# PROGRESS REPORT

( APRIL 2017 - March 2018)



# KRISHI VIGYAN KENDRA PILIBHIT

Presented in Annual Zonal Workshop of KVK's at SVPUA&T, Meerut (23-24 August, 2018)





DIRECTORATE OF EXTENSION
SARDAR VALLABHBHAI PATEL UNIVERSITY OF AGRI. & TECH.
MODIPURAM, MEERUT – 250110 (U.P.)

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# 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               | e No. of |      | Female | Total        |
|-------------------------|----------|------|--------|--------------|
|                         | Courses  |      |        | participants |
| Farmers & farm women    | 94       | 1345 | 535    | 1880         |
| Rural youths            | 09       | 69   | 21     | 90           |
| Extension functionaries | 36       | 600  | 120    | 720          |
| Sponsored Training      | 105      | 7406 | 817    | 845          |
| Vocational Training     | 09       | 69   | 21     | 90           |
| Total                   | 253      | 9489 | 1514   | 3625         |

### 2. Frontline demonstrations

| Enterprise            | No. of Farmers | Area (ha) | Units/Animals |
|-----------------------|----------------|-----------|---------------|
| Pulses                | 13             | 5.0       |               |
| Cereals               | 90             | 37.0      |               |
| Vegetables            | 05             | 0.5       |               |
| Other crops           | 10             | 4.0       |               |
| Hybrid crops          | 10             | 5.0       |               |
| Total                 | 138            | 51.5      |               |
| Livestock & Fisheries |                |           |               |
| Other enterprises     | 32             | 15.0      |               |
| Total                 | 32             | 15.0      |               |
| Grand Total           | 160            | 66.5      |               |

## **Cluster Frontline Demonstrations**

| Enterprise | No. of Farmers | Area (ha) |
|------------|----------------|-----------|
| Oilseeds   | 23             | 10.0      |

#### 3. Technology Assessment & Refinement

| Category            | No. of Technology Assessed & Refined | No. of Trials | No. of Farmers |
|---------------------|--------------------------------------|---------------|----------------|
| Technology Assessed |                                      |               |                |
| Crops               | 12                                   | 6             | 30             |
| Livestock           |                                      |               |                |
| Various enterprises | 2                                    | 2             | 10             |
| Total               | 14                                   | 8             | 40             |
| Technology Refined  |                                      |               |                |
| Crops               |                                      |               |                |
| Livestock           |                                      |               |                |
| Various enterprises |                                      |               |                |
| Total               |                                      |               |                |

| <b>Grand Total</b> | 11 | 7 | 35 |
|--------------------|----|---|----|

#### 4. Extension Programmes

| Category                   | No. of Programmes | Total Participants |
|----------------------------|-------------------|--------------------|
| Extension activities       | 1834              | 10207              |
| Other extension activities | 126               |                    |
| Total                      | 1960              | 10207              |

## 5. Mobile Advisory Services

|                |                             | Type of Messages |               |         |                |                    |                         |       |
|----------------|-----------------------------|------------------|---------------|---------|----------------|--------------------|-------------------------|-------|
| Name of<br>KVK | Message Type                | Crop             | Livestoc<br>k | Weather | Marke<br>-ting | Awar<br>e-<br>ness | Other<br>enterpri<br>se | Total |
|                | Text only                   | 23               |               | 3       | 2              | 4                  | 5                       | 37    |
| Pilibhit       | Voice only                  | 32               |               | 2       | 1              |                    |                         | 35    |
|                | Voice & Text both           |                  |               |         |                |                    |                         |       |
|                | Total Messages              | 55               |               | 5       | 3              | 4                  | 5                       | 72    |
|                | Total farmers<br>Benefitted | 2567             |               | 245     | 134            | 187                | 247                     | 813   |

## 6. Seed & Planting Material Production

|                            | Quintal/Number | Value Rs. |
|----------------------------|----------------|-----------|
| Seed (q)                   | 728.00         |           |
| Planting material (No.)    | 750            |           |
| Bio-Products (kg)          | 55             |           |
| Livestock Production (No.) |                |           |
| Fishery production (No.)   |                |           |

## 7. Soil, water & plant Analysis

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

#### 8. HRD and Publications

| Sr. No. | Category    | Number |
|---------|-------------|--------|
| 1       | Workshops   | 01     |
| 2       | Conferences | 02     |
| 3       | Meetings    | 05     |

| 4  | Trainings for KVK officials | 02 |
|----|-----------------------------|----|
| 5  | Visits of KVK officials     | 02 |
| 6  | Book published              |    |
| 7  | Training Manual             |    |
| 8  | Book chapters               | 01 |
| 9  | Research papers             | 04 |
| 10 | Lead papers                 | 01 |
| 11 | Seminar papers              | 04 |
| 12 | Extension folder            | 04 |
| 13 | Proceedings                 | 05 |
| 14 | Award & recognition         |    |
| 15 | On going research projects  |    |

#### **DETAIL REPORT OF APR-2017-18**

## 1. GENERAL INFORMATION ABOUT THE KVK

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

| Address  | Telephone |     | E mail                |
|--|-----------|-----|-----------------------|
|  | Office    | Fax |                       |
| KRISHI VIGYAN KENDRA, TANDA VIJAISI,<br>NYORIA, PILIBHIT – 262 305 (U.P.) INDIA. |           |     | kvkpilibhit@gmail.com |

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

| 1.2 . Name and address of host organization with phone, tax and e-mail |           |         |                            |  |  |  |
|--|-----------|---------|----------------------------|--|--|--|
| Address  | Telephone |         | E mail                     |  |  |  |
|  | Office    | Fax     |                            |  |  |  |
| SARDAR VALLABHBHAI PATEL   | (0121)    | (0121)  | svbpuniversitymeerut.ac.in |  |  |  |
| UNIVERSITY , OF AGRICULTURE &  | 2411505   | 2411503 |                            |  |  |  |
| TECHNOLOGY, MEERUT – 250110 (U.P.)                                     |           |         |                            |  |  |  |
| INDIA.   |           |         |                            |  |  |  |

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

| Address         | Telephone |             | E mail                |
|-----------------|-----------|-------------|-----------------------|
|                 | Office    | Resi        |                       |
| Dr. Faiz Mohsin |           | 09719244864 | kvkpilibhit@gmail.com |

**1.4. Year of sanction**: 2000

## 1.5. Staff Position (as on 30<sup>th</sup> March, 2018)

| SI.<br>No. | Sanctioned post                | Name of the incumbent            | Designation                       | Discipline        | Pay Scale/<br>Present basic<br>(Rs.) | Date of<br>joining<br>(In Univ/ In<br>KVK) | Perman-<br>ent<br>/Temp-<br>orary | Category<br>(SC/ST/<br>OBC/<br>Others) | Mobile no. | Age | Email id                           |
|------------|--------------------------------|----------------------------------|-----------------------------------|-------------------|--------------------------------------|--|-----------------------------------|--|------------|-----|------------------------------------|
| 1          | Subject Matter<br>Specialist   | Dr. Faiz<br>Mohsin               | Professor                         | Agro-<br>forestry | 37400-67000<br>(60600.00)            | 05.07.96<br>05.11.05                       | Р                                 | General                                | 9719244864 | 52  | drfaizmohsin<br>@gmail.com         |
| 2          | Subject Matter<br>Specialist   | Dr. R. C.<br>Sethi               | Associate<br>Director             | Home<br>Science   | 37400-67000<br>(64130.00)            | 19.08.95<br>01.06.13                       | Р                                 | General                                | 9412853202 | 54  | rcsethi1964<br>@rediffmail.com     |
| 3          | Subject Matter<br>Specialist   | Dr. Nalin<br>Chandra<br>Tripathi | Associate<br>Director             | Agronomy          | 37400-67000<br>(57110.00)            | 01.06.98<br>11.07.08                       | Р                                 | General                                | 9450417136 | 52  | nalinchandratripathi<br>@gmail.com |
| 4          | Subject Matter<br>Specialist   | Dr.<br>Shailendra<br>Singh Dhaka | Assistant<br>Professor            | Entomology        | 15600-39100<br>(38710.00)            | 10.12.03<br>21.08.11                       | Р                                 | OBC                                    | 9412114409 | 41  | chssdhaka<br>@gmail.com            |
| 5          | Farm Manager                   | Dr. Mukesh<br>Kumar              | Programme<br>Assistant            |                   | 9300-34800<br>(46200.00)             | 24.07.08<br>24.07.08                       | Р                                 | General                                | 9415587611 | 45  | dr.mk.kr@gmail.com                 |
| 6          | Computer<br>Programmer         | Sh. Praveen<br>Kumar<br>Bhaskar  | Programme<br>Assistant            |                   | 9300-34800<br>(46200.00)             | 27.02.08<br>27.02.08                       | Р                                 | SC                                     | 7351773929 | 38  | praveenkumar23<br>@gmail.com       |
| 7          | Program<br>Assistant           | Km.<br>Akanksha<br>Chauhan       | Lab<br>Technician                 |                   | 9300-34800<br>(36500.00)             | 10.04.16<br>10.04.16                       | Р                                 | OBC                                    | 9758893880 | 26  | aku12akansha1<br>@gmail.com        |
| 8          | Accountant /<br>Superintendent | Sh. G. D.<br>Deorari             | Office<br>Supdtt./<br>Accountant  |                   | 9300-34800<br>(58600.00)             | 01.12.95<br>30.07.14                       | Р                                 | General                                | 9412362334 | 49  | deorari123gd<br>@gmail.com         |
| 9          | Stenographer                   | Sh. Sudesh<br>Kumar              | Jr.steno/<br>Computer<br>Operator |                   | 5200-20200<br>(38600.00)             | 15.12.03<br>15.12.03                       | Р                                 | SC                                     | 9457273887 | 47  | anandsk121<br>@gmail.com           |
| 10         | Driver                         | Sh. Satendra<br>Singh            | Driver cum<br>Mechanic            |                   | 5200-20200<br>(27600.00)             | 30.07.07<br>30.07.07                       | Р                                 | General                                | 9456959660 | 37  |                                    |
| 11         | Supporting staff               | Sh. Jai Ram                      | Messenger                         |                   | 4440-7440<br>(32300.00)              | 09.01.96<br>07.06.06                       | Р                                 | General                                | 7830228517 | 58  |                                    |
| 12         | Supporting staff               | Sh. Mool<br>Kumar                | Office<br>Attendant               |                   | 4440-7440<br>(32300.00)              | 28.12.95<br>16.02.02                       | Р                                 | General                                | 9458083795 | 45  |                                    |

1.6. Total land with KVK (in ha)

| S.  |                           |      |  |  |  |
|-----|---------------------------|------|--|--|--|
| No. |                           |      |  |  |  |
| 1.  | Under Buildings           | 2.00 |  |  |  |
| 2.  | Under Demonstration Units |      |  |  |  |
| 3.  | Under Crops               | 8.85 |  |  |  |
| 4.  | 4. Orchard/Agro-forestry  |      |  |  |  |
|     | Total Land 12.00          |      |  |  |  |

## 1.7. Infrastructural Development:

## A) Buildings

| s      |                              | Cours |                        |                          | St                          | age              |                          |                         |
|--------|------------------------------|-------|------------------------|--------------------------|-----------------------------|------------------|--------------------------|-------------------------|
| 3      | Name of                      | Sourc | Complete               |                          | Incomplete                  |                  |                          |                         |
| N<br>o | Name of e of building fundin |       | Comple<br>tion<br>Date | Plinth<br>area<br>(Sq.m) | Expendit<br>ure (lac<br>Rs) | Starting<br>Date | Plinth<br>area<br>(Sq.m) | Status of construc tion |
| 1      | Administrative Building      | ICAR  | 2006                   | 500                      | 32.00                       |                  |                          |                         |
| 2      | Farmers Hostel               | ICAR  | 2007                   | 300                      | 7.92                        |                  |                          |                         |
| 3      | Staff Quarters (6)           | ICAR  | 2007                   | 400                      | 7.72                        |                  |                          |                         |
| 4      | Demonstration<br>Units (2)   | ICAR  | 2007                   | 160                      |                             |                  |                          |                         |
| 5      | Fencing                      | ICAR  | 2009                   | 1000RM                   | 4.72                        |                  |                          |                         |
| 6      | Tube Well                    | ICAR  | June07                 |                          | 2.25                        |                  |                          |                         |
| 7      | Threshing floor              | ICAR  | June07                 | 300                      | 2.15                        |                  |                          |                         |
| 8      | Farm godown                  | ICAR  | June07                 | 60                       | 3.50                        |                  |                          |                         |
| 9      | Irrigation<br>Channel        | ICAR  | 2007                   | 800                      | 4.00                        |                  |                          |                         |

