – Rs. 2800 per quintal.**

**Technical feedback**

| | |
|---|---|
| 1 | After paddy crop potato seed sown results are poor, yield affected. |
| 2 | Using green manuring of Dhaineha, after that potato tuber vari. Chipsona – 1, sown in Nov. 2017 and increased production. |

**b. Farmers reaction on specific technologies**

| S. N. | Feedback |
|---|---|
| 1 | Low potato yield recovery after paddy crop, hence tuber crop affected. |
| 2 | Good result of Potato tuber yield, due to use of green manuring. |

**c. Extension and Training activities under FLD**

| S.No. | Activity | No. of activity organised | No. of participants | Remarks |
|---|---|---|---|---|
| 1 | Field Day | - | - | - |
| 2. | Farmers Training | 01 | 20 | - |
| 3 | Media coverage | - | - | - |

## FLD No. : 4
**Soil Science : Paddy**

| S. N. | Crop | Thematic area | Technology Demonstrated | Season and year | Area (ha) | | No. of farmers/ Demonstration | | | Reasons for shortfall in achievement |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Proposed | Actual | SC/ST | Others | Total | |
| 1 | Paddy | INM | Micro-nutrient management through ZnSo4 (25 Kg/ha.) + FeSo4 (20 kg/ha) as basal dose | Kharif 2017 | 4.0 | 4.0 | - | 10 | 10 | |

### Details of farming situation

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | N | P | K | | | | | |
| Paddy | Kharif 2017 | Irrigated | Sandy loam and loam | Medium | Medium | Medium | Wheat | 12-19 July 2017 | 25-28 Oct. 2017 | - | - |

### Performance of FLD

| Crop | Thematic Area | Technology Demonstrated | Variety | No. of Farmers | Area (ha.) | Demo. Yield q/ha | | | Yield of local Check q./ha | Increase in yield (%) | Economics of demonstration (Rs./ha.) | | | | Economics of check (Rs./ha.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | H | L | A | | | Gross Cost | Gross Return | Net return | BCR (R/C) | Gross Cost | Gross Return | Net return | BCR (R/C) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| Paddy | INM. | Micro-nutrient management through ZnSo4 (25 Kg/ha.) +) FeSo4 (20 kg/ha) as basal dose | PB - 1509 | 10 | 4.0 | 48.8 | 47.9 | 48.46 | 43.60 | 12.0 | 53190 | 135688 | 81698 | 2.51 | 52985 | 120960 | 68075 | 2.28 |

**a. Technical feedback**

| S. No | Feed Back |
|---|---|
| 1 | There was no occurance of Khaira disease due to application of Zinc sulphate (25 Kg/ha.) in paddy crop. |
| 2 | There were no symptoms of iron defficiency due to application of Ferrous sulphate (20 Kg/ha.) in paddy crop. |

**b. Farmers reaction on specific technologies**

| S. N. | Feedback |
|---|---|
| 1 | Use of Zinc sulphate & Ferrous sulphate as basal dose in paddy crop to increase the yield. |

**c. Extension and Training activities under FLD**

| S.No. | Activity | No. of activity organised | No. of participants | Remarks |
|---|---|---|---|---|
| 1. | Farmers Training | 02 | 40 | |
| 2. | Media coverage | 02 | mass | |

**Sale rate – Rs. 2800 per quintal.**

## FLD No. : 5
**Soil Science : Paddy**

| S. N. | Crop | Thematic area | Technology Demonstrated | Season and year | Area (ha) | | No. of farmers/ Demonstration | | | Reasons for shortfall in achievement |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Proposed | Actual | SC/ST | Others | Total | |
| 1 | Paddy | INM | Use of water soluble fertilizer 18:18:18 NPK @ 12.5 Kg/ha. (Three spray) | Kharif 2017 | 6.0 | 6.0 | 04 | 11 | 15 | |

### Details of farming situation

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | N | P | K | | | | | |
| Paddy | Kharif 2017 | Irrigated | Sandy loam and loam | Medium | Medium | Medium | Wheat | 12-19 July 2017 | 25-28 Oct. 2017 | - | - |

### Performance of FLD

| Crop | Thematic Area | Technology Demonstrated | Variety | No. of Farmers | Area (ha.) | Demo. Yield q/ha | | | Yield of local Check q./ha | Increase in yield (%) | Economics of demonstration (Rs./ha.) | | | | Economics of check (Rs./ha.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | H | L | A | | | Gross Cost | Gross Return | Net return | BCR (R/C) | Gross Cost | Gross Return | Net return | BCR (R/C) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| Paddy | INM. | Use of water soluble fertilizer 18:18:18 NPK @ 12.5 Kg/ha. (Three spray) | PB - 1509 | 15 | 6.0 | 48.9 | 47.8 | 48.24 | 41.25 | 14.49 | 52850 | 135072 | 91222 | 2.50 | 52880 | 120400 | 67520 | 2.27 |

Sale rate – Rs. 2800 per quintal

**a. Technical feedback**

| S. No | Feed Back |
|---|---|
| 1 | Spray of water soluble fertilizer 18:18:18 NPK @ 12.5 Kg/ha. at tillering stage,before flowering & milking stage enhance crop yield. |

**b. Farmers reaction on specific technologies**

| S. N. | Feedback |
|---|---|
| 1 | Three spray of water soluble fertilizer 18:18:18 NPK is very effective to enhance the yield of paddy crop. |
| 2 | This technology save the cost of cultivation i.e. Fertilizers. |

**c. Extension and Training activities under FLD**

| S.No. | Activity | No. of activity organised | No. of participants | Remarks |
|---|---|---|---|---|
| 1. | Farmers Training | 02 | 40 | |
| 2. | Media coverage | 02 | mass | |

## FLD No. : 6
**Soil Science : Wheat**

| S. N. | Crop | Thematic area | Technology Demonstrated | Season and year | Area (ha) | | No. of farmers/ Demonstration | | | Reasons for shortfall in achievement |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Proposed | Actual | SC/ST | Others | Total | |
| 1 | Wheat | INM | Use of water soluble fertilizers in wheat crop | Rabi 2017-18 | 6.0 | 6.0 | 04 | 11 | 15 | |

### Details of farming situation

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | N | P | K | | | | | |
| Wheat | Rabi 2017-18 | Irrigated | Sandy loam and loam | Medium | Medium | Medium | Paddy | 25.11.17 to 29.11.17 | 15-20.04.18 | - | - |

### Performance of FLD

| | Thematic Area | Technology Demonstrated | Variety | No. of Farmers | Area (ha.) | Demo. Yield q/ha | | | Yield of local Check q./ha | Increase in yield (%) | Economics of demonstration (Rs./ha.) | | | | Economics of check (Rs./ha.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | H | L | A | | | Gross Cost | Gross Return | Net return | BCR (R/C) | Gross Cost | Gross Return | Net return | BCR (R/C) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| Wheat | INM. | Use of water soluble fertilizers in wheat crop | HD - 2967 | 15 | 6.0 | 48.6 | 47.8 | 48.2 | 40.1 | 20.19 | 36460 | 83627 | 45612 | 2.29 | 35540 | 69573 | 35033 | 2.01 |

Sale rate – Rs. 1735 per quintal

**a. Technical feedback**

| S. No | Feed Back |
|---|---|
| 1 | Spray of water soluble fertilizer 18:18:18 NPK @ 12.5 Kg/ha. at tillering stage,before flowering & milk stage enhance crop yield. |

**b. Farmers reaction on specific technologies**

| S. N. | Feedback |
|---|---|
| 1 | Three spray of water soluble fertilizer 18:18:18 NPK is very effective to enhance the yield of wheat crop. |
| 2 | This technology save the cost of cultivation i.e. Fertilizers. |

**c. Extension and Training activities under FLD**

| S.No. | Activity | No. of activity organised | No. of participants | Remarks |
|---|---|---|---|---|
| 1. | Farmers Training | 02 | 40 | |
| 2. | Media coverage | 02 | mass | |

# FLD No. : 7

## Plant Protection : Paddy

| S. N. | Crop | Thematic area | Technology Demonstrated | Season and year | Area (ha) | | No. of farmers/ Demonstration | | | Reasons for shortfall in achievement |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Proposed | Actual | SC/ST | Others | Total | |
| 1 | Paddy | IDM | Control of blast disease through Hexaconazole 4% + Zineb 68% (Two spray) 1 kg/ha. | Kharif 2017 | 4.0 | 4.0 | - | 10 | 10 | N.A. |

### Details of farming situation

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | N | P | K | | | | | |
| Paddy | Kharif 2017 | Irrigated | Loam | Low | Medium | Medium | Wheat | 07-13 July. 2017 | 28-30 Oct. 2017 | - | - |

### Performance of FLD

| Crop | Thematic Area | Technology Demonstrated | Variety | No. of Farmers | Area (ha.) | Demo. Yield q/ha | | | Yield of local Check q./ha | Increase in yield (%) | Economics of demonstration (Rs./ha.) | | | | Economics of check (Rs./ha.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | H | L | A | | | Gross Cost | Gross Return | Net return | BCR (R/C) | Gross Cost | Gross Return | Net return | BCR (R/C) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| Paddy | IDM | Control of blast disease through Hexaconazole 4% + Zineb 68% (Two spray) | PHB-71 | 10 | 4.0 | 63.5 | 59.25 | 61.37 | 54.50 | 12.6 | 39299 | 95123 | 55824 | 2.42 | 38075 | 84475 | 46400 | 2.21 |

**Sale rate – Rs. 2800 per quintal.**

**a. Technical feedback**

| S.No | Feed Back |
|---|---|
| 1 | First spray of Hexaconazole 4% + Zineb 68% should be done at the first occorance of disease symptoms on leaf and after that second spray of Hexaconazole 4% + Zineb 68% should be done after 15 days intervals of first spray is very effective to control of blast disease in paddy. |

**b. Farmers reaction on specific technologies**

| S. N. | Feedback |
|---|---|
| 1 | Two spray of Hexaconazole 4% + Zineb 68% is very effective to control blast disease in paddy. |

**c. Extension and Training activities under FLD**

| S.No. | Activity | No. of activity organised | No. of participants | Remarks |
|---|---|---|---|---|
| 1 | Field Days | 01 | 28 | |
| 2 | Media coverage | 01 | Mass | |

# FLD No. : 8

## Plant Protection: Paddy

| S. N. | Crop | Thematic area | Technology Demonstrated | Season and year | Area (ha) | | No. of farmers/ Demonstration | | | Reasons for shortfall in achievement |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Proposed | Actual | SC/ST | Others | Total | |
| 1 | Paddy | IDM | Control of Brown plant hopper in paddy through Buprofezin 25 SC (Two Spray) @ 1 lit/ha. | Kharif 2017 | 4.0 | 4.0 | - | 10 | 10 | N.A. |

### Details of farming situation

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | N | P | K | | | | | |
| Paddy | Kharif 2017 | Irrigated | Loam | Low | Low | Medium | Wheat | 07-13 July. 2017 | 27-30 Oct. 2017 | - | - |

### Performance of FLD

| Crop | Thematic Area | Technology Demonstrated | Variety | No. of Farmers | Area (ha.) | Demo. Yield q/ha | | | Yield of local Check q/ha | Increase in yield (%) | Economics of demonstration (Rs./ha.) | | | | Economics of check (Rs./ha.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | H | L | A | | | Gross Cost | Gross Return | Net return | BCR (R/C) | Gross Cost | Gross Return | Net return | BCR (R/C) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| paddy | IPM | Control of Brown plant hopper in paddy through Buprofezin 25 SC (Two Spray) @ 1 lit/ha. | PHB - 71 | 10 | 4.0 | 64.25 | 59.75 | 62 | 53.65 | 15.56 | 38898 | 96100 | 57202 | 2.47 | 38300 | 83157 | 44857 | 2.17 |