## B) Vehicles

| Type of vehicle          | Year of purchase | Cost (Rs.)  | Total kms.<br>Run | Present status |
|--------------------------|------------------|-------------|-------------------|----------------|
| 1 Splendor<br>Motorcycle | 03/06/05         | 40,256.00   | 38000             | Fair           |
| 1 Jeep (Marshal)         | 30/06/04         | 4,00,364.00 | 123270            | Not Good       |
| 1 Sonalika Tractor       | 21/12/04         | 3,34,350.00 |                   | Good           |
| 1 Rajdoot<br>Motorcycle  | 13/07/00         | Transferred |                   | Fair           |

## C) Equipments & AV aids

| Name of the equipment |                            | Year of purchase | Cost (Rs.) | Present status |
|-----------------------|----------------------------|------------------|------------|----------------|
| Diesel Pump           | 10 HP Kirloskar            | 03.01.2001       | 22481.00   | Good           |
| Steel Almirah         | 37x19x78 with Machine Lock | 22.03.2002       | 2856.00    | Good           |
| Steel Almirah         | 1980x860x480               | 13.10.2004       | 6555.00    | Good           |
| Steel Almirah         | 1980x860x480               | 31.03.2006       | 3410.00    | Good           |

|  |            | T           |      |
|--|------------|-------------|------|
| 1980x860x480                                   | 31.03.2006 | 3410.00     | Good |
| 1280x760x430                                   | 31.03.2006 | 4700.00     | Good |
| Drum   | 14.12.2000 | 470.00      | Good |
| Harrow 7x7 disc Bearing beam trailing type     | 31.01.2005 | 20300.00    | Good |
| Cultivator 1 Tyne spring loaded                | 31.01.2005 | 10900.00    | Good |
| Leveller 7' Size                               | 31.01.2005 | 5200.00     | Good |
| Board 6x4                                      | 21.11.2002 | 1980.00     | Good |
| Board 10x3                                     | 19.03.2004 | 885.00      | Good |
| Pin-up-board 3x4                               | 31.03.2004 | 11000.00    | Good |
| Stand Delux                                    | 31.03.2004 | 10400.00    | Good |
| Tractor Trolly 3 ton 2 wheel                   | 31.01.2005 | 56100.00    | Good |
| Ridger Maker Disc Type                         | 31.01.2005 | 7000.00     | Good |
| Motorcycle Rajdoot                             | 13.07.2000 | Transferred | Good |
| Motorcycle Hero Honda                          | 03.06.2005 | 40256.00    | Good |
| Chair Wooden+foam                              | 19.03.2001 | 6750.00     | Good |
| Office Chair Cushioned                         | 06.03.2003 | 1700.00     | Good |
| Chair Armed Wooden                             | 20.03.2004 | 4947.00     | Good |
| Office Chair Dunlop Cushion                    | 20.03.2004 | 5400.00     | Good |
| Office Chair Armed                             | 30.03.2004 | 550.00      | Good |
| Chair Wooden                                   | 30.12.2004 | 3282.00     | Good |
| Office Chair Armed seat Back                   | 31.03.2006 | 27830.00    | Good |
| Computer Chair Armless                         | 31.03.2006 | 1510.00     | Good |
| Officer Chair                                  | 6.03.2003  | 1700.00     | Good |
| Bench Armed                                    | 31.03.2006 | 2600.00     | Good |
| Stool Lab 460x350x650mm                        | 31.03.2006 | 1250.00     | Good |
| Pump Diesel Machine                            | 22.06.2002 | 300.00      | Good |
| Zero Till Fertiseed Drill                      | 8.12.2001  | Transferred | Good |
| Seed cum Ferti Drill 11 tyne double box center | 0.12.2001  | Transierieu | G000 |
| wheel drive                                    | 31.01.2005 | 18040.00    | Good |
| Table 4x25x2.5                                 | 19.03.2001 | 3980.00     | Good |
| Officer Table 1520x900x760mm                   | 5.03.2003  | 5050.00     | Good |
| Office Table                                   | 20.03.2004 | 22162.00    | Good |
| Office Table 910x650x760mm                     | 31.03.2006 | 4000.00     | Good |
| Computer Table 1500x650x760mm                  | 31.03.2006 | 5750.00     | Good |
| Wooden Takht 1830x915x450mm                    | 31.03.2006 | 2600.00     | Good |
| Office Rack Wooden 915x305x760mm               | 31.03.2006 | 6560.00     | Good |
| Steel Rack                                     | 19.03.2001 | 450.00      | Good |
| Steel Book Cell 1675x840x305mm                 | 6.03.2003  | 2899.50     | Good |
| Steel Book Cell 1675x840x305mm                 | 6.03.2003  | 2899.00     | Good |
| Steel Book Cell                                | 30.03.2004 | 9394.00     | Good |
| Book Case 1675x840x305mm                       | 31.03.2006 | 6720.00     | Good |
| Padestal Fan                                   | 15.07.2001 | Transferred | Good |
| Ceillling Fan T-Series 48"                     | 18.03.2002 | 926.00      | Good |
| Lock   | 19.01.2004 | 525.55      | Good |
| Lock   | 18.10.2004 | 110.00      | Good |
| Chain  | 18.10.2004 | . 10.00     | Good |
| Pipe   | 25.01.2004 | 312.00      | Good |
| Secateur                                       | 11.03.2004 | 346.00      | Good |
| Budding Knife                                  | 11.03.2004 | 250.00      | Good |
| Shower   | 19.03.2004 | 180.00      | Good |
| Slide Projector O.H.PNr. 6089-5 Kinderman      | 31.03.2004 | Transferred | Good |
| •  |            |             |      |
|  | 31.03.2004 | 3800.00     | Good |
| CDRW Samsung CD Writer                         | 31.03.2004 | 2200.00     | Good |
| Iron Plates 15"x10"with Stand 4"Rod            | 25.08.2004 | 3625.00     | Good |
| Board 3x2 with angle frame                     | 25.08.2004 | 3375.00     | Good |
| Tractor Sonalika DI 745III                     | 21.12.2004 | 334350.00   | Good |
| Sprayer cum Duster Aspee Bolo Motorised        | 31.01.2005 | 4650.00     | Good |

| Wonowing Fan Power Drawn                     | 31.01.2005 | 5270.00     | Good |
|--|------------|-------------|------|
| Computer                                     | 31.12.2003 | Transferred | Good |
| UPS  | 31.12.2003 | Transferred | Good |
| Printer HP Laserjet 1000                     | 31.12.2003 | Transferred | Good |
| UPS  | 21.12.2004 | 2495.00     | Good |
| Digital Still Camera Sony DSC-P 200          | 24.05.2006 | 21640.00    | Good |
| Cooler Cooler With Tullu Pump                | 24.03.2005 | 2400.00     | Good |
| Cooler Stand                                 | 28.03.2005 | 575.00      | Good |
| Paddy Transplanter Yanki Shakti 8row 2ZT-238 | 30.09.2005 | 151667.00   | Good |
| Tools 8 Pcs.                                 | 19.02.2007 | 1250.00     | Good |
| LCD Projector Panasonic PT-PI SDEA           | 30.03.2007 | 64125.00    | Good |
| SD Memory Card                               |            | 4000.00     | Good |
| LCD Screen Hygeine                           |            |             | Good |
| Inverter Hyundai 1400 VA                     | 14.05.2007 | 7900.00     | Good |
| Battery Exide 12 volts                       | 14.05.2007 | 16600.00    | Good |
| Trolly (Double Battery)                      | 14.05.2007 | 1300.00     | Good |
| Fax Machine Panasonic KX-FP 342              | 13.06.2007 |             | Good |
| UPS Numeric Digital LI Series                | 13.06.2007 |             | Good |
| Bicycle Hi-Bird Black HB 454273              | 22.09.2004 | 1825.00     | Good |

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

| SI.No. | Date     | Name and<br>Designation of<br>Participants   | Salient Recommendations   | Action taken   |
|--------|----------|--|---|--|
| 1.     | 24.03.18 | <ol> <li>Dr. G. P. Singh,<br/>CVO</li> <li>Ms. Ritusha Tiwari,<br/>SDAEO, Ag.</li> </ol>   | Dr A.S. Choudhary gave direction to conduct demonstration on Various prominent variety of early & late varities of Wheat at KVK farm.   | Demonstration on 12 Various prominent variety of early wheat & 16 late varieties of Wheat at KVK farm.   |
|        |          | <ul><li>3. Sh. R. C. Rana,<br/>DHO, Horti.</li><li>4. Sh Rajkumar,<br/>Dy.PD Ag.</li></ul>   | 2. Dr A.S. Choudhary directed to design a well manage crop cafeteria at KVK farm on front side.   | Crop cafeteria has been developed in the Rabi season.  |
|        |          | <ol> <li>Dr. Virendra         Gangwar, TA</li> <li>Sh. A.R. Singh         S.H.I. Horti.</li> <li>Sh V. K. Gautam         DPC, DASP</li> <li>Sh D.C. Shukla,         Kribhco</li> <li>Sh. A.Q. Khan         Director, BOB,         RSETI</li> <li>Dr A.S. Choudhary,         SVPUA&amp;T, Meerut</li> <li>Sh Satendra Singh,         Secretary, KBVS</li> </ol> | <ol> <li>Dr A.S. Choudhary has given the direction for testing of the soil of all the farmer's field where FLDs and OFTs are supposed to be conducted, in the soil testing laboratory.</li> <li>Dr A.S. Choudhary gave the direction that target and achievement against every activity should be mentioned</li> <li>Dr A.S. Choudhary gave the direction that captions should be given at each photograph.</li> <li>Dr A.S. Choudhary gave the direction that efforts should be made to replace the coarse seeded</li> </ol> | Soil Testing Will be done for such fields in the coming season as per the instruction of the Director Extension.  Target and achievement against every activity will be mentioned now onwards.  Captions will be given at each photograph.  Demonstrations as well as training programmes has been planned on basmati rice varieties |
|        |          | 12.Sh. Hariom,   | rice with basmati rice.   | Demonstration in the crop  |

- Member Farmer
- 13. Sh. Ishwari Prasad Member Farmer
- 14. Smt. Asha Devi Member Farmer
- 15. Smt. Archana Devi, Memebr Farmer
- 16. Smt. Sapna Mandal, Farmer
- 17.Dr Faiz Mohsin, Professor
- 18. Dr. N. C. Tripathi, Associate Director
- 19. Dr. R.C. Sethi, Associate Director
- 20. Dr. S.S. Dhaka, SMS/Asstt. Prof.
- 21. Dr. S.P. Singh, SMS, DE, Meerut
- 22. Dr. Mukesh Kumar Programme Asstt.
- 23. Sh. Parveen Kumar Programme Asstt.
- 24. Km. Akanksha Chauhan
- 25. Sh. G. D. Deorari Office Suptt./Accountant
- 26. Sh. Sudesh Kumar Jr. Steno/Comp. Operator
- 27. Sh Satendra Kumar Driver/Mechanic
- 28. Sh. Jai Ram, Messenger
- 29. Sh. Mool Kumar, Office Attendant
- 30. Sh. Mahesh Pal, Secretary, PGSS,
- 31. Sh. Harishankar, Chairman, PGSS

- 7. Director, RSETI, suggested that demonstration in the crop cafeteria should have clear mention of variety and date of sowing.
- 8. Director, RSETI suggested that the intercropping in sugarcane should be included in training programmes.
- DPC, DASP, demanded that some good crop of different kind should be available at KVK farm so that visitor farmers may be benefited.
- 10. Dr Virendra advised to conduct trainings on intercropping of vegetables with sugarcane.
- 11.SDAEO. (Ag.) suggested to impart more training programme on integrated Nutrient Management & balanced use of fertilizers.
- 12. Dy. P.D. (Ag.) advised to conduct demonstration and training programme on "wheat utilizing novel weedicides clodinofop" to popularize it among farmers.
- 13.DHO advised that achievements against targets should clearly be stated.
- 14. AO Kribhco suggested that summer rice cultivation should be discouraged to maintain the water table.
- 15. Sh Hariom, farmer member suggested that weekly agriculture bulletin should be given through local news papers.
- 16. Sh Ishwari Prasad, Farmer Member suggested that new agro chemicals should be available at the KVK as sample to show the farmers.
- 17. Sh Hari Om, Farmer suggested that more number of demonstrations & trainings on sugarcane should be conducted.
- 18. Participation of farm women in On campus and Off campus training programme should be ensured.
- 19. Action photographs should be given in the report
- 20. DPC DASP suggested that KVK farm should be levelled to enhance the crop production.

cafeteria will have clear mention of variety and date of sowing.