**Sale rate – Rs. 2800 per quintal.**

**a. Technical feedback**

| S.No | Feed Back |
|---|---|
| 1 | First spray of Buprofezin 25 SC at the beginning of insect infestation and second spray of Buprofezin 25 SC after 12 to 15 days of first spray is very effective to control of Brown plant hoppers.. |

**b. Farmers reaction on specific technologies**

| S. N. | Feedback |
|---|---|
| 1 | Two spray of Buprofezin 25 SC is very effective to control Brown plant hopper in paddy. |

**c. Extension and Training activities under FLD**

| S.No. | Activity | No. of activity organised | No. of participants | Remarks |
|---|---|---|---|---|
| 1 | Field Days | 01 | 25 | |
| 2 | Media coverage | 01 | Mass | |

# FLD No. : 9

## Plant Breeding: Wheat

| S. N. | Crop | Thematic area | Technology Demonstrated | Season and year | Area (ha) | | No. of farmers/ Demonstration | | | Reasons for shortfall in achievement |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Proposed | Actual | SC/ST | Others | Total | |
| 1 | Wheat | Promoting high yielding variety of wheat | To demonstrate the yield potential of new variety - DPW – 621-50 | Rabi 2017-18 | 1.0 | 1.0 | 02 | 03 | 05 | N.A. |

### Details of farming situation

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | N | P | K | | | | | |
| Wheat | Rabi 2017-18 | Irrigated | Sandy loam and loam | Low | Medium | Medium | Paddy | 18-11-17 to 21-11-17 | 14-16 April 2018 | - | - |

### Performance of FLD

| Crop | Thematic Area | Technology Demonstrated | Variety | No. of Farmers | Area (ha.) | Demo. Yield q/ha | | | Yield of local Check q./ha | Increase in yield (%) | Economics of demonstration (Rs./ha.) | | | | Economics of check (Rs./ha.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | H | L | A | | | Gross Cost | Gross Return | Net return | BCR (R/C) | Gross Cost | Gross Return | Net return | BCR (R/C) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| Wheat | Promoting high yielding variety of wheat | To demonstrate the yield potential of new variety. . | DPW – 621-50 | 05 | 1.0 | 53.5 | 46.7 | 50.1 | 42.8 | 17.06 | 32660 | 79408 | 46748 | 2.43 | 30960 | 67838 | 36878 | 2.19 |

Sale **rate – Rs. 1735 per quintal.**

**Technical feedback**

| | |
|---|---|
| 1 | Use of quality seed and new improved variety is essential. |
| 2 | Increase production requires timely sowing. |

**b. Farmers reaction on specific technologies**

| S. N. | Feedback |
|---|---|
| 1 | Vareity DPW – 621-50 is higher yielder as compared to variety PBW - 550. |

**c. Extension and Training activities under FLD**

| S.No. | Activity | No. of activity organised | No. of participants | Remarks |
|---|---|---|---|---|
| 1. | Farmers Training | 01 | 20 | |
| 2. | Media coverage | - | - | |

# FLD No. : 10

## Plant Breeding: Wheat

| S. N. | Crop | Thematic area | Technology Demonstrated | Season and year | Area (ha) | | No. of farmers/ Demonstration | | | Reasons for shortfall in achievement |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Proposed | Actual | SC/ST | Others | Total | |
| 1 | Wheat | Promoting high yielding variety of wheat under late sown condition | To demonstrate the yield potential of wheat variety under late sown condition Variety - PBW – 590 | Rabi 2017-18 | 1.0 | 1.0 | 02 | 03 | 05 | N.A. |

### Details of farming situation

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | N | P | K | | | | | |
| Wheat | Rabi 2017-18 | Irrigated | Sandy loam | Low | Medium | Medium | Paddy | 3-5 Dec. 2017 | 15-16 April 2018 | - | - |

### Performance of FLD

| Crop | Thematic Area | Technology Demonstrated | Variety | No. of Farmers | Area (ha.) | Demo. Yield q/ha | | | Yield of local Check q./ha | Increase in yield (%) | Economics of demonstration (Rs./ha.) | | | | Economics of check (Rs./ha.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | H | L | A | | | Gross Cost | Gross Return | Net return | BCR (R/C) | Gross Cost | Gross Return | Net return | BCR (R/C) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| Wheat | Promoting HYV of wheat under late sown condition | To demonstrate the yield potential of wheat variety under late sown condition. | PBW - 590 | 05 | 1.0 | 45.1 | 40.3 | 42.7 | 34.8 | 22.70 | 32100 | 67630 | 35580 | 2.12 | 30400 | 55158 | 24760 | 1.81 |

Sale **rate – Rs. 1735 per quintal.**

**Technical feedback**

| | |
|---|---|
| 1 | Use of of new improved variety and quality seed is essential. |
| 2 | Use of recommended variety under late sown condition. |

**b. Farmers reaction on specific technologies**

| S. N. | Feedback |
|---|---|
| 1 | Vareity PBW - 590 is higher grain yielder as compared to variety PBW - 373. |
| 2 | Variety PBW – 590 is good under late sown condition. |

**c. Extension and Training activities under FLD**

| S.No. | Activity | No. of activity organised | No. of participants | Remarks |
|---|---|---|---|---|
| 1. | Farmers Training | 01 | 20 | |
| 2. | Field day | 01 | 21 | |

## FLD No. : 11
**Soil Science : Sugarcane**

| S. N. | Crop | Thematic area | Technology Demonstrated | Season and year | Area (ha) | | No. of farmers/ Demonstration | | | Reasons for shortfall in achievement |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Proposed | Actual | SC/ST | Others | Total | |
| 1 | S.Cane | INM | Nutrient mangement through Zinc sulphate - 25kg/ha & FeSo4 - 20kg/ha. | Zaid 2017 | 4.0 | 4.0 | 09 | 01 | 10 | - |

### Details of farming situation

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | N | P | K | | | | | |
| S.cane | Zaid 2017 | Irrigated | Sandy loam and loam | Medium | Medium | Low | Wheat | 04-10 March 2017 | 20-25.03.2018 | - | - |

### Performance of FLD

| Crop | Thematic Area | Technology Demonstrated | Variety | No. of Farmers | Area (ha.) | Demo. Yield q/ha | | | Yield of local Check q/ha | Increase in yield (%) | Economics of demonstration (Rs./ha.) | | | | Economics of check (Rs./ha.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | H | L | A | | | Gross Cost | Gross Return | Net return | BCR (R/C) | Gross Cost | Gross Return | Net return | BCR (R/C) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| S.cane | INM | Nutrient mangement through Zinc sulphate - 25kg/ha & FeSo4 - 20kg/ha. | COJ-0238 | 10 | 4.0 | 890.3 | 755.3 | 888.5 | 698.2 | 27.25 | 88520 | 288762 | 200242 | 3.26 | 86720 | 226915 | 140195 | 2.61 |

Sale rate – Rs. 325 per quintal

**a. Technical feedback**

| S.No | Feed Back |
|---|---|
| 1 | Use of Zinc sulphate (25 Kg/ha.) + Ferrous sulphate 20 Kg/ha. in S.cane crop is essential for healthy & vigourous crop & also to stop the stunting growth of the crop. |

**b. Farmers reaction on specific technologies**

| S. N. | Feedback |
|---|---|
| 1 | Use of Zinc sulphate (25 Kg/ha.) + Ferrous sulphate 20 Kg/ha. in S.cane crop gave better yield as compare to un treated plots. |

**c. Extension and Training activities under FLD**

| S.No. | Activity | No. of activity organised | No. of participants | Remarks |
|---|---|---|---|---|
| 1 | Farmers training | 01 | 20 | |
| 2 | Media coverage | 01 | Mass | |

## FLD No. : 12
**Soil Science : Sugarcane**

| S. N. | Crop | Thematic area | Technology Demonstrated | Season and year | Area (ha) | | No. of farmers/ Demonstration | | | Reasons for shortfall in achievement |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Proposed | Actual | SC/ST | Others | Total | |
| 1 | S.Cane | INM | Use of water soluble fertilizer 18:18:18 NPK @ 13.75 Kg/ha. | Zaid 2017 | 4.0 | 4.0 | - | 10 | 10 | - |

### Details of farming situation

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | N | P | K | | | | | |
| S.cane | Zaid 2017 | Irrigated | Sandy loam and loam | Medium | Medium | Low | Wheat | 04-06 March 2017 | 25-30 March 2018 | - | - |

### Performance of FLD

| Crop | Thematic Area | Technology Demonstrated | Variety | No. of Farmers | Area (ha.) | Demo. Yield q/ha | | | Yield of local Check q./ha | Increase in yield (%) | Economics of demonstration (Rs./ha.) | | | | Economics of check (Rs./ha.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | H | L | A | | | Gross Cost | Gross Return | Net return | BCR (R/C) | Gross Cost | Gross Return | Net return | BCR (R/C) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| S.cane | INM | Use of water soluble fertilizer 18:18:18 NPK @ 13.75 Kg/ha. | COJ-0238 | 10 | 4.0 | 910.6 | 786.3 | 896.8 | 720.6 | 24.45 | 88542 | 291460 | 202918 | 3.29 | 87510 | 234195 | 149685 | 2.67 |

Sale rate – Rs. 325 per quintal

**a. Technical feedback**

| S.No | Feed Back |
|---|---|
| 1 | Use of water soluble fertilizer 18:18:18 NPK 13.75 Kg/ha.in S.cane crop is essential for healthy & vigourous crop & also to stop the stunting growth of the crop. |

**b. Farmers reaction on specific technologies**

| S. N. | Feedback |
|---|---|
| 1 | Use of water soluble fertilizer 18:18:18 NPK 13.75 Kg/ha. in S.cane crop gave better yield as compare to un treated plots. |

**c. Extension and Training activities under FLD**

| S.No. | Activity | No. of activity organised | No. of participants | Remarks |
|---|---|---|---|---|
| 1 | Farmers training | 01 | 20 | |
| 2 | Media coverage | 01 | Mass | |

# FLD No. : 13

## Plant Protection : Mentha

| S. N. | Crop | Thematic area | Technology Demonstrated | Season and year | Area (ha) | | No. of farmers/ Demonstration | | | Reasons for shortfall in achievement |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Proposed | Actual | SC/ST | Others | Total | |
| 1 | Mentha | IPM | Control of leaf eating caterpillars through Quinalphos 25 EC @ 2.0 lit/ha. & Monocrotophos 36 SL @ 1.5 lit/ha. as I and II spray, respectively. | Zaid 2017 | 4.0 | 4.0 | 04 | 06 | 10 | N.A. |

### Details of farming situation

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | N | P | K | | | | | |
| Mentha | Zaid 2017 | Irrigated | Loam & Sandy loam | Low | Medium | Medium | Potato | 08-12 Feb 2017 | 6 – 10 June 2017 | - | - |

### Performance of FLD

| Crop | Thematic Area | Technology Demonstrated | Variety | No. of Farmers | Area (ha.) | Demo. Yield Kg./ha | | | Yield of local Check Kg./ha | Increase in yield (%) | Economics of demonstration (Rs./ha.) | | | | Economics of check (Rs./ha.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | H | L | A | | | Gross Cost | Gross Return | Net return | BCR (R/C) | Gross Cost | Gross Return | Net return | BCR (R/C) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| Mentha | IPM | Control of leaf eating cateroillars through Quinalphos 25 EC @ 2.0 lit/ha. & Monocrotophos 36 SL @ 1.5 lit/ha. as I and II spray respectively | Kosi | 10 | 4.0 | 122.5 Kg | 117.5 Kg | 120 Kg | 106.5 Kg | 12.67 | 63875 | 120000 | 56125 | 1.67 | 63000 | 106500 | 43500 | 1.69 |

**Technical feedback**

| S.No | Feed Back |
|---|---|
| 1 | First spray of quinalphos 25EC at the beginning of insect infestation and second spray of monocrotophos 36SL after 15 to 20 days of first spray is very effective to control the leaf eating caterpillars in mentha and others harmful insects. |