Training programmes on intercropping in sugarcane has been included.

The crop cafeteria was developed during the Rabi season to fulfil the demand.

Trainings on intercropping of vegetables with sugarcane will be conducted.

Four training programme on integrated Nutrient Management & balanced use of fertilizers has been included in the action plan.

Demonstration and training as well as OFT programme on weed management in wheat though clodinofop are being conducted.

Achievement against targets have been clearly stated in the report.

Farmers are being informed about the ill effect of summer rice through trainings, gosthies & media coverage.

Weekly agriculture updates & activities are being given in the local news papers.

New agro chemicals will be kept at the KVK as sample to show the farmers.

Two FLDs, one OFT & Six trainings on sugarcane has been included in the action plan.

Farm women have participated in On and Off campus training programme.

Action photographs have been incorporated in the report.

KVK farm will be levelled before the paddy crop to enhance the crop production.

## Action taken report of recommendations of Zonal Workshop (2017)

| SN | Salient Recommendation  | Action Taken  |
|----|---|---|
| 1  | Newly developed varieties should be emphasised and incorporated in the technical programmes of the KVKs.  | Only newly developed varieties have been incorporated in the technical programme of KVK Pilibhit.                                   |
| 2  | Technological characters of variety, chemicals, bio-agents and any other input taken in any programme must be specified.  | Technological characters of variety and chemicals taken in programme have been specified.   |
| 3  | Chemical name of the product/input should be mentioned in place of trade name. Its doses, time of application and any other information related to subject should also be mentioned in action plan and report.  | Only chemical names of the pesticides have been mentioned. All other informations are mentioned in report and action plan.          |
| 4  | Farmer's technology or practice is very important aspect. It should be well written and should be self explanatory.   | Farmers' practice has been written in self explanatory manner.  |
| 5  | Data of OFT and FLD should be critically analyzed before reporting. Economic analysis should be based on the real price.  | Data of OFT and FLD have been critically analyzed before reporting. Economic analysis is based on the real price.                   |
| 6  | OFT should be problem based and technology recommended by institutions should be taken accordingly.   | OFT is be problem based and technology recommended by institutions has been taken accordingly.                                      |
| 7  | Targets fixed by ICAR must be fulfilled according to the mandated activity.   | Targets fixed by ICAR have been fulfilled   |
| 8  | Seasonal variability data on rain fall etc should be linked with secondary data related to the FLD/OFT for scientific interference.   | Seasonal variability data on rain fall etc have been linked with secondary data related to the FLD/OFT for scientific interference. |
| 9  | Gross cost and market value of produce must be given in addition to net returns and B: C ratio to justify the economic analysis.  | Gross cost and market value of produce have been given in addition to net returns and B: C ratio to justify the economic analysis.  |
| 10 | Technical feedback and farmers' reaction should be reported.  | Technical feedback and farmers' reaction has been reported.   |
| 11 | For conducting the on-farm testing on management of soil born diseases the treatment of soil treatment should also be combined with seed treatment.   | At KVK Pilibhit no OFT is conducted on management of soil born diseases.  |
| 12 | The proposed OFT titled should be written suitably by using terms like "Assessment", "Evaluation" or "Performance", etc. rather than own perceived terms.   | The proposed OFT titled have been written by using terms like "Assessment", "Evaluation" or "Performance", etc.                     |
| 13 | The OFT should be designed based on the most prioritized problem of the district in the given crop or enterprises. Therefore, it was suggested that some of the OFTs may be taken to the farmers as FLDs. However, some of the OFTs must be in the areas of resource conservation, assessment | The OFT have been designed based on the most prioritized problem of the district in the given crop or enterprises.                  |

|    | of farm implements for drudgery reduction, small animals like goat, etc.   |  |
|----|--|--|
| 14 | The number of OFT to be conducted necessarily be double the number of available SMSs including PCs.  | The number of OFT to be conducted have been double the number of available SMSs including PCs.   |
| 15 | The planning of the instructional farm for seed and planting material production need to be done very religiously and carefully. The obtained produced may be sold, utilized and disseminated among the farmers of the district. The Director (Extension) of the respective Universities, therefore, take the initiatives in this direction. | The planning of the instructional farm for seed and planting material production has been done very religiously and carefully. The obtained seed is sold and disseminated among the farmers through agencies like NSC. |
| 16 | From most of the presentations it was observed that the number of target fixed by ICAR to each KVK was either kept more or less. Hence it was decided that the value of target should be kept as such without any deviation.   | The value of target has been kept as such without any deviation.   |
| 17 | Observations recorded in On Farm testing was found mostly on the parameters of yield and BC ratio. The data on other parameters of the test was observed missing in the most of the cases. It was therefore, suggested that all OFT must record.   | The data in OFT on other parameters of the test has been recorded and shown.   |
| 18 | The status of available infrastructure and demonstration units at Krishi Vigyan Kendras need to be maintained and made functional.   | The status of available infrastructure and demonstration units at Krishi Vigyan Kendras is being maintained and made functional.   |
| 19 | The Utilization Certificate may be submitted by 30th April.  | The Utilization Certificate is being submitted as per the instructions.  |
| 20 | The Audited Utilization Certificate may be submitted by 30th June in the prescribed format.  | The Audited Utilization Certificate is being submitted as per the instructions.  |
| 21 | Monthly expenditure in three heads (Capital, Salary and General heads) may be reported regularly.  | Monthly expenditure in three heads (Capital, Salary and General heads) is being reported regularly.  |
| 22 | Revolving Fund Account may be maintained and reported to this Directorate regularly.   | Revolving Fund Account is being maintained and being reported to Directorate regularly.  |
| 23 | Any anticipated savings at the end of financial year may be reported to ZPD for its re-allocation to other needy KVKs.   | Any anticipated savings at the end of financial year is being reported to ZPD.   |
| 24 | Utilization of General grant may be maintained in the ratio 40% Administrative Expenses and 60% Research and Operational Expenses.   | Utilization of General grant is being maintained in the ratio 40% Administrative Expenses and 60% Research and Operational Expenses.   |
| 25 | Expenditure (in any head) excess of the approved allocation may be avoided.  | Expenditure (in any head) excess of the approved allocation was avoided.   |
| 26 | Rush of expenditure in the month of February and March may be avoided.   | Rush of expenditure in the month of February and March have been avoided.  |

## 2. DETAILS OF DISTRICT (2017-18)

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

| S. No | Farming system/enterprise   |  |  |  |  |
|-------|---|--|--|--|--|
| 1.    | Wheat, Rice & sugar cane are the major crop of the district. Mainly five farming system are |  |  |  |  |
|       | existing in district i.e. Agriculture-sugarcane-Horticulture; Agriculture-sugarcane-Animal  |  |  |  |  |
|       | husbandry; Agriculture-Animal husbandry-Sericulture; Agriculture-sugarcane-Animal           |  |  |  |  |
|       | husbandry-Horticulture & agriculture alone.   |  |  |  |  |

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

| S. No | Agro-climatic                                     | Characteristics   |
|-------|---|---|
|       | Zone  |   |
| 1.    | Tarai & Bhawar as well as mid-western plain Zone. | District comes under Tarai & Bhawar as well as mid-western plain agro climatic zone of Uttar Pradesh. The soil of district mainly made up of transported and deposited material of aluminum dominated rocks of Tarai region having pH 7.0 to 8.1. The total Geographical area of the district is 378384 ha and net cultivated area is 233387 ha. Total irrigated area is 2.03 lac. ha.which shows that 96% area is irrigated. 2.19, 1.90 & 0.19850 lac ha area is under Kharif, Rabi & Zaid crop, respectively. Cropping intensity of the district is 182%, therefore, there is a great scope to increase the cropping intensity in the district. Normal rainfall is 1134 mm and temperature between 2.5 to 38°C. |

| S. No | Agro ecological | Characteristics   |
|-------|-----------------|---|
|       | situation       |   |
| 1.    | AES - I         | The district having sandy loam & loam soils with water table 12 to 15 feet and        |
|       |                 | moderate fertility. It is most suitable for paddy, wheat, sugarcane, Pulses & banana  |
|       |                 | etc. Lalaurikhera, Marauri and Barkhera development blocks fall under this AES.       |
| 2.    | AES - II        | The district having sandy loam to loam soils with moderate fertility medium rainfall, |
|       |                 | 15 to 20 feet water table. Two development blocks Viz. Bisalpur and Bilsanda come     |
|       |                 | under this AES.   |
| 3.    | AES - III       | The district having clay & clay loam soil with high fertility, high rainfall and most |
|       |                 | suited for paddy, summer paddy, wheat and sugarcane cultivation. Two blocks           |
|       |                 | Puranpur and Amaria come under this AES & waterlogging occurs during rainy            |
|       |                 | season. Water table ranges between 10 to 12 feet.                                     |

## 2.3 Soil types

|          |              |                               |         |              | Area ir | ha (Blocl | k wise)  |          |          |
|----------|--------------|-------------------------------|---------|--------------|---------|-----------|----------|----------|----------|
| S.<br>No | Soil<br>type | Characteristics               | Marauri | Lalaurikhera | Amaria  | Barkhera  | Bisalpur | Bilsanda | Puranpur |
| 1.       | Loam         | Well drain low organic matter | 8849    | 7170         | 13916   | 8947      | 9454     | 13481    | 30567    |
|          | Soil         | deficient in NPK              | 38%     | 40%          | 34%     | 40%       | 45%      | 50%      | 35%      |

| 2. | Sandy | Well drain low organic matter    | 11644 | 8964 | 19135 | 11184 | 9454 | 9436 | 48034 |
|----|-------|----------------------------------|-------|------|-------|-------|------|------|-------|
|    | Loam  | deficient in NP                  | 50%   | 50%  | 55%   | 50%   | 45%  | 35%  | 55%   |
|    | Soil  |                                  |       |      |       |       |      |      |       |
| 3. | Sandy | Well drain low organic matter    | 2794  | 1793 | 1740  | 2237  | 2101 | 4044 | 4367  |
|    | soil  | & medium texture soil.           | 12%   | 10%  | 5%    | 10%   | 10%  | 15%  | 5%    |
| 4. | Clay  | Water logged rich organic        |       |      |       |       |      |      | 4367  |
|    | Loam  | matter fine texture soil. Low NP |       |      |       |       |      |      | 5%    |
|    | Soil  | & medium K available.            |       |      |       |       |      |      |       |

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

| S. No | Crop        | Area (ha) | Production (MT.) | Productivity (Qtl/ha) |
|-------|-------------|-----------|------------------|-----------------------|
| 1.    | Wheat       | 158338    | 516990           | 41.77                 |
| 2.    | Paddy       | 143003    | 628859           | 30.10                 |
| 3.    | Sugarcane   | 87647     | 2774504          | 578.00                |
| 4.    | Rai/Mustard | 15605     | 5310             | 8.31                  |
| 5.    | Lentil      | 3407      | 1509             | 8.58                  |
| 6.    | Potato      | 910       | 13317            | 210.00                |

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

| Month     | Rainfall (mm) | Temperature <sup>0</sup> C |         | Relative Humidity (%) |
|-----------|---------------|----------------------------|---------|-----------------------|
|           |               | Maximum                    | Minimum |                       |
| April     | 1.80          | NA                         | NA      | NA                    |
| May       | 2.00          | NA                         | NA      | NA                    |
| June      | 16.16         | NA                         | NA      | NA                    |
| July      | 51.06         | NA                         | NA      | NA                    |
| August    | 165.87        | NA                         | NA      | NA                    |
| September | 213.85        | NA                         | NA      | NA                    |
| October   | 132.67        | NA                         | NA      | NA                    |
| November  | 25.34         | NA                         | NA      | NA                    |
| December  | 12.80         | NA                         | NA      | NA                    |
| January   | 35.67         | NA                         | NA      | NA                    |
| February  | 103.56        | NA                         | NA      | NA                    |
| March     | 67.67         | NA                         | NA      | NA                    |

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

| Category   | Population | Production | Productivity |
|------------|------------|------------|--------------|
| Cattle     | •          |            |              |
| Cow        |            |            |              |
| Crossbred  | 152525     | NA         | 6.4          |
| Indigenous | 107758     | NA         | 4.3          |
| Buffalo    | 187968     | NA         | 4.7          |
| Sheep      |            |            |              |
| Crossbred  |            |            |              |
| Indigenous | 972        | NA         | NA           |
| Goats      | 86785      | NA         | NA           |

| Pigs          |       |    |    |
|---------------|-------|----|----|
| Crossbred     | 835   | NA | NA |
| Indigenous    | 8311  | NA | NA |
| Rabbits       | NA    | NA | NA |
| Poultry       |       |    |    |
| Hens          |       |    |    |
| Desi/Backyard | 13284 | NA | NA |
| Improved      | 74986 | NA | NA |

| 2.7   | Details of Operational area / Villages (2017-18) |              |             |   |   |  |   |  |
|-------|--|--------------|-------------|---|---|--|---|--|
| Sl.No | Taluk/Teh  | Name of the  | Name/No. of | Major crops &                             | Major problem   | Identified   |   |  |
| •     | sil  | block        | the village | enterprises                               | identified  | Thrust Areas   |   |  |
| 1.    |  | Amaria       | 137         | Wheat, Paddy & Sugarcane                  | 1. Imbalance use of fertilizer in wheat,  | 1. Imbalance use of fertilizer & high  |   |  |
| 2.    |  | Marauri      | 140         | Wheat, Paddy & Sugarcane,<br>Summer Paddy | paddy & sugarcane crops.  | incidence of diseases & pests in   |   |  |
| 3.    | Pilibhit   | Lalaurikhera | 100         | Wheat, Paddy & Sugarcane                  | of diseases & pests in rice, wheat & sugarcane.  3. Lack of micronutrients in horticultural and agronomical crops.  4. Unavailability of improved variety of crops.  5. Lack of improved breed of Buffaloes & cows.  6. Imbalance feeding of milch animals.  7. Repeat breeding in milch animals.  8Lack of awareness regarding malnutrition.  9. Lack of knowledge regarding nutritive value of locally available meals  sugarcane crops.  2. IPNM agricultural horticultural of open poll high Yieldin hybrid varie crops.  4. Decline in fertility.  5. Malnutritich knowledge regarding parenting stylexisting in reass.  7. Value admension storage of properties.  8. Scientification of open poll high Yieldin hybrid varie crops.  4. Decline in fertility.  5. Malnutritich knowledge regarding parenting stylexisting in reass.  7. Value admension of storage of properties. |  |   |  |
| 4.    |  | Barkhera     | 134         | Wheat, Paddy & Sugarcane                  |   | horticultural and agronomical crops. 4. Unavailability of improved variety of crops. 5. Lack of improved breed of Buffaloes & cows. 6. Imbalance feeding of milch animals. 7. Repeat breeding in milch animals. 8Lack of awareness regarding malnutrition. 9. Lack of knowledge regarding nutritive value of locally | of open pollinated high Yielding & hybrid varieties in crops. 4. Decline in soil fertility. 5. Malnutrition in children. 6. Lack of knowledge regarding parenting style existing in rural |  |
| 5.    | Bisalpur   | Bisalpur     | 125         | Wheat, Paddy & Sugarcane                  |   |  |   |  |
| 6.    |  | Bilsanda     | 168         | Wheat, Paddy & Sugarcane                  |   |  | 8.Scientific Food grain Storage.  |  |
| 7.    | Puranpur   | Puranpur     | 437         | Wheat, Paddy & Sugarcane,<br>Summer Paddy | among working<br>men & women as<br>well as lactating &<br>pregnant women.   |  |   |  |

2.8 **Priority thrust areas** 

| S. | Crop/ Enterprise | Thrust area                                      |
|----|------------------|--|
| No |                  |  |
| 1  | Rice             | IPM in rice.                                     |
| 2  | Rice             | Poor yield of basmati rice & scented indigenous. |
| 3  | Rice             | Balanced use of fertilizers                      |
| 4  | Wheat            | IPM in Wheat                                     |
| 5  | Wheat            | Balanced use of fertilizers                      |

| 6  | Sugarcane         | IPM in sugarcane  |
|----|-------------------|---|
| 7  | Sugarcane         | Balanced use of fertilizers                                       |
| 8  | Sugarcane         | Low organic matter contents in soil                               |
| 9  | Lentil            | Non adoption of plant protection measures                         |
| 10 | Orchard           | Problem of insects, diseases & lack of micronutrients in orchards |
| 11 | Orchard           | Low productivity of Orchards                                      |
| 12 | Livestock         | Lack of improved breeds of buffalo and cows                       |
| 13 | Livestock         | Lack of the feeding quality of milch animals                      |
| 14 | Livestock         | Depletion in ground water   |
| 15 | Home Science      | Malnutrition in children  |
| 16 | Post Harvest Mgt. | Value addition.   |
| 17 | Post Harvest Mgt. | Scientific Food grain Storage                                     |
| 18 | Poplar            | Balance use of fertilizers, Use of proper clones & intercrops.    |

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

**Demonstrations** 

| <b>Before</b><br>Interventions                           | Main crop<br>Yield(q/ha) | Inter crop<br>Yield(q/ha) | Equivalent<br>Yield(q/ha) | Cost of cultivation(Rs/ha)* | Net income(Rs/ha) | B.C:<br>Ratio | Remark if any |
|--|--------------------------|---------------------------|---------------------------|-----------------------------|-------------------|---------------|---------------|
| Intercropping System(Kharif- Rabi-Zaid) - Livestock etc. |                          |                           |                           |                             |                   |               |               |
| Rabi-Sugarcane   | 685.34                   |                           |                           | 112891                      | 109844            | 1:1.97        |               |
| Zaid-Sugarcane   | 735.82                   |                           |                           | 123567                      | 115574            | 1:1.93        |               |

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

| After<br>Interventions                                   | Main crop<br>Yield(q/ha) | Inter crop<br>Yield(q/ha) | Equivalent yield(q/ha) | Cost of cultivation(Rs/ha)* | Net income(Rs/ha) | B.C:<br>Ratio | Remark if any |
|--|--------------------------|---------------------------|------------------------|-----------------------------|-------------------|---------------|---------------|
| Intercropping System(Kharif- Rabi-Zaid) - Livestock etc. |                          |                           |                        |                             |                   |               |               |
| Rabi- Sugarcane +<br>Lentil                              | 745.57                   | 9.72                      | 874.17                 | 123649                      | 160457            | 1:2.29        |               |
| Zaid- Sugarcane+<br>Blackgram                            | 812.74                   | 7.73                      | 921.92                 | 130428                      | 169270            | 1:2.30        |               |

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

# 3. TECHNICAL ACHIEVEMENTS3.A. Details of target and achievements of mandatory activities by KVK during 2017-18

| OFT (T  | echnology Asses | sment and           | Refinement) | FL         | LD (Oilseeds, Pu<br>Crops/En | *       | n, Other     |
|---------|-----------------|---------------------|-------------|------------|------------------------------|---------|--------------|
|         | 1               | L                   |             | 2          |                              |         |              |
| Numb    | oer of OFTs     | Total no. of Trials |             | Area in ha |                              | Numbe   | r of Farmers |
| Targets | Achievement     | Targets             | Achievement | Targets    | Achievement                  | Targets | Achievement  |
| 08      | 08              | 40                  | 40          | 50 ha      | 76.5 ha                      | 100     | 183          |

| Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit) |         |           |                           |           | Extension Activities |        |                        |        |
|--|---------|-----------|---------------------------|-----------|----------------------|--------|------------------------|--------|
|  |         | 3         |                           |           |                      |        | 4                      |        |
| Number of Courses  |         |           | Number of<br>Participants |           | Number of activities |        | Number of participants |        |
| Clientele  | Targets | Achieveme | Target                    | Achieveme | Targets              | Achiev | Targets                | Achiev |
|  |         | nt        | S                         | nt        |                      | ement  |                        | ement  |
| Farmers  | 80      | 94        | 1600                      | 1880      | 1000                 | 1834   | 10000                  | 10552  |
| Rural youth  | 08      | 09        | 80                        | 90        |                      |        |                        |        |
| Extn.<br>Functionaries   | 30      | 36        | 600                       | 720       |                      |        |                        |        |

| Se            | eed Production | (Qtl.)             | Planting material (Nos.) |                 |                  |  |  |
|---------------|----------------|--------------------|--------------------------|-----------------|------------------|--|--|
|               | 5              |                    |                          | 6               |                  |  |  |
| Target        | Achievement    | Distributed to no. | Target                   | Achievement     | Distributed to   |  |  |
|               |                | of farmers         |                          |                 | no. of farmers   |  |  |
|               |                |                    |                          | Poplar Nursery  |                  |  |  |
| Kharif- 2017  | 378            | Supplied to NSC    | 20000                    | 750 ETP         | Consumed for     |  |  |
| 200           |                |                    |                          | (mother plant ) | establishment of |  |  |
|               |                |                    |                          |                 | new nursery at   |  |  |
|               |                |                    |                          |                 | KVK              |  |  |
| Rabi- 2017-18 | 350            | Supplied to NSC    |                          |                 |                  |  |  |
| 200           |                |                    |                          |                 |                  |  |  |

## I.A TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops by KVKs

| Thematic areas Crop Name of the technology assessed |       | No. of<br>trials   | No. of farmer |    |
|---|-------|--|---------------|----|
| Integrated Weed                                     | Paddy | Butachlor @ 2.5 lit./ha and pretilachlor 25 EC @ 1.25 lit./ha                                    | 05            | 05 |
| Management  | Wheat | Sulfosulfuron 75 WDG + Metsulfuron methyl and<br>Clodinafop propargyl 50 EC + Metsulfuron methyl | 05            | 05 |
| Varietal Evaluation                                 | Wheat | Productivity of wheat variety WH-1105 and HD-3086  | 05            | 05 |
| Integrated Pest<br>Management                       | Paddy | Fipronil 5 SC @ 1lt/ha and Thiocyclam hydrogen oxalate 0.4 GR                                    | 05            | 05 |

|                          | 40        | 40   |    |    |
|--------------------------|-----------|--|----|----|
| Nutritional Garden       |           | Use of improved paddy harvester for reduction of drudgery in paddy thrashing | 05 | 05 |
| Agro forestry Management | Poplar    | Improved clones of PP-5 and S7C8   | 05 | 05 |
|                          | Sugarcane | Fipronil 5 SC and chlorantraniliprole 18.5 SC                                | 05 | 05 |
|                          | Paddy     | Buprofezin @ 1 lt/ha & Pymetrozin  | 05 | 05 |

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 |
|----------------|----------------------------------|---------------------------------|---------------|----------------|
|----------------|----------------------------------|---------------------------------|---------------|----------------|

Summary of technologies assessed under various enterprises by KVKs

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

#### I.B. TECHNOLOGY REFINEMENT

Summary of technologies refined under various crops by KVKs

| Thematic areas | Cron | Name of the technology refined | No. of | No. of  |
|----------------|------|--------------------------------|--------|---------|
| Themauc areas  | Crop | Name of the technology refined | trials | farmers |

## Summary of technologies refined under various livestock by KVKs

|                | Name of the | Name of the |                 | No. of farmers  |
|----------------|-------------|-------------|-----------------|-----------------|
| Thematic areas | livestock   | technology  | No. of trials   | 140. of farmers |
| Thematic areas | enterprise  | refined     | 1 to. of trials |                 |

#### Summary of technologies refined under various enterprises by KVKs

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

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

#### 1. WEED MANAGEMENT

**Problem definition:** Heavy infestation of weed in wheat.

**Technology Assessed:** Weed control measures on wheat in Pilibhit.

KVK Pilibhit took up on-farm trial on chemical weed management in paddy.

Table: Effect of Sulfosulfuron 75 WDG + Metsulfuron methyl and Clodinafop propargyl 50 EC +

Metsulfuron methyl on weed control and yield of wheat.

| Technology Option | No.of | No. of | Yield | Increase | Cost of | Total | Net | B:C |
|-------------------|-------|--------|-------|----------|---------|-------|-----|-----|

|   | trials | weeds/m <sup>2</sup> | (qt./ha) | in yield<br>(%) | Input/ha<br>(Rs) | return<br>per ha<br>(Rs) | Return<br>(Rs./ha) | Ratio  |
|---|--------|----------------------|----------|-----------------|------------------|--------------------------|--------------------|--------|
| Older weed control measure,<br>Sulfosulfuron 75 WDG + 2,4-<br>D. (Farmers Practice) |        | 59                   | 46.34    |                 | 50165.0          | 74144.0                  | 23979.0            | 1:1.47 |
| Sulfosulfuron 75 WDG + Metsulfuron methyl (Recommended Practice)                    | 05     | 23                   | 50.72    | 9.45            | 51783.0          | 81152.0                  | 29279.0            | 1:1.57 |
| Clodinafop propargyl 50 EC<br>+ Metsulfuron methyl                                  |        | 12                   | 51.89    | 11.79           | 51819.0          | 83024.0                  | 31205              | 1:1.60 |

(Sale Price. Rs 1600/q)

**Farmers Reactions & Recommendations:** The results indicated that the use of Clodinafop propargyl 50 EC + Metsulfuron methyl gave 11.79 per cent increase in yield over farmers practice of no use of chemical weed control.