**b. Farmers reaction on specific technologies**

| S. N. | Feedback |
|---|---|
| 1 | Spray of quinalphos and monocrotophos seperately as I and II spray, respectively is very effective to control leaf caterpillars in mentha crop. |

**c. Extension and Training activities under FLD**

| S.No. | Activity | No. of activity organised | No. of participants | Remarks |
|---|---|---|---|---|
| 1 | Field Days | 01 | 27 | |
| 2 | Media coverage | 01 | Mass | |

# FLD No. : 14

## Plant Protection : Mentha

| S. N. | Crop | Thematic area | Technology Demonstrated | Season and year | Area (ha) | | No. of farmers/ Demonstration | | | Reasons for shortfall in achievement |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Proposed | Actual | SC/ST | Others | Total | |
| 1 | Mentha | IPM | Control of leaf eating caterpillars through Emamectin Benzoate 5SG @ 250gm/ha. (Two spray) | Zaid 2018 | 4.0 | 4.0 | 04 | 06 | 10 | N.A. |

## Details of farming situation

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | N | P | K | | | | | |
| Mentha | Zaid 2017 | Irrigated | Loam & Sandy loam | Low | Medium | Medium | Potato | 08-11 Feb 2018 | - | - | - |

## Performance of FLD

| Crop | Thematic Area | Technology Demonstrated | Variety | No. of Farmers | Area (ha.) | Demo. Yield Kg./ha | | | Yield of local Check Kg./ha | Increase in yield (%) | Economics of demonstration (Rs./ha.) | | | | Economics of check (Rs./ha.) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | H | L | A | | | Gross Cost | Gross Return | Net return | BCR (R/C) | Gross Cost | Gross Return | Net return |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| Mentha | IPM | Control of leaf eating caterpillars through Emamectin Benzoate 5SG @ 250gm/ha. (Two spray) | Kosi | 10 | 4.0 | **Result awaited** | | | | | | | | | | | |

# III. (A) Achievements on Training (April 2017 to March 2018)
## Brief Achievement of Training

| Discipline | No. of courses | Others | | | SC/ST | | | G.Total |
|---|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total | |
| **Practicing Farmers & Farm Women On Campus** | | | | | | | | |
| Crop Production | 10 | 130 | - | 130 | 70 | - | 70 | 200 |
| Horticulture | 05 | 94 | - | 94 | 06 | - | 06 | 100 |
| Agro Forestry | - | - | - | - | - | - | - | - |
| Soil Sciene | 08 | 131 | - | 131 | 29 | - | 29 | 160 |
| Plant protection | 07 | 115 | - | 115 | 25 | - | 25 | 140 |
| Plant Breeding | 06 | 105 | - | 105 | 15 | - | 15 | 120 |
| Agri. Ext. | 02 | 30 | - | 30 | 10 | - | 10 | 40 |
| **Total** | **38** | **606** | **-** | **606** | **154** | **-** | **154** | **760** |

| **Practicing Farmers & Farm Women Off Campus** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Crop Production | 12 | 145 | - | 145 | 95 | - | 95 | 240 |
| Horticulture | 05 | 67 | - | 67 | 33 | - | 33 | 100 |
| Agro Forestry | 02 | 37 | - | 37 | 03 | - | 03 | 40 |
| Soil Science | 13 | 248 | - | 248 | 12 | - | 12 | 260 |
| Plant protection | 09 | 154 | - | 154 | 26 | - | 26 | 180 |
| Plant Breeding | 06 | 117 | - | 117 | 03 | - | 03 | 120 |
| Agri. Ext. | 01 | 20 | - | 20 | - | - | - | 20 |
| **Total** | **48** | **788** | **-** | **788** | **172** | **-** | **172** | **960** |

| **Rural Youth** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Crop Production | 01 | 08 | - | 08 | 02 | - | 02 | 10 |
| Horticulture | - | - | - | - | - | - | - | - |
| Agro Forestry | - | - | - | - | - | - | - | - |
| Soil Science | 01 | 08 | - | 08 | 02 | - | 02 | 10 |
| Plant Protection | 02 | 19 | 01 | 20 | - | - | - | 20 |
| Plant Breeding | 02 | 18 | - | 18 | 02 | - | 02 | 20 |
| **Total** | **06** | **53** | **01** | **54** | **06** | **-** | **06** | **60** |

| **Extension functionaries** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Crop Production | 03 | 19 | - | 19 | 11 | - | 11 | 30 |
| Horticulture | - | - | - | - | - | - | - | - |
| Agro Forestry | - | - | - | - | - | - | - | - |
| Soil Science | 10 | 83 | - | 83 | 17 | - | 17 | 100 |
| Plant protection | 08 | 57 | - | 57 | 23 | - | 23 | 80 |
| Plant Breeding | 01 | 08 | - | 08 | 02 | - | 02 | 10 |
| Agri. Ext. | 01 | 10 | - | 10 | - | - | - | 10 |
| **Total** | **23** | **177** | **-** | **177** | **53** | **-** | **53** | **230** |

## III. (B) Training programme

### Farmers' Training including sponsored training programme

### A) On Campus)

| Thematic Area | No. of courses | No. of participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Others | | | SC/ST | | | Grand Total | | |
| | | M | F | T | M | F | T | M | F | T |
| **A) Farmers & Farm Women** | | | | | | | | | | |
| **I. Crop production** | | | | | | | | | | |
| - Weed management | 01 | 18 | - | 18 | 02 | - | 02 | 20 | - | 20 |
| Resource Conservation Technology | 01 | 14 | - | 14 | 06 | - | 06 | 20 | - | 20 |
| Cropping system | - | - | - | - | - | - | - | - | - | - |
| Micro irrigation/ irrigation | - | - | - | - | - | - | - | - | - | - |
| Nursery management | 01 | 17 | - | 17 | 03 | - | 03 | 20 | - | 20 |
| Integrated Crop Management | 03 | 37 | - | 37 | 23 | - | 23 | 60 | - | 60 |
| Integrated nutrient management | 04 | 44 | - | 44 | 36 | - | 36 | 80 | - | 80 |
| Others (Plant Breeding) | 05 | 93 | - | 93 | 07 | - | 07 | 100 | - | 100 |
| **Total** | **15** | **223** | **-** | **223** | **77** | **-** | **77** | **300** | **-** | **300** |
| **II. Horticulture** | | | | | | | | | | |
| **(a) Vegetable crops** | | | | | | | | | | |
| Nursery raising | 01 | 19 | - | 19 | 01 | - | 01 | 20 | - | 20 |
| **Others -** - Production technology | 03 | 57 | - | 57 | 03 | - | 03 | 60 | - | 60 |
| **Total (a)** | **04** | **76** | **-** | **76** | **04** | **-** | **04** | **80** | **-** | **80** |
| **(b) Fruits** | | | | | | | | | | |
| - Cultivation of fruits | - | - | - | - | - | - | - | - | - | - |
| Training & Pruning | 01 | 19 | - | 19 | 01 | - | 01 | 20 | - | 20 |
| **Total (b)** | **01** | **19** | **-** | **19** | **01** | **-** | **01** | **20** | **-** | **20** |
| **(c) Ornamental plants** | | | | | | | | | | |
| **Total (c)** | | | | | | | | | | |
| **(e) Tuber Crops** | | | | | | | | | | |
| **Total (e)** | | | | | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **(f) Spices** | | | | | | | | | | |
| **Total (f)** | - | - | - | - | - | - | - | - | - | - |
| **(g) Medicinal & Aeromatic plants** | | | | | | | | | | |
| - Production & Management Tech. | 01 | 12 | - | 12 | 08 | - | 08 | 20 | - | 20 |
| - Cultivation of fruits | | | | | | | | | | |
| **Total (g)** | **01** | **12** | **-** | **12** | **08** | **-** | **08** | **20** | **-** | **20** |
| **Total (a-g)** | **06** | **107** | **-** | **107** | **13** | **-** | **13** | **120** | **-** | **120** |
| **III. Soil Health and Fertility Management** | | | | | | | | | | |
| Soil Fertility Management | - | - | - | - | - | - | - | - | - | - |
| INM | 03 | 48 | - | 48 | 12 | - | 12 | 60 | - | 60 |
| Production & use of organic inputs | 02 | 32 | - | 32 | 08 | - | 08 | 40 | - | 40 |
| Micro-nutrient deficiency in crops | 01 | 15 | - | 15 | 05 | - | 05 | 20 | - | 20 |
| Balance use of fertilizers | 01 | 17 | - | 17 | 03 | - | 03 | 20 | - | 20 |
| Soil & Water testing | 01 | 19 | - | 19 | 01 | - | 01 | 20 | - | 20 |
| **Total** | **08** | **131** | **-** | **131** | **29** | **-** | **29** | **160** | **-** | **160** |
| **IV. Livestock Production and Management** | | | | | | | | | | |
| - Dairy Management | - | - | - | - | - | - | - | - | - | - |
| **Total** | - | - | - | - | - | - | - | - | - | - |
| **VII. Plant Protection** | | | | | | | | | | |
| - IPM | 05 | 83 | - | 83 | 17 | - | 17 | 100 | - | 100 |
| - IDM | 02 | 32 | - | 32 | 08 | - | 08 | 40 | - | 40 |
| **Total** | **07** | **115** | **-** | **115** | **25** | **-** | **25** | **140** | **-** | **140** |
| **XI. Agro forestry** | | | | | | | | | | |
| - Production technology | - | - | - | - | - | - | - | - | - | - |
| **Total** | - | - | - | - | - | - | - | - | - | - |
| **GRAND TOTAL** | **36** | **576** | **-** | **576** | **144** | **-** | **144** | **720** | **-** | **720** |

## B) Off Campus

| Thematic Area | No. of courses | No. of participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Others | | | SC/ST | | | Grand Total | | |
| | | M | F | T | M | F | T | M | F | T |
| **A) Farmers & Farm Women** | | | | | | | | | | |
| **I. Crop production** | | | | | | | | | | |
| - Weed management | 01 | 12 | - | 12 | 08 | - | 08 | 20 | - | 20 |
| Croping System | | | | | | | | | | |
| Integrated Crop Management | 08 | 107 | - | 107 | 53 | - | 53 | 160 | - | 160 |
| Integrated nutrient management | 03 | 26 | - | 26 | 34 | - | 34 | 60 | - | 60 |
| Others (Plant Breeding) | 05 | 97 | - | 97 | 03 | - | 03 | 100 | - | 100 |
| **Total** | **17** | **242** | **-** | **242** | **98** | **-** | **98** | **340** | **-** | **340** |
| **II. Horticulture** | | | | | | | | | | |
| **(a) Vegetable crops** | | | | | | | | | | |
| **Others** (Production technique) | 02 | 26 | - | 26 | 14 | - | 14 | 40 | - | 40 |
| **Total (a)** | **02** | **26** | **-** | **26** | **14** | **-** | **14** | **40** | **-** | **40** |
| **(b) Fruits** | | | | | | | | | | |
| -Cultivation of fruits | 01 | 19 | - | 19 | 01 | - | 01 | 20 | - | 20 |
| **Total (b)** | **01** | **19** | **-** | **19** | **01** | **-** | **01** | **20** | **-** | **20** |
| **(c) Ornamental plants** | | | | | | | | | | |
| **Total (c)** | | | | | | | | | | |
| **(e) Tuber Crops** | | | | | | | | | | |
| - Production & Management Tech. | 02 | 22 | - | 22 | 18 | - | 18 | 40 | - | 40 |
| **Total (e)** | **02** | **22** | **-** | **22** | **18** | **-** | **18** | **40** | **-** | **40** |
| **(f) Spices** | | | | | | | | | | |
| - Production & Management Tech. | | | | | | | | | | |
| **Total (f)** | | | | | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **(g) Medicinal & Aeromatic plants** | | | | | | | | | | |
| - Production & Management Tech. | 01 | 20 | - | 20 | - | - | - | 20 | - | 20 |
| - Cultivation of fruits | | | | | | | | | | |
| **Total (g)** | **01** | **20** | **-** | **20** | **-** | **-** | **-** | **20** | **-** | **20** |
| **Total (a-g)** | **06** | **87** | **-** | **87** | **33** | **-** | **33** | **120** | **-** | **120** |
| **III. Soil Health and Fertility Management** | | | | | | | | | | |
| Soil Fertility Management | - | - | - | - | - | - | - | - | - | - |
| INM | 04 | 72 | - | 72 | 08 | - | 08 | 80 | - | 80 |
| Production & use of organic inputs | 01 | 20 | - | 20 | - | - | - | 20 | - | 20 |
| Micro-nutrient deficiency in crops | 03 | 57 | - | 57 | 03 | - | 03 | 60 | - | 60 |
| Balance use of fertilizers | 03 | 60 | - | 60 | - | - | - | 60 | - | 60 |
| Soil & Water testing | 02 | 39 | - | 39 | 01 | - | 01 | 40 | - | 40 |
| **Total** | **13** | **248** | **-** | **248** | **12** | **-** | **12** | **260** | **-** | **260** |
| **IV. Livestock Production and Management** | | | | | | | | | | |
| - Dairy Management | | | | | | | | | | |
| - Animal Nutrition management | | | | | | | | | | |
| - Disease Management | | | | | | | | | | |
| - Feed & fodder technology | | | | | | | | | | |
| **Total** | | | | | | | | | | |
| **VII. Plant Protection** | | | | | | | | | | |
| - IPM | 05 | 94 | - | 94 | 06 | - | 06 | 100 | - | 100 |
| - IDM | 04 | 60 | - | 60 | 20 | - | 20 | 80 | - | 80 |
| **Total** | **09** | **154** | **-** | **154** | **26** | **-** | **26** | **180** | **-** | **180** |
| **XI. Agro forestry** | | | | | | | | | | |
| - Production technology | 02 | 37 | - | 37 | 03 | - | 03 | 40 | - | 40 |
| **Total** | **02** | **37** | **-** | **37** | **03** | **-** | **03** | **40** | **-** | **40** |
| **GRAND TOTAL** | **47** | **768** | **-** | **768** | **172** | **-** | **172** | **940** | **-** | **940** |