Farmers liked the technology, use of Clodinafop propargyl 50 EC + Metsulfuron methyl for the management of weeds as it increased the yield of wheat significantly by reducing the weeds population.

#### 2. WEED MANAGEMENT

**Problem definition:** Heavy infestation of weed in paddy

**Technology Assessed:** Weed control measures on paddy yield in Pilibhit.

KVKs Pilibhit took up on-farm trial on chemical weed management in paddy.

Table: Effect of Butachlor and Pretilachlor on weed control and yield at paddy

| Technology Option   | No.of<br>trials | No. of weeds/m <sup>2</sup> | Yield<br>(qt./ha) | Increase<br>in yield<br>(%) | Cost of<br>Input/ha<br>(Rs) | Total<br>return<br>per ha<br>(Rs) | Net<br>Return<br>(Rs./ha) | B:C<br>Ratio |
|---|-----------------|-----------------------------|-------------------|-----------------------------|-----------------------------|-----------------------------------|---------------------------|--------------|
| No weed control measure (Farmers Practice)                              |                 | 123                         | 48.43             |                             | 49235.0                     | 70223.5                           | 20988.5                   | 1:1.42       |
| Butahlor @ 2.5 l/ha as pre-<br>emergent spray<br>(Recommended Practice) | 05              | 56                          | 53.56             | 10.59                       | 50167.0                     | 77662.0                           | 27495.0                   | 1:1.54       |
| Pretilachlor 50 EC @ 1.25 l/ha prior to transplanting                   |                 | 35                          | 58.19             | 20.15                       | 50451.0                     | 84955.5                           | 34504.5                   | 1:1.68       |

(Sale Price. Rs 1450/q)

**Farmers Reactions & Recommendations:** The results indicated that the use of Pretilachlor @ 1.25 l/ha gave 20.15 per cent increase in yield over farmers practice of no use of chemical weed control.

Farmers liked the technology, use of Pretilachlor 50 EC @ 1.25 for the management of weeds as it increased the yield of paddy significantly by reducing the weeds population.

#### 3. PEST AND DISEASE MANAGEMENT

**Problem definition:** Heavy infestation of early shoot borer in sugarcane effecting in a yield loss of 15 to 20%

**Technology Assessed:** Early shoot borer Management in Sugarcane (Co-0238).

Sugarcane is an important cash crop of Pilibhit. However, there is high incidence of early shoot borer pest resulting in yield loss. An on farm trial was conducted to assess the control measure.

Table Effect of different methods in control of early stem borer in sugarcane

| Technology Option                                      | No. of<br>trials | Infestat<br>ion of<br>early<br>shoot<br>borer<br>(%) | Yield<br>(q/ha) | % Increase in yield over farmer's practice | Cost of Input/h a (Rs.) | Total<br>return<br>per ha<br>(Rs.) | Net<br>Return<br>(Profit)/<br>ha (Rs.) | CB Ratio |
|--|------------------|--|-----------------|--|-------------------------|------------------------------------|--|----------|
| Application Phorate                                    |                  | 12.07  | <b>797.97</b>   |  | 112765                  | 212220 7                           | 004747                                 | 1.1.07   |
| 10G @ 25 kg/ha<br>(Farmers Practice)                   |                  | 13.87  | 687.87          |  | 113765                  | 213239.7                           | 99474.7                                | 1:1.87   |
| Application of   |                  |  |                 |  |                         |                                    |  |          |
| fipronil 5 SC @ 1 l/ha (Recommended Practice)          | 05               | 8.74   | 723.21          | 5.13                                       | 118453                  | 224195.1                           | 105742.1                               | 1:1.89   |
| Application of chlorantraniliprole 18.5 SC @ .425 l/ha |                  | 4.53   | 789.62          | 14.79                                      | 121788                  | 244782.2                           | 122994.2                               | 1:2.01   |

(Sale Price. Rs. 325/q)

**Farmers Reactions & Recommendations:** The assessed technology of application of chlorantraniliprole 18.5 SC @ 0.425 l/ha reduced the percentage of insect infestation from 13.87 to 4.53 and yield was increased by 14.79 per cent.

Farmers appreciated the technology, Application of chlorantraniliprole 18.5 SC @ .425 l/ha to manage the early shoot borer in sugarcane as it reduced the insect infestation effectively and significantly increased the yield of sugarcane.

#### 4. VARIETAL EVALUATION

**Problem definition:** Low yield of Wheat due to unavailability of suitable varieties

**Technology Assessed:** Evaluation of high yielding variety of Wheat

KVK, conducted on-farm trial to assess new varieties of wheat.

Table Performance of different varieties of Wheat

| Technology<br>Option             | No.of<br>trials | Production<br>per ha (Qt) | %<br>Increase<br>in yield | Cost of<br>Input/ha<br>(Rs) | Total<br>return per<br>ha (Rs) | Net Return<br>(Profit)/ ha<br>(Rs) | CB<br>Ratio |
|----------------------------------|-----------------|---------------------------|---------------------------|-----------------------------|--------------------------------|------------------------------------|-------------|
| Farmers<br>practice HD -<br>2967 |                 | 53.45                     |                           | 49761.00                    | 88152.50                       | 38431.50                           | 1:1.77      |
| WH-1105                          | 05              | 53.61                     | 6.09                      | 50531.00                    | 88456.50                       | 37925.50                           | 1:1.75      |
| HD- 3086                         |                 | 55.34                     | 9.52                      | 51213.00                    | 91311.00                       | 40098.00                           | 1:1.78      |

(Sale Price. Rs. 1650/q)

**Farmers Reactions & Recommendations:** The new varieties WH-1105 and HD - 3086 had realized a net return of Rs. 37925.50/ha and Rs. 40098.00/ha, respectively as compared to the farmer' practice with net returns of Rs. 38431.50 /ha.

Farmers liked the variety HD 3086 as its yield is significantly higher than the farmers practice.

#### 5. PEST AND DISEASE MANAGEMENT

**Problem definition:** Heavy infestation of stem borer in paddy effecting in a yield loss of 15 to 20%

**Technology Assessed:** Stem borer Management in paddy (HKR-47).

Paddy is an important cereal crop of Pilibhit. However, there is high incidence of Stem borer pest resulting in yield loss. An on farm trial was conducted to **assess** the control measure.

Table Effect of different methods in control of stem borer in paddy

| Technology Option   | No. of<br>trials | Infestat<br>ion of<br>stem<br>borer<br>(%) | Yield<br>(q/ha) | % Incre ase in yield over farme r's practi ce | Cost of Input/h a (Rs.) | Total<br>return<br>per ha<br>(Rs.) | Net<br>Return<br>(Profit)/<br>ha (Rs.) | CB Ratio |
|---|------------------|--|-----------------|---|-------------------------|------------------------------------|--|----------|
| Application of cartap<br>4G @ 25 kg/ha<br>(Farmers Practice)                |                  | 15.36                                      | 43.56           |   | 50318                   | 65340.0                            | 15022.0                                | 1:1.29   |
| Application of chlorantraniliprole 0.4 GR @ 10 kg/ha (Recommended Practice) | 05               | 7.69                                       | 49.34           | 13.27   | 51761                   | 74010.0                            | 22249.0                                | 1:1.43   |
| Application of thiocyclam hydrogen oxalate 4 GR @ 12 kg/ha                  |                  | 5.14                                       | 54.27           | 24.58   | 51972                   | 81405.0                            | 29433.0                                | 1:1.57   |

(Sale Price. Rs. 1500/q)

**Farmers Reactions & Recommendations:** The assessed technology of application of thiocyclam hydrogen oxalate 4 GR @ 12 kg/ha reduced the percentage of Insect infestation from 15.36 to 5.14 and yield was increased by 24.58 per cent.

Farmers appreciated the technology, Application of thiocyclam hydrogen oxalate 4 GR @ 12 kg/ha to manage the stem borer in paddy as it reduced the insect infestation effectively and significantly increased the yield of paddy.

#### 6. PEST AND DISEASE MANAGEMENT

**Problem definition:** Heavy infestation of Brown Plant hopper in paddy effecting in a yield loss of 12 to 18% **Technology Assessed:** Brown Planthopper Management in paddy (PR-113).

Paddy is an important cereal crop of Pilibhit. However, there is high incidence of Brown Planthopper pest resulting in yield loss. An on farm trial was conducted to **assess** the control measure.

Table Effect of different methods in control of Brown Planthopper in paddy

| Technology Option   | No.of<br>trials | Infestat<br>ion of<br>Brown<br>Plantho<br>pper<br>(%) | Yield<br>(q/ha) | % Incre ase in yield over farme r's practi ce | Cost of Input/h a (Rs.) | Total<br>return<br>per ha<br>(Rs.) | Net<br>Return<br>(Profit)/<br>ha (Rs.) | CB Ratio |
|---|-----------------|---|-----------------|---|-------------------------|------------------------------------|--|----------|
| Application of Dichlorovas @1 lt/ha (Farmers Practice)            |                 | 14.51   | 45.63           |   | 52376                   | 63882.0                            | 11506.0                                | 1:1.22   |
| Application of Burprofezin 25 SC @ 1 lt/ha (Recommended Practice) | 05              | 8.75  | 53.15           | 16.48   | 53782                   | 74410.0                            | 20538.0                                | 1:1.38   |
| Application of Pymetrozine 50 WG @ 0.33kg/ha                      |                 | 3.94  | 54.86           | 20.23   | 54231                   | 76804.0                            | 22573.0                                | 1:1.42   |

**Farmers Reactions & Recommendations:** The assessed technology of Application of pymetrozine 50 WG @ 0.33 kg/ha reduced the percentage of Insect infestation from 14.51 to 3..94 and yield was increased by 20.23 per cent.

Farmers appreciated the technology, application of Pymetrozine 50 WG @ 0.33kg/ha to manage the brown planthopper in paddy as it reduced the insect infestation effectively and significantly increased the yield of paddy.

#### 7. AGROFORESTRY MANAGEMENT

**Problem definition:** Lower productivity and profitability in Poplar cultivation due to improper selection of clones

**Technology Assessed:** Improved clones of poplar (PP-5, S7C8)

KVK, conducted on-farm trial to find out appropriate clone to enhance the poplar productivity. The assessed clone of S7C8 was found to be best with highest growth parameters (diameter, height) and litter fall in one year .

Table Effect of different fertilizer doses in poplar;

| Technology<br>Option    | No.of trials | Diameter<br>(cm) | % increased diameter | Height (m) | % increased height | Litter<br>fall<br>(t/ha) | % increased litter Fall |
|-------------------------|--------------|------------------|----------------------|------------|--------------------|--------------------------|-------------------------|
| Farmers practice – G-48 |              | 8.67             |                      | 16.28      |                    | 1.62                     |                         |
| PP-5                    | 05           | 9.81             | 13.15                | 17.91      | 10.01              | 2.43                     | 50.00                   |
| S7C8                    |              | 10.54            | 21.57                | 20.23      | 25.03              | 3.68                     | 127.16                  |

Farmers Reactions & Recommendations: The assessed clone of S7C8 was found to be best with highest growth parameters (diameter, height) and litter fall in one year .

Farmers liked the clone S7C8 as it was beneficial to farmers economically.

#### 8. DRUDGERY REDUCTION

**Problem definition:** Increased work load on farm women in paddy threshing.

**Technology Assessed:** Enhancing work efficiency and reducing drudgery of farm women in paddy threshing by the use of improved paddy thresher.

Work efficiency and drudgery is an identified problem of women in the area. Among many activities traditional paddy threshing (beating the paddy stalks on drum) is one of the most drudgery prone activity.

Table: Drudgery reduction in paddy threshing

| Technology Option                        | No. of<br>trials | Quantity<br>of paddy<br>threshed<br>/ day | % Increase in quantity over farmer's practice | Remark   |
|--|------------------|---|---|--|
| Farmers Practice<br>(Traditional method) |                  | 3.12                                      |   | With the use of improved technology, the quantity threshed manifold with enhanced time efficiency and decreased work load resulted in                      |
| Use of paddle paddy thresher             | 05               | 10.34                                     | 231.41  | reduced drudgery.  With improved body posture in using paddle paddy thresher reduction in physical stress is observed resulting in saving of human energy. |

**Farmers Reactions & Recommendations:** The improved paddle thresher for threshing of paddy designed by department of farm and machinery, College of Technology, GBPUA&T, Pantnagar was demonstrated to the farm women. The aim of the OFT is to improve work efficiency and reducing the drudgery level of the farm women in paddy threshing.