## C. On + Off Campus

| Thematic Area | No. of courses | No. of participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Others | | | SC/ST | | | Grand Total | | |
| | | M | F | T | M | F | T | M | F | T |
| **A) Farmers & Farm Women** | | | | | | | | | | |
| **I. Crop production** | | | | | | | | | | |
| - Weed management | 02 | 30 | - | 30 | 10 | - | 10 | 40 | - | 40 |
| Resource Conservation Technology | 01 | 14 | - | 14 | 06 | - | 06 | 20 | - | 20 |
| Cropping system | | | | | | | | | | |
| Micro irrigation/ irrigation | | | | | | | | | | |
| Nursery management | 01 | 17 | - | 17 | 03 | - | 03 | 20 | - | 20 |
| Integrated Crop Management | 11 | 144 | - | 144 | 76 | - | 76 | 220 | - | 220 |
| Integrated nutrient management | 07 | 70 | - | 70 | 70 | - | 70 | 140 | - | 140 |
| Others (Plant Breeding) | 10 | 190 | - | 190 | 10 | - | 10 | 200 | - | 200 |
| **Total** | **32** | **465** | **-** | **465** | **175** | **-** | **175** | **640** | **-** | **640** |
| **II. Horticulture** | | | | | | | | | | |
| **(a) Vegetable crops** | | | | | | | | | | |
| Nursery raising | 01 | 19 | - | 19 | 01 | - | 01 | 20 | - | 20 |
| - Others Production technology | 05 | 83 | - | 83 | 17 | - | 17 | 100 | - | 100 |
| **Total (a)** | **06** | **102** | **-** | **102** | **18** | **-** | **18** | **120** | **-** | **120** |
| **(b) Fruits** | | | | | | | | | | |
| Training & Pruning | 01 | 19 | - | 19 | 01 | - | 01 | 20 | - | 20 |
| Cultivation of fruits | 01 | 19 | - | 19 | 01 | - | 01 | 20 | - | 20 |
| **Total (b)** | **02** | **38** | **-** | **38** | **02** | **-** | **02** | **40** | **-** | **40** |
| **(c) Ornamental plants** | | | | | | | | | | |
| **Total (c)** | | | | | | | | | | |
| **(e) Tuber Crops** | | | | | | | | | | |
| - Prod. & Manag. Tech. | 02 | 22 | - | 22 | 18 | - | 18 | 40 | - | 40 |
| **Total (e)** | **02** | **22** | **-** | **22** | **18** | **-** | **18** | **40** | **-** | **40** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **(f) Spices** | | | | | | | | | | |
| - Production & Management Tech. | | | | | | | | | | |
| **Total (f)** | | | | | | | | | | |
| **(g) Medicinal & Aeromatic plants** | | | | | | | | | | |
| - Production & Management Tech. | 02 | 32 | - | 32 | 8 | - | 8 | 40 | - | 40 |
| - Cultivation of fruits | | | | | | | | | | |
| **Total (g)** | **02** | **32** | **-** | **32** | **8** | **-** | **8** | **40** | **-** | **40** |
| **Total (a-g)** | **12** | **194** | **-** | **194** | **46** | **-** | **46** | **240** | **-** | **240** |
| **III. Soil Health and Fertility Management** | | | | | | | | | | |
| Soil Fertility Management | - | - | - | - | - | - | - | - | - | - |
| INM | 07 | 120 | - | 120 | 20 | - | 20 | 140 | - | 140 |
| Production & use of organic inputs | 03 | 52 | - | 52 | 08 | - | 08 | 60 | - | 60 |
| Micro-nutrient deficiency in crops | 04 | 72 | - | 72 | 08 | - | 08 | 80 | - | 80 |
| Balance use of fertilizers | 04 | 77 | - | 77 | 03 | - | 03 | 80 | - | 80 |
| Soil & Water testing | 03 | 58 | - | 58 | 02 | - | 02 | 60 | - | 60 |
| **Total** | **21** | **379** | **-** | **379** | **41** | **-** | **41** | **420** | **-** | **420** |
| **IV. Livestock Production and Management** | | | | | | | | | | |
| - Dairy Management | | | | | | | | | | |
| **Total** | | | | | | | | | | |
| **VII. Plant Protection** | | | | | | | | | | |
| - IPM | 10 | 177 | - | 177 | 23 | - | 23 | 20 | - | 20 |
| - IDM | 6 | 92 | - | 92 | 28 | - | 28 | 120 | - | 120 |
| **Total** | **16** | **269** | **-** | **269** | **51** | **-** | **51** | **320** | **-** | **320** |
| **XI. Agro forestry** | | | | | | | | | | |
| - Production technology | 02 | 37 | - | 37 | 03 | - | 03 | 40 | - | 40 |
| **Total** | **02** | **37** | **-** | **37** | **03** | **-** | **03** | **40** | **-** | **40** |
| **GRAND TOTAL** | **83** | **1344** | **-** | **1344** | **316** | **-** | **316** | **1660** | **-** | **1660** |

## D. RURAL YOUTH / VOCATIONAL TRAINING (ON CAMPUS)

| Area of training | No. of courses | No. of participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Others | | | SC/ST | | | Grand Total | | |
| | | M | F | T | M | F | T | M | F | T |
| Production of organic inputs | | | | | | | | | | |
| Vermi composting | - | - | - | - | - | - | - | - | - | - |
| Press mud composting | - | - | - | - | - | - | - | - | - | - |
| Mushroom production | - | - | - | - | - | - | - | - | - | - |
| Bee Keeping | - | - | - | - | - | - | - | - | - | - |
| Seed Production (Rice) | - | - | - | - | - | - | - | - | - | - |
| Seed Production (Rice & wheat) | 02 | 18 | - | 18 | 02 | - | 02 | 20 | - | 20 |
| **Grand Total** | **02** | **18** | **-** | **18** | **02** | **-** | **02** | **20** | **-** | **20** |

## E. RURAL YOUTH / VOCATIONAL TRAINING (OFF CAMPUS)

| Area of training | No. of courses | No. of participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Others | | | SC/ST | | | Grand Total | | |
| | | M | F | T | M | F | T | M | F | T |
| Production of organic inputs | 02 | 16 | - | 16 | 04 | - | 04 | 20 | - | 20 |
| Vermi composting | | | | | | | | | | |
| Press mud composting | | | | | | | | | | |
| Mushroom production | | | | | | | | | | |
| Bee Keeping | 02 | 16 | 01 | 17 | 03 | - | 03 | 19 | 01 | 20 |
| Seed Production (Rice) | | | | | | | | | | |
| Dairying | | | | | | | | | | |
| Sheep and **goat rearing** | | | | | | | | | | |
| Poultry production | | | | | | | | | | |
| **Grand Total** | **04** | **32** | **01** | **33** | **07** | **-** | **07** | **39** | **01** | **40** |

## F. RURAL YOUTH / VOCATIONAL TRAINING (ON + OFF CAMPUS)

| Area of training | No. of courses | No. of participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Others | | | SC/ST | | | Grand Total | | |
| | | M | F | T | M | F | T | M | F | T |
| Production of organic inputs | 02 | 16 | - | 16 | 04 | - | 04 | 20 | - | 20 |
| Vermi composting | | | | | | | | | | |
| Press mud composting | | | | | | | | | | |
| Mushroom production | | | | | | | | | | |
| Bee Keeping | 02 | 16 | 01 | 17 | 03 | - | 03 | 19 | 01 | 20 |
| Seed Production (Rice) | - | - | - | - | - | - | - | - | - | - |
| Seed Production (Rice & wheat) | 02 | 18 | - | 18 | 02 | - | 02 | 20 | - | 20 |
| Planting Material Production (Medicinal & Aromatic plants) | - | - | - | - | - | - | - | - | - | - |
| Commercial spices production | | | | | | | | | | |
| Commercial Fruit Production & Nursery | - | - | - | - | - | - | - | - | - | - |
| Dairying | - | - | - | - | - | - | - | - | - | - |
| Sheep and **goat rearing** | - | - | - | - | - | - | - | - | - | - |
| Poultry production | - | - | - | - | - | - | - | - | - | - |
| **Grand Total** | **06** | **50** | **-** | **50** | **09** | **-** | **09** | **59** | **01** | **60** |

## G. EXTENSION PERSONNEL (OFF CAMPUS)

| Area of training | No. of courses | No. of participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Others | | | SC/ST | | | Grand Total | | |
| | | M | F | T | M | F | T | M | F | T |
| INM | 09 | 76 | - | 76 | 14 | - | 14 | 90 | - | 90 |
| Production & use of organic inputs | 04 | 35 | - | 35 | 05 | - | 05 | 40 | - | 40 |
| Productivity enhancement in field crops | | | | | | | | | | |
| Integrated pests management | 08 | 57 | - | 57 | 23 | - | 23 | 80 | - | 80 |
| Productivity enhancement of Horticultural crops | - | - | - | - | - | - | - | - | - | - |
| Productivity enhancement of Agro-forestry | - | - | - | - | - | - | - | - | - | - |
| Disease Management of farm animals | - | - | - | - | - | - | - | - | - | - |
| Production enhancement of medicinal & aeromatic crop | - | - | - | - | - | - | - | - | - | - |
| Livestock feed and fodder production | - | - | - | - | - | - | - | - | - | - |
| Women and child care | - | - | - | - | - | - | - | - | - | - |
| Others (Seed Production) | 01 | 08 | - | 08 | 02 | - | 02 | 10 | - | 10 |
| **Grand Total** | **22** | **176** | **-** | **176** | **44** | **-** | **44** | **220** | **-** | **220** |

## F. 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** | | | | | | | | | | |
| Increasing production and Productivity of crops | | | | | | | | | | |
| Commercial production of vegetables & Fruits | | | | | | | | | | |
| **Production and value addition** | | | | | | | | | | |
| Fruit Plants | | | | | | | | | | |
| Ornamental plants | | | | | | | | | | |
| Spices crops | | | | | | | | | | |
| Soil health and fertility management Vermi composting | | | | | | | | | | |
| Production of inputs at site | | | | | | | | | | |
| Methods of protective cultivation | | | | | | | | | | |
| **Others** | | | | | | | | | | |
| Press mud composting | | | | | | | | | | |
| F.T.T ( 01-03 Feb. 2018) | 01 | 47 | - | 47 | 03 | - | 03 | 50 | - | 50 |
| F.T.T (05-07 Feb 2018) | 01 | 40 | - | 40 | 10 | - | 10 | 50 | - | 50 |
| **Total** | **02** | **87** | **-** | **87** | **13** | **-** | **13** | **100** | **-** | **100** |
| **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 Goat rearing | | | | | | | | | | |
| Animal Nutrition management | | | | | | | | | | |
| Animal disease management | | | | | | | | | | |
| Fisheries nutrition | | | | | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fisheries management | | | | | | | | | | |
| Others(pl. specify) Poultry farming | | | | | | | | | | |
| **Total** | | | | | | | | | | |
| **Home science** | | | | | | | | | | |
| Household nutritional security | | | | | | | | | | |
| Economic empowerment | | | | | | | | | | |
| Drudgery reduction of women | | | | | | | | | | |
| Others (Pl. specify) | | | | | | | | | | |
| **Total** | | | | | | | | | | |
| **Agricultural Extension** | | | | | | | | | | |
| Capacity Building and group dyanamics | | | | | | | | | | |
| **Others (Pl. specify)** | | | | | | | | | | |
| **Total** | | | | | | | | | | |
| **Grand Total** | **02** | **87** | **-** | **87** | **13** | **-** | **13** | **100** | **-** | **100** |

**Name of sponsoring agencies involved – F.T.T. programme funded by U.P. Govt.**

## G. Details of vocational training programmes carried out by KVKs for rural youth

| 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** | | | | | | | | | | |
| Commercial floriculture | - | - | - | - | - | - | - | - | - | - |
| Commercial fruit production (Papaya & banana) | - | - | - | - | - | - | - | - | - | - |
| Commercial spices production | | | | | | | | | | |
| Integrated crop management | - | - | - | - | - | - | - | - | - | - |
| Organic farming | | | | | | | | | | |
| **Total** | | | | | | | | | | |
| **Post harvest technology and value addition** | | | | | | | | | | |
| Value addition | - | - | - | - | - | - | - | - | - | - |
| Others (pl. specify) | - | - | - | - | - | - | - | - | - | - |
| **Total** | | | | | | | | | | |
| **Livestock and fisheries** | | | | | | | | | | |
| Dairy farming | - | - | - | - | - | - | - | - | - | - |
| Composite fish culture | | | | | | | | | | |
| Goat rearing | | | | | | | | | | |
| Piggery | | | | | | | | | | |
| Poultry farming | | | | | | | | | | |
| Others (pl. specify) | | | | | | | | | | |
| **Total** | | | | | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Income generation activities** | | | | | | | | | | |
| Production of organic inputs | 02 | 16 | - | 16 | 04 | - | 04 | 20 | - | 20 |
| Vermicomposting | | | | | | | | | | |
| Prees mud composting | - | - | - | - | - | - | - | - | - | - |
| Production of bio-agents, bio-pesticides, bio-fertilizers etc. | - | - | - | - | - | - | - | - | - | - |
| Repair and maintenance of farm machinery and implements | - | - | - | - | - | - | - | - | - | - |
| Rural Crafts | - | - | - | - | - | - | - | - | - | - |
| Seed production (Rice & Wheat) | 02 | 18 | - | 18 | 02 | - | 02 | 20 | - | 20 |
| Sericulture | - | - | - | - | - | - | - | - | - | - |
| Mushroom cultivation | - | - | - | - | - | - | - | - | - | - |
| Nursery (Planting material production). | - | - | - | - | - | - | - | - | - | - |
| Nursery (Planting material production). of Agroforestry trees | - | - | - | - | - | - | - | - | - | - |
| Tailoring, stitching, embroidery, dying etc. | - | - | - | - | - | - | - | - | - | - |
| Agril. para-workers, para-vet training | - | - | - | - | - | - | - | - | - | - |
| **Others (pl. specify) Bee-keeping** | 02 | 16 | 01 | 17 | 03 | - | 03 | 19 | 01 | 20 |
| **Total** | | | | | | | | | | |
| **Agricultural Extension** | | | | | | | | | | |
| Capacity building and group dynamics | - | - | - | - | - | - | - | - | - | - |
| Others (pl. specify) | - | - | - | - | - | - | - | - | - | - |
| **Total** | **06** | **50** | **-** | **50** | **09** | **-** | **09** | **59** | **01** | **60** |
| **Grand Total** | **06** | **50** | **-** | **50** | **09** | **-** | **09** | **59** | **01** | **60** |

## IV. Extension Programmes

| Activities | No. of programmes | No. of farmers | No. of Extension Personnel | TOTAL |
|---|---|---|---|---|
| Advisory Services | - | - | - | - |
| Diagnostic visits | 05 | 26 | - | 26 |
| Field Day | 05 | 129 | - | 129 |
| Group discussions | - | - | - | - |
| Kisan Ghosthi | - | - | - | - |
| Film Show | 38 | 1560 | - | 1560 |
| Self -help groups | - | - | - | - |
| Kisan Mela | 01 | 805 | 25 | 830 |
| Exhibition | - | - | - | - |
| Scientists' visit to farmers field | 302 | 2350 | - | 2350 |
| Ex-trainees Sammelan | 01 | 20 | - | 20 |
| Farmers' seminar/workshop | 01 | 50 | - | 50 |
| Method Demonstrations | 01 | 10 | - | 10 |
| Celebration of important days | 04 | 335 | - | 335 |
| Special day celebration (World soil health Day) | 01 | 113 | - | 113 |
| Exposure visits | 03 | 160 | - | 160 |
| Others (pl. specify) | | | | |
| Visit of farmers & farmer group to KVK | 483 | 1153 | - | 1153 |
| Sankalp Se Siddhi | 01 | 805 | 25 | 830 |
| Parthenium eradication campaign | 01 | 55 | - | 55 |
| Lecture delivered in other Dept. prog. | 138 | 17475 | 239 | 17714 |
| **Total** | **985** | **25046** | **289** | **25335** |

## A. Details of other extension programmes

| Particulars | Number |
|---|---|
| Electronic Media (CD./DVD) | - |
| Extension Literature | 07 |
| News paper coverage | 40 |
| Popular articles | 03 |
| Radio Talks | 07 |
| TV Talks | 03 |
| Animal health amps (Number of animals treated) | |
| Others (pl. specify) Research Paper | 02 |
| **Total** | **62** |

## B. Mobile Advisory Services

| Name of KVK | Message Type | Type of Messages | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Crop | Lives tock | Weather | Marke-ting | Aware-ness | Other enterp rise | Total |
| Moradabad | Text only | | | | | | | |
| | Voice only | | | | | | | |
| | Voice & Text both | | | | | | | |
| | **Total Messages** | | | | | | | |
| | **Total farmers Benefitted** | | | | | | | |

# 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 |
|---|---|---|---|---|

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

## Production of seeds 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 |
|---|---|---|---|---|---|---|
| Cereals | **Wheat Rabi 2017-18** | **WH - 1105** | | **421.0** | | |
| **Total** | | | | | | |
| Oilseeds | | | | | | |
| Pulses | **Urd Kharif 2017** | **PU - 31** | | **59.60** | 299145 | supplied to NSC Meerut |
| | **Total** | | | **59.60** | | |
| **G.Total** | | | | **480.60** | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Commercial crops | Bajra | | 8141 | 5.0 | | To be auctioned |
| | **Total** | | | **5.0** | | |
| Vegetables | | | | | | |
| | | | | | | |
| Flower crops | | | | | | |
| | | | | | | |
| Spices | | | | | | |
| | | | | | | |
| Fodder crop seeds | | | | | | |
| | | | | | | |
| Fiber crops | | | | | | |
| Forest Species | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Others (Seed Mixture) | | | | | | |
| | | | | | | |
| | | | | | | |
| **Grand Total** | | | | | | |

## A. 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 |
|---|---|---|---|---|---|---|
| Commercial | | | | | | |
| | | | | | | |
| Vegetable seedlings | | | | | | |
| | | | | | | |
| Fruits | | Mango | Dasheri | 60 | | |
| | | Bael | Kagzi | 40 | | |
| | | | | | | |
| Ornamental plants | | | | | | |
| | | | | | | |
| | | | | | | |
| Medicinal and Aromatic | | | | | | |
| | | | | | | |
| Plantation | | | | | | |
| | | | | | | |
| Spices | | | | | | |
| | | | | | | |
| Tuber | | | | | | |
| | | | | | | |
| | | | | | | |
| Fodder crop saplings | | | | | | |
| | | | | | | |
| | | | | | | |
| Forest species | | | | | | |
| | Poplar | G-48 | | 1000 | - | - |
| | | | | | | |
| Others | | | | | | |
| | | | | | | |
| | | | | | | |
| Total | | | | **1100** | | |

## B. Production of Bio-Products

| Bio Products | Name of the bio-product | Quantity Kg | Value (Rs.) | No. of Farmers |
|---|---|---|---|---|
| Bio Fertilisers | | | | |
| | | | | |
| | | | | |
| Bio-pesticide | | | | |
| | | | | |
| | | | | |
| Bio-fungicide | | | | |
| | | | | |
| | | | | |
| Bio Agents | | 25 | | Used in KVK Farm |
| | Trichoderma | | | |
| | | | | |
| Others | | | | |
| | | | | |
| **Total** | | **25** | | |

## C. Production of livestock materials

| Particulars of Live stock | Name of the breed | Number | Value (Rs.) | No. of Farmers |
|---|---|---|---|---|
| **Dairy animals** | | | | |
| Cows | | | | |
| Buffaloes | | | | |
| Calves | | | | |
| Others (Pl. specify) | | | | |
| **Poultry** | | | | |
| Broilers | | | | |
| Layers | | | | |
| Duals (broiler and layer) | | | | |
| Japanese Quail | | | | |
| Turkey | | | | |
| Emu | | | | |
| Ducks | | | | |
| Others (Pl. specify) | | | | |
| **Piggery** | | | | |
| Piglet | | | | |
| Others (Pl.specify) | | | | |
| **Fisheries** | | | | |
| Indian carp | | | | |
| Exotic carp | | | | |
| Others (Pl. specify) | | | | |
| **Total** | | | | |

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

| Samples | No. of Samples | No. of Farmers | No. of Villages | Amount realized (Rs.) |
|---|---|---|---|---|
| Soil | **224** | **224** | **25** | **24200.00** |
| Water | | | | |
| Plant | | | | |
| Manure | | | | |
| Others (pl.specify) | | | | |
| **Total** | **224** | **224** | **25** | **24200.00** |

## VIII. SCIENTIFIC ADVISORY COMMITTEE

| Name of KVK | Number of SACs conducted |
|---|---|
| Krishi Vigyan Kendra, Moradabad<br>(20th Dec. 2017) | 01 |

## IX. NEWSLETTER

| Name of KVK | Number of Copies printed for distribution |
|---|---|
| | |

## X. PUBLICATIONS

| Category | Number |
|---|---|
| Research Paper | 02 |
| Technical bulletins | - |
| Technical reports | 06 |
| Others (pl. specify) Article & Leaflets | 10 |
| **Toatl** | **18** |

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

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

## XII. INTERVENTIONS ON DISASTER MANAGEMENT/UNSEASONAL RAINFALL/HAILSTROM/COLD WAVES ETC

A. Introduction of alternate crops/varieties - NA

| Crops/cultivars | Area (ha) | Number of beneficiaries |
|---|---|---|
| | | |
| | | |

B. Major area coverage under alternate crops/varieties - NA

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

C. Farmers-scientists interaction on livestock management - NA

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

D. Animal health camps organised -NA

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

E. Seed distribution in drought hit states - NA

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

F. Large scale adoption of resource conservation technologies - NA

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

G. 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

A. 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. Agri. & Tech., Meerut** | Capacity buildingof extension scientist | 03 | 06 | 01 |
| Total | | 03 | 06 | 01 |

B. 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 |
|---|---|---|---|
| Training cum workshop for Soil Science & Agronomy scientist | 01 | 02 | 01 |
| Training cum workshop for Soil Science scientist | 01 | 01 | 01 |
| Training cum workshop for Horticulture scientist | 01 | 01 | 01 |
| Training cum workshop for Plant protection scientist | 01 | 01 | 01 |
| Training cum workshop for Agri. Ext. scientist | 01 | 01 | 01 |
| Review meeting of various programmes implemented by KVKs of U.P | 01 | 02 | 01 |
| Total | 06 | 08 | 01 |

## 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*

a) *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*
b) *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*
c) *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

A. TITLE

B. Introduction

KVK intervention
Output
Outcome
Impact

1- **Case Study (Bee keeping)**

**Dr. Arvind Kumar, Dr. Hasan Tanveer & Dr. R.K. Singh**

***Apis mellifera*** –(European Honey bee) with better management becoming popular in farmers for extra income generation with crop production.