## II. FRONTLINE DEMONSTRATION

### a. Follow-up for 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

|      |                      |  | Details of           | Horizonta | spread of tech | nology  |
|------|----------------------|--|----------------------|-----------|----------------|---------|
| S. N | Thematic Area        | Technology demonstrated                              | popularization       | No. of    | No. of         | Area in |
| 5.11 | Thematic Area        | reemology demonstrated                               | methods suggested to | villages  | farmers        | ha      |
|      |                      |  | the Extension system |           |                |         |
| 1    | Varietals evaluation | Replacement of local variety of Lentil by KLB-320    | FLD                  | 43        | 176            | 53      |
| 2    | Weed Management      | Weedicides to control <i>Phalaris minor</i> in Wheat | FLD                  | 71        | 235            | 310     |
| 3    | Varietal Evaluation  | Hybrid rice variety                                  | FLD                  | 58        | 215            | 275     |
| 4    | Varietal Evaluation  | Basmati variety of Paddy                             | FLD                  | 81        | 731            | 576     |
| 5    | Integrated weed      | Use of pre emergence weedicide in paddy crop         | FLD                  | 84        | 876            | 450     |
|      | management           |  |                      |           |                |         |
| 6    | Integrated weed      | Use of post emergence weedicide in paddy crop        | FLD                  | 84        | 876            | 450     |
|      | management           |  |                      |           |                |         |
| 7    | Integrated Disease   | Use of bio rational chemicals to control karnal bunt | FLD                  | 78        | 435            | 376     |
|      | Management           | of Wheat.  |                      |           |                |         |
| 8    | INM                  | Use of macro & Micro nutrient in sugarcane.          | FLD                  | 46        | 263            | 198     |
| 9    | Integrated pest      | Management of stem borer in Paddy.                   | FLD                  | 136       | 471            | 318     |
|      | Management           |  |                      |           |                |         |
| 10   | INM                  | Popularization of Eucalyptus species                 | FLD                  | 41        | 131            | 47      |
| 11   | INM                  | Use of macro nutrient in poplar                      | FLD                  | 32        | 73             | 136     |
| 12   | Nutritional Garden   | Use of vegetables for nutrition.                     | FLD                  | 25        | 64             | 121     |
| 13   | Value addition       | Preservation of fruits and vegetables                | FLD                  | 07        | 56             | _       |

b. Details of FLDs implemented during 2017-18

| Sl.<br>No | Crop   | Thematic area          | Technology Demonstrated                    | Season<br>and year | Area (ha) |        |       | of farme |       | Reasons for shortfall in achievement |
|-----------|--------|------------------------|--|--------------------|-----------|--------|-------|----------|-------|--------------------------------------|
| •         |        |                        |  |                    | Proposed  | Actual | SC/ST | Others   | Total |                                      |
| 1         | Lentil | Varietal<br>Evaluation | KLB-320                                    | Rabi<br>2017-18    | 5.0       | 5.0    | 2     | 11       | 13    |                                      |
| 2         | Wheat  | Weed Control           | Improved weedicide<br>Clodinafop Propargyl | Rabi<br>2017-18    | 8.0       | 8.0    | 4     | 16       | 20    |                                      |

| 3  | Hybrid Rice           | Improved<br>Varieties         | Hybrid Rice Variety PAC-837  | Kharif<br>2017   | 5.0  | 5.0  | 2 | 8  | 10 |           |
|----|-----------------------|-------------------------------|--|------------------|------|------|---|----|----|-----------|
| 4  | Paddy                 | Varietal<br>Evaluation        | Basmati Variety –Pusa 1509   | Kharif<br>2017   | 5.0  | 5.0  | 1 | 9  | 10 |           |
| 5  | Paddy                 | Weed Control                  | Paddy Variety PR-113   | Kharif<br>2017   | 8.0  | 8.0  | 3 | 17 | 20 |           |
| 6  | Paddy                 | Weed Control                  | Paddy Variety PR-113   | Kharif<br>2017   | 4.0  | 4.0  | 2 | 8  | 10 |           |
| 7  | Wheat                 | Integrated Disease Management | Use of bio rational chemicals to control karnal bunt of Wheat.           | Rabi<br>2017-18  | 8.0  | 8.0  | 2 | 18 | 20 |           |
| 8  | Sugarcane             | IPM                           | Use of bio rational chemicals to control early shoot borer of sugarcane. | Zaid<br>2017     | 4.0  | 4.0  | 2 | 8  | 10 |           |
| 9  | Paddy                 | Integrated pest Management    | Management of stem borer in paddy.                                       | Kharif<br>2017   | 4.0  | 4.0  | 1 | 9  | 10 |           |
| 10 | Eucalyptus            | INM                           | Introduction of suitable Eucalyptus species                              | Kharif<br>2017   | 10.0 | 10.0 | 2 | 18 | 20 | Continued |
| 11 | Poplar                | Integrated<br>Farming System  | Balanced & proper use of fertilizers                                     | Zaid<br>2017     | 5.0  | 5.0  | 2 | 8  | 10 |           |
| 12 | Nutritional<br>Garden | Nutritional security          | Use of vegetables throughout the year                                    | rabi<br>2017-18  | 0.5  | 0.5  | 1 | 04 | 05 |           |
| 13 | Value<br>Addition     | Value addition                | Preservation of fruits and vegetables                                    | Rabi 2017-<br>18 | -    | 02   | - | 02 | 02 |           |

## **Details of farming situation**

| Crop        | Season       | Farming situation (RF/Irrigat ed) | l type    |     | Status of s | oil    | evious<br>rop | Sowing   | Harvest<br>date | P == | No. of<br>iny days |
|-------------|--------------|-----------------------------------|-----------|-----|-------------|--------|---------------|----------|-----------------|------|--------------------|
|             | Š            | Farm<br>situa<br>(RF/Ir           | Soil      | N   | P           | K      | P. O.         | So       | Ha              | ra   | No<br>rainy        |
| Lentil      | Rabi 2017-18 | Irrigated                         | Clay Loam | Low | Low         | Medium | Paddy         | 22.11.17 | 20.03.18        |      |                    |
| Wheat       | Rabi 2017-18 | Irrigated                         | Clay Loam | Low | Low         | Medium | Paddy         | 14.11.17 | 12.04.18        |      |                    |
| Hybrid Rice | Kharif 2017  | Irrigated                         | Clay Loam | Low | Low         | Medium | Wheat         | 04.07.17 | 26.11.17        |      |                    |
| Paddy       | Kharif 2017  | Irrigated                         | Clay Loam | Low | Low         | Medium | Wheat         | 16.07.17 | 28.11.17        |      |                    |

| Paddy                 | Kharif 2017  | Irrigated | Clay Loam | Low | Low | Medium | Wheat   | 02.07.17 | 15.11.17 |  |
|-----------------------|--------------|-----------|-----------|-----|-----|--------|---------|----------|----------|--|
| Paddy                 | Kharif 2017  | Irrigated | Clay Loam | Low | Low | Medium | Wheat   | 28.06.17 | 09.11.17 |  |
| Wheat                 | Rabi 2017-18 | Irrigated | Clay Loam | Low | Low | Medium | Paddy   | 11.11.17 | 12.04.18 |  |
| Sugarcane             | Zaid 2017    | Irrigated | Clay Loam | Low | Low | Medium | Wheat   | 08.03.17 | 18.02.18 |  |
| Paddy                 | Kharif 2017  | Irrigated | Clay Loam | Low | Low | Medium | Toria   | 05.07.17 | 11.11.18 |  |
| Eucalyptus            | Zaid 2017    | Irrigated | Clay Loam | Low | Low | Medium | Mustard | 27.02.11 | Cont.    |  |
| Poplar                | Zaid 2017    | Irrigated | Clay Loam | Low | Low | Medium | Paddy   | 11.01.11 | Cont.    |  |
| Nutritional<br>Garden | Rabi 2017-18 | Irrigated | Clay Loam | Low | Low | Medium | Paddy   | 11.01.18 | 12.03.18 |  |
| Value<br>Addition     | Rabi 2017-18 | -         | -         | -   | -   | -      | -       | -        |          |  |

## Technical Feedback on the demonstrated technologies

| S. | Crops          | Feed Back  |
|----|----------------|--|
| No |                |  |
| 1  | Lentil         | Lentil KLB-320 variety is higher in yield than local.  |
| 2  | Wheat          | Chlodinafop propargyl controlled the broad leaved weeds very effectively.  |
| 3  | Hybrid Rice    | Hybrid rice PAC-837 is the highest in Yield among the other common hybrid rice.                                    |
| 4  | Paddy          | Highest yield was found in Pusa - 1509 & scent is also present.  |
| 5  | Paddy          | Pretilachlor controlled the the weeds very effectively as pre-emergent treatment.                                  |
| 6  | Paddy          | Bispyruvic sodium controlled the the weeds very effectively as post-emergent treatment.                            |
| 7  | Wheat          | Propiconazole 25 EC was found very effective in managing the rusts of wheat.                                       |
| 8  | Sugarcane      | Integrated Pest Management gave better yield than normal practice  |
| 9  | Paddy          | Chlorantraniliprole 18.5 SC gave good control of stem borer in paddy.  |
| 10 | Eucalyptus     | Trial is going on.   |
| 11 | Poplar         | Trial is going on.   |
| 12 | Nutritional    | Enhancing the quantity of seasonal vegetables in daily diet of farm families improving nutritional security of the |
|    | Garden         | family members.  |
| 13 | Value addition | Availability of value added products in the diet and checking the wastage of perishable fruits and vegetables.     |

Farmers' reactions on specific technologies

| S. No | Feed Back   |
|-------|---|
| 1     | High attack wild animal especially blue bull was noticed as a serious hurdle in increasing the area, production & productivities of |
|       | pulses crop specially Lentil.   |
| 2     | Farmer's were very keen in adopting the chemical methods of pest and disease management as they were looking for instant            |
|       | suppression of pests  |
| 3     | Farmer's are adopting the chemical weed control practices to control the major weed of wheat  |

**Extension and Training activities under FLD** 

| Sl.No. | Activity                             | No. of activities organised | Date          | Number of participants | Remarks |
|--------|--------------------------------------|-----------------------------|---------------|------------------------|---------|
| 1      | Field days                           | 12                          | April to Mar. | 375                    |         |
| 2      | Farmers Training                     | 48                          | April to Mar. | 960                    |         |
| 3      | Media coverage                       | 39                          | April to Mar. | Mass                   |         |
| 4      | Training for extension functionaries | 05                          | April to Mar. | 85                     |         |