**Situation analysis/problem statement-** Mr Prashant yadav village- Roja, post-Bilari, block- Bilari, district- Moradabad. a farmer who is involve in bee keeping. He was earlier involved in bee keeping without better management resulting low yield.

**Plan implement and support** – KVK Moradabad tries to make them aware regarding scientific bee keeping. That start from selecting bee race to honey and wax extraction. This KVK has encouraged the farmers to attend the RY training programe at this KVK and then advised for scientific bee keeping involving *Apis mellifera* European bees, migration, insect and disease control, and artificial diet timely after doing training at KVK.

**Output –**

After doing training at KVK. Mr Prashant yadav adopted the *Apis mellifera* rearing and migration in summer (April-June) and winter (Dec-Jan) and proper insect, disease management by the use of methyl selicylate, sulpher, thymol and artificial diet as per suggestion of KVK scientist for his 50 bee colonies. His traditional honey yield was 11.0 and scientific bee keeping yield was 17.5 qt ( yield increases by 59.09%) and wax yield in traditional method was 10 kg and scientific bee keeping wax yield was 15 kg (50% increased). The economical gain in treatment of per unit 50 bee colonies expenditure, gross income, net return and BCR are recorded Rs 92000, Rs 175000, Rs 83000 and 1.90, respectively.

**Outcome –** Bee keeping is the growing diversified field of Agriculture in the district.KVK Moradabad trained 60 farmers during last three years (2015-16, 2016-17, 2017-18) of 18 villages, most of them are doing bee keeping.
Mr prashant yadav is one them and involved in scientific bee keeping as guided by KVK scientist. This scientific bee keeping has been spread in 25 village of the district and bee keepers are approximately 100. The outcome of this training and advisement and consulting to motivate the farming communities to adopt scientific bee keeping involving migration, insect disease management, artificial diet properly and timely. While in old practice farmers are not adopting migration and proper management of food and insect, disease. So now Mr Prashant yadav is very happy on improvement in their income, livelihood and set forth example for others.

**Impact -** Mr prashant yadav is becoming one of the progressive and aware farmer and bee keeper for others with regards to popularization of scientific bee keeping. The scientific bee keeping helps him for livelihood, empowerment and make him enthusiastic regards honey production. He is one of the progressive farmer after a becoming a part of KVK activities and get their effectiveness for his own development. Mr Prashant yadav is very happy with this improved production and management technology and set forth example for other farmers and bee keepers of the district.

2. **Case Study**

**Dr. Hasan Tanveer , Dr. Arvind Kumar & Dr. R.K. Singh**

**Wheat variety - PBW-550** – Become popular in farmers for their yield and disease resistance in the District- Moradabad.

**Situation analysis/problem statement-** Sri Dharamveer singh, Vill – Ramnagar Ganngpur, Post – Mangupura, Block- Bilari, , district- Moradabad, a farmer who was selected for timely sown wheat variety and their production technology, training/demonstration. He was used older variety of wheat PBW- 343. This variety was susceptible to yellow rust and give low grain yield.

**Plan implement and support** – KVK Moradabad tried to make him aware regarding scientific cultivation of wheat and it was started from land preparation to harvesting. The KVK had encouraged the farmer for soil testing. On the basis of soil testing, advised him for balance dose of fertilizers which was used in variety PBW- 550. The variety was sown on 15-11-2012 with line sowing and half dose of $N_2$, full dose of $P_2 O_5$ and full dose of $K_2 O$ as basal dose application while ¼ part $N_2$ used after first irrigation (crown root stage) and ¼ part used after 3rd irrigation (tillerig stage).

**Output -** Sri Dharamveer singh used the balanced dose of fertilizer N:P:K :: 150:60:40 Kg/ha in wheat crop as per suggestion of KVK scientist for his 0.1 ha land. His yield was 5.54 q/1000 sq mt for var. PBW- 550 while in PBW-343 yield 4.25/1000 sq mt and got 28.23% more yield in demonstration. The economic gain in terms of per 1000sq mt unit expenditure, gross income , net return and BCR were recorded as Rs 2150, Rs 6630, Rs 4480 and 1:3.08, respectively.

**Outcome –** Wheat is a major staple food grain of the district. KVK Moradabad conducted 30 demonstration in 6 village during 2011-12 to 2013-14. The variety PBW- 550 had been spread more than 200 villages of the district and covered 1200 ha area approximately. The impact of this varietal demonstration was motivating farmers comminutes to replace their old varieties having low yield and disease susceptibly.

**Impact -** Sri Dharamveer singh is now become one of the progressive and aware farmer to popularize PBW-550. He is participating in KVK activities and get aware for his own development. Sri Dharamveer singh is happy with his high production and management technology and ascribe as an example for other farmers of the district.

# XIV. AGRICULTURAL TECHNOLOGY INFORMATION CENTRE

## A. Details on ATICs

| S. No | Name of the ATIC | Name of the Host Institute | Name of the ATIC Manager |
|---|---|---|---|
| 1 | KVK Moradabad | SVPUA & T, Meerut | Dr. A.K. Mishra |

## B. Details on Farmer's visit

| S. No | Purpose of visit | Number of farmer's visited |
|---|---|---|
| 01 | Technology Information | 550 |
| 02 | Technology Products | - |
| 03 | Others if any pl. specify | - |

## C. Facilities in the ATIC which are in operation

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

## D. Technology information provide

### D.1. Details on technology information

| 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 | Other specifiy | | | | | | | | | |
| | Advisory services through mobile | 01 | 1525 | 255 | 455 | 350 | 15 | 465 | - | - |

## D.2 . Publications (Print & Electronic media)

| 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) | | | |

## E. Technology Products provided

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

## F. Technology services provided

| S. No | Particulars | Number of farmers benefited |
|---|---|---|
| 01 | Soil and water testing | 224 |
| 02 | Plant diagnostics | 350 |
| 03 | Details about the services to line Departments | Inspection of Agri. & Horticulture Dept. farms |
| 04 | Others if any (please specify) | |

## XV. TECHNOLOGICAL BACKSTOPPING BY DIRECTORATES OF EXTENSION

**States covered:**

**Number of Directorates of Extension:**

### A. 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) |
| | | | | | | | | |
| | | | | | | | | |

### B. Workshops / meetings organized

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

### C. Visits made by DE / Officials in the Directorate to KVKs

| 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 - Visit of Hon'ble VC sir | 01 |

### D. Overseeing of KVKs activities

| S. No. | Particulars | Number of fields visited | Major observations / remarks | Major suggestions given |
|---|---|---|---|---|
| 01 | On Farm Trials | 01 | Appreciated | - |
| 02 | Front Line Demonstration | 01 | Appreciated | Before conducting demonstration Soil testing must be done |
| 03 | Others pl. specify Hon'ble VC sir | 01 | - Standing crop - wheat crop, Elite clone nursery, KVK campus, ATIC, ITC lab, Bio-agent lab, Soil testing lab etc.<br>- Appreciated all activities | - Crop resuduce should not burn<br>- White washing of adminstartive building<br>- More agricultural technology should be on display board |

**E. Publication on Technology inventory**

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

**F. Technological Products provided to KVKs**

| 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 | |

# STATUS OF REVOLVING FUND

| Year | Opening balance as on 1st April | Income during the year | Expenditure during the year | Net balance in hand as on 31st March 2017 of each year |
|---|---|---|---|---|
| 2004 to 2005 | 100000.00 | - | - | 100000.00 |
| 2005 to 2006 | 100000.00 | 5640.17 | 90000.00 | 15640.17 |
| 2006 to 2007 | 15640.17 | 421859.41 | 235655.00 | 201844.58 |
| 2007 to 2008 | 201844.58 | 849384.00 | 392750.00 | 658478.58 |
| 2008 to 2009 | 658478.58 | 719344.00 | 647175.00 | 730647.58 |
| 2009-2010 | 730647.58 | 707686.75 | 714716.00 | 723618.33 |
| 2010-2011 | 723618.33 | 1041445.00 | 1248059.00 | 517004.33 |
| 2011-2012 | 517004.33 | 1536614.00 | 1177472.00 | 876146.33 |
| 2012-2013 | 876146.33 | 655085.00 | 768039.00 | 763192.00 |
| 2013-2014 | 763192.33 | 1483366.00 | 1929540.60* (1129540.60+800000) | 317017.73 |
| 2014-15 | 317017.73 | 1036802.00 | 1050996.50 | 302823.23 |
| 2015-16 | 302823.23 | 776524.00 | 879725.50 | 199621.73 |
| 2016-17 | 199621.73 | 581546.73 | 765570.84 | 15597.86 |
| 2017-18 | 15597.86 | 1693905.00 | 647890.36 | 1061612.50 |

**Sardar Vallabhbhai Patel University of Agriculture & Technology, Meerut- 250 110**

**Budget Utilization Certificate for the year 2017-18 in respect of KVK, MORADABAD**

| SN | | Particulars | Grant Sanctioned (RE) 2017-18 | Grant Received for 2017-18 | Actual Expenditure for 2017-18 | Variation | | Reason for variation |
|---|---|---|---|---|---|---|---|---|
| | | | | | | (+) Saving | (-) Excess | |
| A | | **Recurring Items** | | | | | | |
| 1 | | **Pay & Allowances** | 11549000.00 | 11549000.00 | 11549000.00 | 0.00 | 0.00 | |
| 2 | | **Travelling Allowances** | 120000.00 | 120000.00 | 119659.00 | 341.00 | 0.00 | |
| 3 | | **HRD** | 50000.00 | 50000.00 | 16000.00 | 34000.00 | 0.00 | |
| 4 | | **Contigencies** | | | | | | |
| | a | Stationery, Telephone, postage and other expenditure on office running including printing of reports,Miner repai white washing of buildingsr and krishi unnati mela etc | 565000.00 | 565000.00 | 344746.00 | 220254.00 | 0.00 | |
| | b | POL,Repair of vehicles,tractor and Equipment | 120000.00 | 120000.00 | 114172.00 | 5828.00 | 0.00 | |
| | c | **Vocational Training** | | | | | | |
| | | ( i) Meals/Refreshment for trainees | 80000.00 | 80000.00 | 65916.00 | 14084.00 | 0.00 | |
| | | (ii) Training/Demostration Material | 30000.00 | 30000.00 | 9412.00 | 20588.00 | 0.00 | |
| | d | F.L.D.(Other than oil seed & pulses) | 100000.00 | 100000.00 | 69181.00 | 30819.00 | 0.00 | |
| | e | On Farm Trial | 50000.00 | 50000.00 | 15436.00 | 34564.00 | 0.00 | |
| | f | Training of Extn. Functionaries | 30000.00 | 30000.00 | 12280.00 | 17720.00 | 0.00 | |
| | g | Library (Purchase of Journal, News Paper & Magazines) | 5000.00 | 5000.00 | 3292.00 | 1708.00 | 0.00 | |
| | h | Farmer's Fair | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | j | Misc. Expenditure | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| B | | **Total (A)** | **12699000.00** | **12699000.00** | **12319094.00** | **379906.00** | **0.00** | |
| | | **Non-Recurring items** | | | | | | |
| | a | Equipments | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | b | Works | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | c | Library | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | d | Vehicle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | **Total (B)** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | |
| C | | **Revolving Fund** | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | **Total (C)** | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | **Grand Total (A+B+C)** | **12699000.00** | **12699000.00** | **12319094.00** | **379906.00** | **0.00** | |