### **Performance of FLD**

|         | Technology                                  | Variet      | No.<br>of       | Are        | De   | mo. Yi<br>Qtl/ha |       | Yield of local   | %<br>Incre   | Eco           |                 | demonstr<br>./ha) | ation        | Eco           | onomics of      | f checks.         | /ha)         |
|---------|---|-------------|-----------------|------------|------|------------------|-------|------------------|--------------|---------------|-----------------|-------------------|--------------|---------------|-----------------|-------------------|--------------|
| Crop    | <b>Demonstrated</b>                         | y           | Far<br>me<br>rs | a<br>(ha.) | Н    | L                | A     | Check<br>Qtl./ha | ase in yield | Gross<br>Cost | Gross<br>Return | Net<br>Return     | BCR<br>(R/C) | Gross<br>Cost | Gross<br>Return | Net<br>Retur<br>n | BCR<br>(R/C) |
| Pulse ( | Crop  |             |                 |            |      |                  |       |                  |              |               |                 |                   |              |               |                 |                   |              |
| Lentil  | Replacement of local variety of Lentil Pl-8 | KLB-<br>320 | 13              | 5.0        | 16.4 | 12.3             | 14.84 | 10.75            | 38.04        | 37671         | 63612           | 25941             | 1:1.69       | 36237         | 46225           | 9988              | 1:1.28       |

| Cereals         | ereals Crops                                  |               |    |     |       |       |       |       |       |       |        |       |        |       |       |       |        |
|-----------------|---|---------------|----|-----|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|-------|-------|--------|
| Wheat           | Improved weedicide<br>Clodinafop<br>Propargyl | HD-<br>2967   | 20 | 8.0 | 57.71 | 53.58 | 55.74 | 48.61 | 14.66 | 49231 | 91971  | 42740 | 1:2.15 | 46871 | 80206 | 33335 | 1:1.71 |
| Hybri<br>d rice | Hybrid Rice Variety                           | PAC-<br>837   | 10 | 5.0 | 74.71 | 68.54 | 71.53 | 61.41 | 16.47 | 48951 | 100142 | 51191 | 1:2.04 | 45739 | 85974 | 40235 | 1:1.87 |
| Paddy           | Basmati Variety –<br>Pusa-1509                | Pusa-<br>1509 | 15 | 4.0 | 48.48 | 42.49 | 45.75 | 38.61 | 18.49 | 48671 | 91500  | 42829 | 1:1.87 | 46781 | 77220 | 30349 | 1:1.64 |
| Paddy           | Improved weedicide pretilachlor               | PR-<br>113    | 20 | 8.0 | 61.76 | 55.45 | 58.10 | 50.30 | 15.50 | 48923 | 84245  | 35322 | 1:1.72 | 47161 | 72935 | 25774 | 1:1.54 |

| Paddy                          | Improved weedicide bispyruvic sodium                             | PR-<br>113                     | 10 | 4.0  | 62.98      | 56.65      | 59.30      | 52.45  | 13.06 | 48619  | 85985        | 37366         | 1:1.76 | 46891      | 76052        | 29161 | 1:1.62 |
|--------------------------------|--|--------------------------------|----|------|------------|------------|------------|--------|-------|--------|--------------|---------------|--------|------------|--------------|-------|--------|
| Wheat                          | Integrated disease<br>management in<br>wheat                     | DBW-<br>17                     | 20 | 8.0  | 55.38      | 48.63      | 52.18      | 46.86  | 11.35 | 49871  | 83488        | 33617         | 1:1.67 | 49134      | 74976        | 25842 | 1:1.53 |
| Paddy                          | Use of chlorantraniliprole to control stem borer                 | PR-<br>113                     | 10 | 4.0  | 58.32      | 53.48      | 56.12      | 50.75  | 15.78 | 50231  | 81374        | 31143         | 1:1.62 | 49543      | 73588        | 24045 | 1:1.48 |
| Commo                          | ercial Crops   |                                |    |      |            |            |            |        |       |        |              |               |        |            |              |       |        |
| sugarc<br>ane                  | Use of<br>chlorantraniliprole to<br>control early shoot<br>borer | Co-<br>0238                    | 10 | 4.0  | 787.<br>34 | 691.6<br>5 | 742.5<br>6 | 673.43 | 10.27 | 131762 | 241332       | 109570        | 1:2.20 | 12634<br>1 | 218865       | 92524 | 1:1.73 |
| Agro F                         | orestry Trees  |                                |    |      |            |            |            |        |       |        |              |               |        |            |              |       |        |
| Eucal<br>yptus                 | Introduction of suitable Eucalyptus species                      |                                | 20 | 10.0 | Cont       |            |            |        |       |        |              |               |        |            |              |       |        |
| Poplar                         | Balanced & proper use of fertilizers                             | G-48                           | 10 | 5.0  | Cont       |            |            |        |       |        |              |               |        |            |              |       |        |
| Seaso<br>nal<br>Veget<br>ables | Nutritional Garden   | Season<br>al<br>Vegeta<br>bles | 05 | 0.5  | 21         | 17         | 19         | 12     | 58.33 | 165    | 1250         | 1085          | 1:7.57 | 100        | 417          | 317   | 1:3.16 |
| Aonla<br>and<br>tomato         | Value addition   |                                | 02 |      | D 11       |            |            |        |       | N      | lo preservat | ion practices | S.     |            | action of ne |       | 1:4.34 |

(Sale Price. Mustard- Rs. 3800/q, Lentil- Rs. 7000/q, Paddy- Rs. 1450/q, Wheat- Rs. 1650/q))

## **Cluster FLDs**

Technology demonstrated during previous year and popularized during 2017-18 and recommended for large scale adoption in the district

|      |                      |   | Details of           | Horizor  | tal spread | of tec | hnology | 7  |
|------|----------------------|---|----------------------|----------|------------|--------|---------|----|
| S. N | Thematic Area        | Technology demonstrated                         | popularization       | No.      | of No.     | of     | Area    | in |
| 5.14 | Thematic Area        | reciniology demonstrated                        | methods suggested to | villages | farmer     | s      | ha      |    |
|      |                      |   | the Extension system |          |            |        |         |    |
| 1    | Varietals evaluation | Replacement of local variety of mustard by Pant | FLD                  | 37       | 163        |        | 51      |    |
|      |                      | Pili Sarson-1                                   |                      |          |            |        |         |    |

**Details of cluster FLDs implemented during 2017-18** 

| Sl.<br>No | Crop    | Thematic area          | Technology Demonstrated | Season<br>and year | Area     | (ha)   |       | of farme<br>nonstratio |       | Reasons for shortfall in achievement |
|-----------|---------|------------------------|-------------------------|--------------------|----------|--------|-------|------------------------|-------|--------------------------------------|
| •         |         |                        |                         | -                  | Proposed | Actual | SC/ST | Others                 | Total |                                      |
| 1         | Mustard | Varietal<br>Evaluation | Pant Pili Sarson-01     | Rabi<br>2017-18    | 10.0     | 10.0   | 4     | 19                     | 23    |                                      |

**Details of farming situation** 

| Crop    | eason        | rming<br>nation<br>Arrigat<br>ed) | il type   |     | Status of s | oil    | evious<br>:rop | wing<br>late | ırvest<br>late |      | o. of<br>ny days |
|---------|--------------|-----------------------------------|-----------|-----|-------------|--------|----------------|--------------|----------------|------|------------------|
|         | S S          | Fai<br>situ<br>(RF,               | Soj       | N   | P           | K      | Pro            | So so        | Ha             | ra ' | N<br>rain        |
| Mustard | Rabi 2017-18 | Irrigated                         | Clay Loam | Low | Low         | Medium | Paddy          | 22.10.17     | 22.02.18       |      |                  |

Technical Feedback on the demonstrated technologies

| S.<br>No | Crops   | Feed Back  |
|----------|---------|--|
| 1        | Mustard | Pant Pili Sarson -1 is better than local varieties in respect of yield and insect & pest diseases. |

### **Performance of Cluster FLD**

|             | Technology                              | Variet                       | No. of Are Otl/ha Vield of local |            | %<br>Incre | Economics of demonstration (Rs./ha) |       |                  |                 | Economics of checks./ha) |                 |               |              |               |                 |                   |              |
|-------------|---|------------------------------|----------------------------------|------------|------------|-------------------------------------|-------|------------------|-----------------|--------------------------|-----------------|---------------|--------------|---------------|-----------------|-------------------|--------------|
| Crop        | <b>Demonstrated</b>                     | y                            | Far<br>me<br>rs                  | a<br>(ha.) | Н          | L                                   | A     | Check<br>Qtl./ha | ase in<br>yield | Gross<br>Cost            | Gross<br>Return | Net<br>Return | BCR<br>(R/C) | Gross<br>Cost | Gross<br>Return | Net<br>Retur<br>n | BCR<br>(R/C) |
| Oilseed     | Crop                                    |                              |                                  |            |            |                                     |       |                  |                 |                          |                 |               |              |               |                 |                   |              |
| Must<br>ard | Replacement of local variety of Mustard | Pant<br>Pili<br>Sarson<br>-1 | 23                               | 10.0       | 18.45      | 14.2                                | 16.48 | 12.42            | 32.69           | 41632                    | 62624           | 21262         | 1:1.56       | 34981         | 47196           | 12215             | 1:1.43       |

(Sale Price- Rs. 3800/q)

## III. TRAINING PROGRAMME

Farmers' Training including sponsored training programmes (on campus)

| Thematic area                                    | No. of  | No. of Participants |        |       |      |        |       |      |           |       |
|--|---------|---------------------|--------|-------|------|--------|-------|------|-----------|-------|
|  | courses |                     | Others |       |      | SC/ST  |       |      | Grand Tot | al    |
|  |         | Male                | Female | Total | Male | Female | Total | Male | Female    | Total |
| I Crop Production                                |         |                     |        |       |      |        |       |      |           |       |
| Weed Management                                  | 02      | 29                  | 04     | 33    | 06   | 01     | 07    | 35   | 05        | 40    |
| Cropping Systems                                 | 01      | 16                  | 01     | 17    | 03   | 00     | 03    | 19   | 01        | 20    |
| Micro Irrigation/irrigation                      | 01      | 14                  | 02     | 16    | 04   | 00     | 04    | 18   | 02        | 20    |
| Nursery management                               | 01      | 17                  | 01     | 18    | 02   | 00     | 02    | 19   | 01        | 20    |
| Total  | 05      | 76                  | 08     | 84    | 15   | 01     | 16    | 91   | 09        | 100   |
| II Horticulture                                  |         |                     |        |       |      |        |       |      |           |       |
| III Soil Health and Fertility Management         |         |                     |        |       |      |        |       |      |           |       |
| Soil fertility management                        | 01      | 17                  | 01     | 18    | 02   | 00     | 02    | 19   | 01        | 20    |
| Integrated Nutrient Management                   |         |                     |        |       |      |        |       |      |           |       |
| Balance use of fertilizers                       |         |                     |        |       |      |        |       |      |           |       |
| Total  | 01      | 17                  | 01     | 18    | 02   | 00     | 02    | 19   | 01        | 20    |
| IV Livestock Production and                      |         |                     |        |       |      |        |       |      |           |       |
| Management                                       |         |                     |        |       |      |        |       |      |           |       |
| V Agril. Engineering                             |         |                     |        |       |      |        |       |      |           |       |
| VI Home Science/Women empowerment                |         |                     |        |       |      |        |       |      |           |       |
| Household food security through nutrition        | 02      |                     | 25     | 25    |      | 05     | 05    |      | 40        | 40    |
| gardening  Design and development of law/minimum | 02      | -                   | 35     | 35    | -    | 05     | 05    | -    | 40        | 40    |
| Design and development of low/minimum cost diet  |         |                     |        |       |      |        |       |      |           |       |
| Designing and development for high nutrient      |         |                     |        |       |      |        |       |      |           |       |
| efficiency diet                                  | 01      |                     | 17     | 17    |      | 03     | 03    |      | 20        | 20    |
| Minimization of nutrient losses in               | 01      | -                   | 17     | 1/    | -    | 03     | 03    | -    | 20        | 20    |
| Processing and cooking                           |         |                     |        |       |      |        |       |      |           |       |
| Gender mainstreaming through SHGs                |         |                     |        |       |      |        |       |      |           |       |
| Storage loss minimization techniques             |         |                     |        |       |      |        |       |      |           |       |
| Value addition                                   | 02      |                     | 17     | 17    |      | 03     | 03    |      | 20        | 20    |
| Women empowerment                                | 01      |                     | 18     | 18    | _    | 02     | 02    | _    | 20        | 20    |
| Location specific drudgery reduction             | 01      |                     | 10     | 10    |      | 02     | 02    |      | 20        | 20    |
| technologies                                     |         |                     |        |       |      |        |       |      |           |       |
| Rural Crafts                                     |         |                     |        |       |      |        |       |      |           |       |
| Women and child care                             | 01      | -                   | 16     | 16    | _    | 04     | 04    | _    | 20        | 20    |
| Others (pl specify)                              |         |                     |        |       |      |        |       |      |           |       |
| Total  | 05      | -                   | 86     | 86    | -    | 14     | 14    | -    | 100       | 100   |
| VII Plant Protection                             |         |                     |        |       |      |        |       |      |           |       |
| Integrated Pest Management                       | 02      | 31                  | 04     | 35    | 04   | 01     | 05    | 35   | 05        | 40    |
| Integrated Disease Management                    | 02      | 33                  | 01     | 34    | 05   | 01     | 06    | 38   | 02        | 40    |
| Bio-control of pests and diseases                | 01      | 16                  | 01     | 17    | 03   | 00     | 03    | 19   | 01        | 20    |
| Production of bio control agents and bio         |         |                     |        |       |      |        |       |      |           |       |
| pesticides                                       | 01      | 15                  | 01     | 16    | 03   | 01     | 04    | 18   | 02        | 20    |
| Total  | 06      | 95                  | 07     | 102   | 15   | 03     | 18    | 110  | 10        | 120   |
| IX Production of Inputs at site                  |         |                     |        |       |      |        |       |      |           |       |
| Seed Production                                  | 01      | 14                  | 03     | 17    | 03   | 00     | 03    | 17   | 03        | 20    |
| Vermi-compost production                         | 01      | 15                  | 01     | 16    | 04   | 00     | 04    | 19   | 01        | 20    |
| Total  | 02      | 29                  | 04     | 33    | 07   | 00     | 07    | 36   | 04        | 40    |
| X Capacity Building and Group Dynamics           |         |                     |        |       |      |        |       |      |           |       |
| Leadership development                           | 01      | 15                  | 02     | 17    | 03   | 00     | 03    | 18   | 02        | 20    |
| Group dynamics                                   | 01      | 15                  | 01     | 16    | 04   | 00     | 04    | 19   | 01        | 20    |
| Formation and Management of SHGs                 | 01      | 16                  | 02     | 18    | 02   | 00     | 02    | 18   | 02        | 20    |
| Total  | 03      | 46                  | 05     | 51    | 09   | 00     | 09    | 55   | 05        | 60    |
| XI Agro-forestry                                 |         |                     |        |       |      |        |       |      |           |       |
| Production technologies                          | 02      | 31                  | 04     | 35    | 04   | 01     | 05    | 35   | 05        | 40    |
| Nursery management                               | 01      | 15                  | 01     | 16    | 04   | 00     | 04    | 19   | 01        | 20    |
| Integrated Farming Systems                       | 01      | 14                  | 04     | 18    | 02   | 00     | 02    | 16   | 04        | 20    |
| Total  | 04      | 60                  | 09     | 69    | 10   | 01     | 11    | 70   | 10        | 80    |
| GRAND TOTAL                                      | 26      | 354                 | 123    | 477   | 64   | 19     | 83    | 418  | 142       | 520   |