**Accountant**

Sanjay Kumar Sharma
OS/Accountant
K.V.K., Bilari, Moradabad

**Prof/ Head**

Dr. Ramkaran Singh
Professor & Head
Krishi Vigyan Kendra
Bilari, Moradabad

**Annexure - 1**

# Details of Training Programme

**(i) ON Campus training for Practicing Farmers and farm Women**

| Subject | Title | Date | Clientele | Duration in days | Venue off/on | No. of Participants | | | Number of SC/ST | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | M | F | Total | M | F | Total |
| **I[st] Quarter** | | | | | | | | | | | |
| Crop Production | i. Ratoon management in late planted sugarcane. | 25 April 17 | PF | 1 | On | 17 | - | 17 | 3 | - | 3 |
| | ii. Nursery management of paddy. | 18 May 17 | PF | 1 | On | 17 | - | 17 | 3 | | 3 |
| | iii. Production tech. of direct seeded rice. | 09 June 17 | PF | 1 | On | 14 | - | 14 | 6 | - | 6 |
| Horticulture | i. Management of Chilli crop in summer season. | 29 May 17 | PF | 1 | On | 19 | - | 19 | 1 | - | 1 |
| Soil Science | i. Method of soil samples collection. | 19 May 17 | PF | 1 | On | 20 | - | 20 | - | - | - |
| | ii. Fertilizer management in paddy nursery. | 08 June 17 | PF | 1 | On | 15 | - | 15 | 5 | - | 5 |
| Plant protection | i. Integrated insect & disease management in mentha crop. | 24 April 17 | PF | 1 | On | 13 | - | 13 | 7 | - | 7 |
| | ii. Integrated insect and Disease management in *Urd* crop. | 12 May 17 | PF | 1 | On | 20 | - | 20 | - | - | - |

| Subject | Title | Date | Clientele | Duration in days | Venue off/on | No. of Participants | | | Number of SC/ST | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | M | F | Total | M | F | Total |
| **II$^{nd}$ Quarter** | | | | | | | | | | | |
| Crop Production | i. Integrated nutrient management in paddy. | 4July17 | PF | 1 | On | 15 | - | 15 | 5 | - | 5 |
| | ii. Weed management in paddy. | 18 July 17 | PF | 1 | On | 18 | - | 18 | 2 | - | 2 |
| Horticulture | Improved varieties of bottle guard & their production technique | 08 Aug 17 | PF | 1 | On | 19 | - | 19 | 1 | - | 1 |
| | Crop regulation in guava | 05 Sept. 17 | PF | 1 | On | 19 | - | 19 | 1 | - | 1 |
| | Vegetable nursery management in rainy season. | 22 Sept. 17 | PF | 1 | On | 18 | - | 18 | 2 | - | 2 |
| Soil Science | i. Use of fertilizers on the bases of soil test in paddy. | 15 July 17 | PF | 1 | On | 17 | - | 17 | 3 | - | 3 |
| | ii. Use of water soluble fertilizer in paddy. | 20 Sept. 17 | PF | 1 | On | 16 | - | 16 | 4 | - | 4 |
| Plant protection | i. Integrated insect management in paddy | 16 Aug.17 | PF | 1 | On | 20 | - | 20 | - | - | - |
| | ii. Integrated disease management in paddy | 15 Sept.17 | PF | 1 | On | 16 | - | 16 | 4 | - | 4 |
| Plant breeding | i. Improved varieties of basmati rice & their production technique | 3 July 17 | PF | 1 | On | 20 | - | 20 | - | - | - |
| | ii. Improved Varieties of rape seeds and mustard, and their production technique. | 13 Sept.17 | PF | 1 | On | 20 | - | 20 | - | - | - |
| Agri. Extension | i. Role of information tech. for development of social economic of rural farmers. | 26Sept. 2017 | PF | 1 | On | 15 | - | 15 | 5 | - | 5 |

| Subject | Title | Date | Clientele | Duration in days | Venue off/on | No. of Participants | | | Number of SC/ST | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | M | F | Total | M | F | Total |
| **IIIrd Quarter** | | | | | | | | | | | |
| Crop Production | i. Use of sulphur & thinning practice in toria & Mustard. | 08Sept. 17 | PF | 1 | On | 9 | - | 9 | 11 | - | 11 |
| | ii. Conserve & decompose the crop residual for enriching organic carbon in soil. | 04 Oct. 17 | PF | 1 | On | 18 | - | 18 | 2 | - | 2 |
| Horticulture | i. Agromin foliar application in vegetables. | 25 Oct. 17 | PF | 1 | On | 19 | - | 19 | 1 | - | 1 |
| Soil science | i. Use of bio-fertilizers in Rabi crops. | 22 Oct. 17 | PF | 1 | On | 16 | - | 16 | 4 | - | 4 |
| | ii. Foliar spray of zinc and urea in wheat. | 22 Nov. 17 | PF | 1 | On | 17 | - | 17 | 3 | - | 3 |
| Plant protection | i. Integrated pest management technique in mustard crop. | 15 Nov.17 | PF | 1 | On | 14 | - | 14 | 6 | - | 6 |
| Plant Breeding | i. Improved varieties of wheat and their production technique under timely sown condition. | 10 Oct.17 | PF | 1 | On | 20 | - | 20 | - | - | - |
| | ii. Improved Varieties of late sown wheat and their production technique | 20 Nov.17 | PF | 1 | On | 15 | - | 15 | 5 | - | 5 |
| Agri. Extension | i. Different policies of U.P. Govt. for Agriculture development. | 26 Oct. 2017 | PF | 1 | On | 19 | - | 19 | 1 | - | 1 |

| Subject | Title | Date | Clientele | Duration in days | Venue off/on | No. of Participants | | | Number of SC/ST | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | M | F | Total | M | F | Total |
| **IVth Quarter** | | | | | | | | | | | |
| Crop Production | i. Integrated crop management in mentha crop | 21 Jan. 18 | PF | 1 | On | 18 | - | 18 | 2 | - | 2 |
| | ii. Integrated crop management in sugarcane. | 21 Feb. 18 | PF | 1 | On | 2 | - | 2 | 18 | - | 18 |
| | iii. Conserve & decompose the crop residual for enriching organic carbon in soil. | 20 March 18 | PF | 1 | On | 2 | - | 2 | 18 | - | 18 |
| Soil science | i. Advantage of bio-fertilizers in S.cane. | 17 Feb 18 | PF | 1 | On | 16 | - | 16 | 4 | - | 4 |
| | ii. Use of micro-nutrient management in S.cane. | 20 Feb. 18 | PF | 1 | On | 15 | - | 15 | 5 | - | 5 |
| Plant protection | i Integrated pest management technique in *rabi* pulses. | 12 Jan. 18 | PF | 1 | On | 16 | - | 16 | 4 | - | 4 |
| | ii. Integrated disease management in sugarcane. | 14 Mar. 18 | PF | 1 | On | 16 | - | 16 | 4 | - | 4 |
| Plant breeding | i. Improved varieties of mentha and their production technique. | 18 Jan.18 | PF | 1 | On | 12 | - | 12 | 8 | - | 8 |
| | ii. Improved varieties of maize and their production technique. | 16 Feb. 18 | PF | 1 | On | 18 | - | 18 | 2 | - | 2 |

## (ii) OFF Campus training for Practicing Farmers and Farm Women

| Subject | Title | Date | Clientele | Duration in days | Venue off/ on | No. of Participants | | | Number of SC/ST | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | M | F | Total | M | F | Total |
| **I[st] Quarter** | | | | | | | | | | | |
| Crop Production | i. Production technology of late planted sugarcane | 17 May 17 | PF | 1 | Khanpur | 19 | - | 19 | 1 | - | 1 |
| | ii. Production technology of basmati. | 30 May17 | PF | 1 | Karsara | 4 | - | 4 | 16 | - | 16 |
| Agro-forestry | i. Management of Agro-forestry tress in summer season. | 27 May. 2017 | PF | 1 | Fathehpur Natha | 20 | - | 20 | - | - | - |
| Soil Science | i. Importance of soil testing in Agri. Production. | 25April 17 | PF | 1 | Khanpur | 20 | - | 20 | - | - | - |
| | ii. Method of soil sample collection | 23 May 17 | PF | 1 | Sihari | 20 | - | 20 | - | - | - |
| | iii. Fertilizers management in paddy nursery. | 6 June 17 | PF | 1 | Ladaa | 20 | - | 20 | - | - | - |
| | iv. Micro nutrients management in paddy | 14 June 17 | PF | 1 | Abupura Khurd Fathehpur Natha | 20 | - | 20 | - | - | - |
| Plant protection | i. Precaution during the use of pesticides and selection of pesticides and technique of solution making. | 26 April 2017 | PF | 1 | Fathehpur Natha | 20 | - | 20 | - | - | - |
| | ii Integrated insect management in sugarcane | 19 May 17 | PF | 1 | Sihari Ladda | 20 | - | 20 | - | - | - |
| Agri. Ext. | i. Importance of green mannuring | 27 June 2017 | PF | 1 | Hamjapur | 20 | - | 20 | - | - | - |

| Subject | Title | Date | Clientele | Duration in days | Venue off/on | No. of Participants | | | Number of SC/ST | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | M | F | Total | M | F | Total |
| **II$^{nd}$ Quarter** | | | | | | | | | | | |
| Crop Production | i. Production technology in Urd. | 27 July. 17 | PF | 1 | Bagwantpur | 15 | - | 15 | 5 | - | 5 |
| | ii. Production technology of intercropping in autumn Sugarcane | 16 Sept. 17 | PF | 1 | Khanpur | 15 | - | 15 | 5 | - | 5 |
| | iii. Integrated crop management in potato. | 4Oct. 17 | PF | 1 | Khanpur | 18 | - | 18 | 2 | - | 2 |
| | iv. Use of Sulphur & thinning practice in mustard | 28 Sept. 17 | PF | 1 | Karsara | 2 | - | 2 | 18 | - | 18 |
| Horticulture | i.. Improved varieties of sponge guard & their production technique. | 27 July. 17 | PF | 1 | Off | 20 | - | 20 | - | - | - |
| Soil Science | i. Use of fertilizers on the bases of soil test in paddy. | 14 July 17 | PF | 1 | Sihali Ladaa | 20 | - | 20 | - | - | - |
| | ii. Advantage of bio fertilizers | 31 Aug. 17 | PF | 1 | Bagpura | 20 | - | 20 | - | - | - |
| | iii. Method of soil sample collection | 21 Sept. 17 | PF | 1 | Sihali Ladaa | 19 | - | 19 | 1 | - | 1 |
| Plant protection | i. Management of termite in *kharif* crops. | 14 July. 17 | PF | 1 | Khanpur | 20 | - | 20 | - | - | - |
| | ii. Disease control in urd crop. | 20 July 17 | PF | 1 | Sihari Ladda | 20 | - | 20 | - | - | - |
| | iii. Management of hairy caterpillar in urd . | 22 Aug. 17 | PF | 1 | Fathehpur Natha | 20 | - | 20 | - | - | - |
| Plant breeding | i. Sucker production technique in mentha | 19 July.17 | PF | 1 | Fattepur Nimari | 17 | - | 17 | 3 | - | 3 |
| | ii. Improved varieties of rape seed & mustard and their production technique | 21 Aug. 17 | PF | 1 | Saharia | 20 | - | 20 | - | - | - |
| | iii. New varieties of sugarcane and their production technique | 23 Sept. 17 | PF | 1 | Jaitpur | 19 | - | 19 | 1 | - | 1 |

| Subject | Title | Date | Clientele | Duration in days | Venue off/on | No. of Participants | | | Number of SC/ST | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | M | F | Total | M | F | Total |
| **IIIrd Quarter** | | | | | | | | | | | |
| Crop Production | i. ICM in lentil. | 27 Oct. 17 | PF | 1 | Khata | 7 | - | 7 | 13 | - | 13 |
| | ii. Integrated Crop management in timely sown wheat | 31 Oct. 17 | PF | 1 | Mentara | 18 | - | 18 | 2 | - | 2 |
| | iii. Weed management in wheat | 14 Nov. 17 | PF | 1 | Khanpur | 12 | - | 12 | 8 | - | 8 |
| | iv. Fertilizer & irrigation management in Late sown wheat | 04 Dec. 17 | PF | 1 | Off | 18 | - | 18 | 2 | - | 2 |
| Horticulture | i. Integrated crop management in potato. | 17 Oct. 17 | PF | 1 | Off | 8 | - | 8 | 12 | - | 12 |
| | i. Improved varieties of onion and their production technique. | 26 Oct. 17 | PF | 1 | Off | 14 | - | 14 | 6 | - | 6 |
| | ii. Technical management of cauliflower prod. | 19 Dec. 17 | PF | 1 | Off | 6 | - | 6 | 14 | - | 14 |
| Agro-forestry | i. Inter cropping technique of wheat cultivation with poplar plantation. | 10 Oct. 2017 | PF | 1 | Khanpur | 17 | - | 17 | 3 | - | 3 |
| Soil Science | i. Method of soil sample collection. | 30 Oct. 17 | PF | 1 | Fathehpur Natha | 20 | - | 20 | - | - | - |
| | ii. Use of water soluble fertilizer in wheat. | 16 Nov. 17 | PF | 1 | Khanpur | 13 | - | 13 | 7 | - | 7 |
| | iii. Foliar spray of zinc and urea in wheat | 24 Nov. 17 | PF | 1 | Safilpur | 17 | - | 17 | 3 | - | 3 |
| Plant protection | i. Integrated insect management in Rabi pulse crops. | 21 Nov. 17 | PF | 1 | Naglia Jat | 15 | - | 15 | 5 | - | 5 |
| | ii. Management of early and late blight disease control in potato | 15 Dec.17 | PF | 1 | Karsara | - | - | - | 20 | - | 20 |
| Plant breeding | i. Improved varieties of wheat and their production technique | 26 Oct. 17 | PF | 1 | Sihari ladda | 20 | - | 20 | - | - | - |
| | ii. Varieties of wheat under late sown condition and their production technique | 21 Nov.17 | PF | 1 | Nagalia Jat | 18 | - | 18 | 2 | - | 2 |

| Subject | Title | Date | Clientele | Duration in days | Venue off/on | No. of Participants | | | Number of SC/ST | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | M | F | Total | M | F | Total |
| **IV$^{th}$ Quarter** | | | | | | | | | | | |
| Crop Production | i. Integrated nutrient management of ratoon sugarcane crop | 16 Jan.18 | PF | 1 | Khanpur | 12 | - | 12 | 8 | - | 8 |
| | ii. Production tech. of inter crop in spring sugar cane. | 26 Feb. 18 | PF | 1 | khata | 11 | - | 11 | 9 | - | 9 |
| Horticulture | i. Cultivation of tomato on ***Staking*** system. | 30 Jan 2018 | PF | 1 | Off | 19 | - | 19 | 1 | - | 1 |
| Agro-forestry | i. Inter cropping of sugar cane with poplar. | 04 March. 2018 | PF | 1 | Off | 18 | - | 18 | 2 | - | 2 |
| Soil Science | i. Use of water soluble fertilizers in S.cane. | 24Jan.2018 | PF | 1 | Safilpur | 19 | - | 19 | 1 | - | 1 |
| | ii. Foliar spray of zinc and urea in wheat | 25 Jan. 18 | PF | 1 | Gwarkhera | 18 | - | 18 | 2 | - | 2 |
| | iii. Use of water soluble fertilizer in standing crop of wheat. | 27Jan.2018 | PF | 1 | Sihali Ladda | 20 | - | 20 | 1 | - | 1 |
| | iv. Advantage of micro-nutrient management in Sugarcane. | 12 March 2018 | PF | | Dharampur Kala | 20 | - | 20 | - | - | - |
| Plant protection | i. Integrated Pest Management technique in mentha crop. | 19 Jan. 18 | PF | 1 | Karsara | 19 | - | 19 | 1 | - | 1 |
| | ii. Technique and importance of Seed treatment in *zaid* crops | 08 Feb. 2018 | PF | 1 | Fathehpur Natha | 20 | - | 20 | - | - | - |
| Plant breeding | i. Improved varieties of mentha and their production technique | 25 Jan. 2018 | PF | 1 | Kubri manak | 20 | - | 20 | - | - | - |

## ON Campus/ OFF Campus : Vocational training programme for Rural Youth (ON/OFF Campus)

| Subject | Title | Date | Thrust Area | Clientele | Duration in days | Venue off/on | No. of Participants | | | Number of SC/ST | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | M | F | Total | M | F | Total |
| **I$^{st}$ Quarter** | | | | | | | | | | | | |
| Crop production | Production tech. of Blue Green Elge & Azola. | 03-08 June 17 | Promotion of organic manure | RY | 6 | On/Off | 8 | - | 8 | 2 | - | 2 |
| Plant breeding | Seed production technique of paddy | 22-24 27-29 June17 | Promoting seed production technique | RY | 6 | On/Off | 10 | - | 10 | - | - | - |
| **IInd Quarter** | | | | | | | | | | | | |
| Crop production | Production tech. of Blue Green Elge & Azola. | 13-18 Aug. 17 | Promotion of organic manure | RY | 6 | On/Off | 8 | - | 8 | 2 | - | 2 |
| **III$^{rd}$ Quarter** | | | | | | | | | | | | |
| Crop production | Seed production technique of Mustard | 20-26 Oct. 17 | Promoting seed production technique | RY | 6 | On/Off | 8 | - | 8 | 2 | - | 2 |
| Soil Science | Vermi-compost production | 12-17 Oct. 17 | Promotion of organic manure | RY | 6 | On/Off | 8 | - | 8 | 2 | - | 2 |
| Plant Protection | Technique of bee keeping | 25-27 & 30-31 Oct.17 | Promoting honey production | RY | 6 | On/Off | 8 | 1 | 9 | 1 | - | 1 |
| Plant Breeding | Wheat seed production technique | 1-2 & 6-9 Oct.17 | Promoting Wheat seed Production | RY | 6 | On/Off | 8 | - | 8 | 2 | - | 2 |
| **IV$^{th}$ Quarter** | | | | | | | | | | | | |
| Crop production | Seed production technique of S.cane | 20-26 Feb. 18 | Promoting seed production technique | RY | 6 | On/Off | 8 | - | 8 | 2 | - | 2 |
| Plant protection | Technique of bee keeping | 23-28 Feb 18 | Promotion of honey production | RY | 6 | On/Off | 8 | - | 8 | 2 | - | 2 |

## (iii) Training Programme for Extension Functionaries

| Subject | Title | Date | Clientele | Duration in days | Venue off/on | No. of Participants | | | Number of SC/ST | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | M | F | Total | M | F | Total |
| **I$^{st}$ Quarter** | | | | | | | | | | | |
| Crop production | Production technology of DSR in paddy | 03 June 2017 | EF | 1 | On/Off | 8 | - | 8 | 2 | - | 2 |
| Soil Science | Importance of soil testing in Agriculture Prod. | 26 April 2017 | EF | 1 | On/Off | 8 | - | 8 | 2 | - | 2 |
| | Importance of green manure in paddy | 24 May 2017 | EF | 1 | On/Off | 8 | - | 8 | 2 | - | 2 |
| | Micro- nutrient management in paddy | 27 June 2017 | EF | 1 | On/Off | 9 | - | 9 | 1 | - | 1 |
| Plant protection | Technique of storage of food grains. | 26 May 2017 | EF | 1 | On/Off | 7 | - | 7 | 3 | - | 3 |
| | Management of Top borer in S.cane | 27 June 2017 | EF | 1 | On/Off | 7 | - | 7 | 3 | - | 3 |
| Agri. Extension | Importance of Pradhan mantri Fasal Beema Yojna | 27June 2017 | EF | 1 | On/Off | 8 | - | 8 | 2 | - | 2 |
| **II$^{nd}$ quarter** | | | | | | | | | | | |
| Crop Production | Role & importance of water soluble fertilizer on crop production | 11 Aug 2017 | EF | 1 | On/Off | 7 | - | 7 | 3 | - | 3 |
| Soil Science | Use of Vermi & Nedap compost for soil health | 19 Sept. 2017 | EF | 1 | On/Off | 7 | - | 7 | 3 | - | 3 |
| | Use of micro- nutrients in Paddy. | 28 Sept. 2017 | EF | 1 | On/Off | 7 | - | 7 | 3 | - | 3 |
| Plant protection | Integrated pest management technique in *kharif* crops | 25 Sept. 2017 | EF | 1 | On/Off | 7 | - | 7 | 3 | - | 3 |
| | Control of Mosaic disease in Urd crop. | 27 July 2017 | EF | 1 | On/Off | 9 | - | 9 | 1 | - | 1 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **III$^{rd}$ Quarter** | | | | | | | | | | | |
| Crop Production | Production tech. in late sown wheat | 11 Nov. 2017 | EF | 1 | On/Off | 7 | - | 7 | 3 | - | 3 |
| Soil Science | Use of water soluble fertilizers in wheat. | 10 Nov. 2017 | EF | 1 | On/Off | 8 | - | 8 | 2 | - | 2 |
| Plant protection | Integrated pest management in *rabi* crops and vegetables | 26 Oct. 2017 | EF | 1 | On/Off | 8 | - | 8 | 2 | - | 2 |
| | Technique of selection & use of pesticides. | 7 Dec. 2017 | EF | 1 | On/Off | 5 | - | 5 | 5 | - | 5 |
| | Insect & Disease management in rabi pulse crops | 21 Dec. 2017 | EF | 1 | On/Off | 7 | - | 7 | 3 | - | 3 |
| Plant breeding | Improved variety of wheat and their production technique | 30 Nov. 2017 | EF | 1 | On/Off | 8 | - | 8 | 2 | - | 2 |
| **IV$^{th}$ Quarter** | | | | | | | | | | | |
| Crop production | Production technology of Mentha with associate of wheat crop. | 10 Feb 2018 | EF | 1 | On/Off | 8 | - | 8 | 2 | - | 2 |
| Soil Science | Foliar spray of Zinc and Urea in Wheat. | 31 Jan. 2018 | EF | 1 | On/Off | 8 | - | 8 | 2 | - | 2 |
| Soil Science | Use of sulphur in Sugarcane. | 26 Feb 2018 | EF | 1 | On/Off | 8 | - | 8 | 2 | - | 2 |
| Soil Science | Advantage of Bio-fertilizers in S.cane and its application. | 13 Marc. 2018 | EF | 1 | On/Off | 8 | - | 8 | 2 | - | 2 |
| Plant Protection | Integrated pest management technique in Zaid crops. | 24 Jan. 2018 | EF | 1 | On/Off | 7 | - | 7 | 3 | - | 3 |