Farmers' Training including sponsored training programmes (off campus)

| Thematic area  | No. of  |      |        |       | ts       |          |          |             |          |          |  |
|--|---------|------|--------|-------|----------|----------|----------|-------------|----------|----------|--|
|  | courses |      | Others |       |          | SC/ST    |          | Grand Total |          |          |  |
|  |         | Male | Female | Total | Male     | Female   | Total    | Male        | Female   | Total    |  |
| I Crop Production  |         |      |        |       |          |          |          |             |          |          |  |
| Weed Management  | 02      | 31   | 03     | 34    | 05       | 01       | 06       | 36          | 04       | 40       |  |
| Resource Conservation Technologies                                 | 01      | 18   | 00     | 18    | 02       | 00       | 02       | 20          | 00       | 20       |  |
| Cropping Systems   | 02      | 33   | 02     | 35    | 05       | 00       | 05       | 38          | 02       | 40       |  |
| Crop Diversification   | 01      | 17   | 00     | 17    | 03       | 00       | 03       | 20          | 00       | 20       |  |
| Integrated Farming   | 02      | 34   | 01     | 35    | 05       | 00       | 05       | 39          | 01       | 40       |  |
| Micro Irrigation/irrigation  | 01      | 14   | 01     | 15    | 04       | 01       | 05       | 15          | 05       | 20       |  |
| Nursery management   | 01      | 15   | 01     | 16    | 04       | 00       | 04       | 19          | 01       | 20       |  |
| Integrated Crop Management   | 01      | 17   | 01     | 18    | 02       | 00       | 02       | 19          | 01       | 20       |  |
| Soil & water conservation  | 01      | 15   | 02     | 17    | 03       | 00       | 03       | 18          | 02       | 20       |  |
| Total  | 12      | 211  | 12     | 223   | 10       | 02       | 12       | 226         | 14       | 240      |  |
| II Horticulture  |         |      |        |       |          |          |          |             |          |          |  |
| III Soil Health and Fertility Management                           |         |      |        |       |          |          |          |             |          |          |  |
| Soil fertility management  | 01      | 14   | 02     | 16    | 03       | 01       | 04       | 17          | 03       | 20       |  |
| Integrated water management  | 01      | 16   | 01     | 17    | 03       | 00       | 03       | 19          | 01       | 20       |  |
| Integrated Nutrient Management                                     | 01      | 15   | 05     | 20    | 0        | 00       | 00       | 35          | 05       | 20       |  |
| Total  | 03      | 63   | 13     | 76    | 22       | 02       | 24       | 85          | 15       | 60       |  |
| IV Livestock Production and  |         |      |        |       |          |          |          |             |          |          |  |
| Management   |         |      |        |       |          |          |          |             |          |          |  |
| VI Agril. Engineering  |         |      |        |       |          |          |          |             |          |          |  |
| V Home Science/Women empowerment                                   |         |      |        |       |          |          |          |             |          |          |  |
| Household food security by kitchen                                 |         |      |        |       |          |          |          |             |          |          |  |
| gardening and nutrition gardening                                  | 02      | -    | 36     | 36    | -        | 04       | 04       | -           | 40       | 40       |  |
| Design and development of low/minimum cost diet                    |         |      |        |       |          |          |          |             |          |          |  |
| Designing and development for high nutrient                        |         |      |        |       |          |          |          |             |          |          |  |
| efficiency diet  | 02      | -    | 35     | 35    | -        | 05       | 05       | -           | 40       | 40       |  |
| Minimization of nutrient loss in processing                        |         |      |        |       |          |          |          |             |          |          |  |
| Processing and cooking   |         |      |        |       |          |          |          |             |          |          |  |
| Gender mainstreaming through SHGs                                  | 01      | -    | 17     | 17    | -        | 03       | 03       | -           | 20       | 20       |  |
| Storage loss minimization techniques                               |         |      |        |       |          |          |          |             |          |          |  |
| Value addition   | 02      | -    | 36     | 36    | -        | 04       | 04       | -           | 40       | 40       |  |
| Women empowerment  | 01      |      | 17     | 17    | -        | 03       | 03       | -           | 20       | 20       |  |
| Location specific drudgery reduction                               |         |      |        |       |          |          |          |             |          |          |  |
| technologies   | 02      | -    | 35     | 35    | -        | 05       | 05       | -           | 40       | 40       |  |
| Rural Crafts   | 01      | -    | 18     | 18    | -        | 02       | 02       | -           | 20       | 20       |  |
| Women and child care   | 02      |      | 34     | 34    | -        | 06       | 06       | -           | 40       | 40       |  |
| Others (pl specify)  |         |      |        |       |          |          |          |             |          |          |  |
| Total  | 13      |      | 228    | 228   |          | 32       | 32       |             | 260      | 260      |  |
| VII Plant Protection   |         |      |        |       |          |          |          |             |          |          |  |
| Integrated Pest Management   | 06      | 82   | 07     | 89    | 29       | 02       | 31       | 111         | 09       | 120      |  |
| Integrated Disease Management                                      | 04      | 63   | 05     | 68    | 12       | 00       | 12       | 75          | 05       | 80       |  |
| Bio-control of pests and diseases                                  | 03      | 48   | 03     | 51    | 08       | 01       | 09       | 56          | 04       | 60       |  |
| Production of bio control agents and bio                           |         |      |        |       |          |          |          |             |          |          |  |
| pesticides   | 02      | 33   | 02     | 35    | 05       | 00       | 05       | 38          | 02       | 40       |  |
| Total  | 15      | 226  | 17     | 243   | 54       | 03       | 57       | 280         | 20       | 300      |  |
| IX Production of Inputs at site                                    |         |      |        |       |          |          |          |             |          |          |  |
| Seed Production  | 02      | 34   | 03     | 37    | 03       | 00       | 03       | 37          | 03       | 40       |  |
| Planting material production                                       | 01      | 18   | 00     | 18    | 02       | 00       | 02       | 20          | 00       | 20       |  |
| Vermi-compost production   | 01      | 15   | 01     | 16    | 04       | 00       | 04       | 19          | 01       | 20       |  |
| Total  | 04      | 67   | 04     | 71    | 09       | 00       | 09       | 71          | 09       | 80       |  |
| X Capacity Building and Group<br>Dynamics                          |         |      |        |       |          |          |          |             |          |          |  |
| Leadership development   | 01      | 29   | 03     | 32    | 08       | 00       | 08       | 37          | 03       | 40       |  |
| Group dynamics   | 01      | 36   | 02     | 38    | 02       | 00       | 02       | 38          | 02       | 40       |  |
|  | 01      |      |        |       |          |          |          |             |          |          |  |
|  | 02      | 43   | 09     | 52    | 06       | 02       | 08       | 49          | 11       | 60       |  |
| Formation and Management of SHGs<br>Mobilization of social capital |         |      |        |       | 06<br>03 | 02<br>00 | 08<br>03 | 49<br>20    | 11<br>00 | 60<br>20 |  |

| farmers/youths             |    |     |     |      |     |    |     |     |     |      |
|----------------------------|----|-----|-----|------|-----|----|-----|-----|-----|------|
| WTO and IPR issues         | 01 | 18  | 01  | 19   | 01  | 00 | 01  | 19  | 01  | 20   |
| Total                      | 7  | 159 | 15  | 174  | 24  | 02 | 26  | 183 | 17  | 140  |
| XI Agro-forestry           |    |     |     |      |     |    |     |     |     |      |
| Production technologies    | 05 | 74  | 07  | 81   | 16  | 03 | 19  | 90  | 10  | 100  |
| Nursery management         | 05 | 71  | 08  | 79   | 19  | 02 | 21  | 90  | 10  | 100  |
| Integrated Farming Systems | 04 | 59  | 05  | 64   | 12  | 04 | 16  | 71  | 09  | 80   |
| Total                      | 14 | 204 | 20  | 224  | 47  | 09 | 56  | 251 | 29  | 280  |
| GRAND TOTAL                | 68 | 804 | 312 | 1116 | 194 | 50 | 244 | 998 | 362 | 1360 |

 $Farmers'\ Training\ including\ sponsored\ training\ programmes-CONSOLIDATED\ (On+Off\ campus)$ 

| Thematic area No. of Participants        |         |      |        |       |      |        |       |      |            |       |
|--|---------|------|--------|-------|------|--------|-------|------|------------|-------|
|  | courses |      | Others |       |      | SC/ST  |       | (    | Frand Tota | al    |
|  |         | Male | Female | Total | Male | Female | Total | Male | Female     | Total |
| I Crop Production                        |         |      |        |       |      |        |       |      |            |       |
| Weed Management                          | 04      | 60   | 07     | 67    | 11   | 02     | 13    | 71   | 09         | 80    |
| Resource Conservation Technologies       | 01      | 18   | 00     | 18    | 02   | 00     | 02    | 20   | 00         | 20    |
| Cropping Systems                         | 03      | 49   | 03     | 52    | 08   | 00     | 08    | 57   | 03         | 60    |
| Crop Diversification                     | 01      | 17   | 00     | 17    | 03   | 00     | 03    | 20   | 00         | 20    |
| Integrated Farming                       | 02      | 34   | 01     | 35    | 05   | 00     | 05    | 39   | 01         | 40    |
| Micro Irrigation/irrigation              | 03      | 45   | 04     | 51    | 10   | 01     | 11    | 55   | 05         | 60    |
| Nursery management                       | 02      | 32   | 02     | 34    | 06   | 00     | 06    | 38   | 02         | 40    |
| Integrated Crop Management               | 01      | 17   | 01     | 18    | 02   | 00     | 02    | 19   | 01         | 20    |
| Soil & water conservatioin               | 01      | 15   | 02     | 17    | 03   | 00     | 03    | 18   | 02         | 20    |
| Total                                    | 18      | 287  | 20     | 307   | 50   | 03     | 53    | 337  | 23         | 360   |
| II Horticulture                          |         |      |        |       |      |        |       |      |            |       |
| III Soil Health and Fertility Management |         |      |        |       |      |        |       |      |            |       |
| Soil fertility management                | 02      | 31   | 03     | 34    | 05   | 01     | 06    | 36   | 04         | 40    |
| Integrated water management              | 01      | 06   | 01     | 17    | 03   | 00     | 03    | 19   | 01         | 20    |
| Integrated Nutrient Management           | 03      | 47   | 05     | 52    | 08   | 00     | 08    | 55   | 05         | 60    |
| Total                                    | 06      | 84   | 09     | 103   | 16   | 01     | 17    | 110  | 10         | 120   |
| IV Livestock Production and              |         |      |        |       |      |        |       |      |            |       |
| Management                               |         |      |        |       |      |        |       |      |            |       |
| V Agril. Engineering                     |         |      |        |       |      |        |       |      |            |       |
| VIHome Science/Women empowerment         |         |      |        |       |      |        |       |      |            |       |
| Household food security by kitchen       |         |      |        |       |      |        |       |      |            |       |
| gardening and nutrition gardening        | 02      | _    | 34     | 34    | _    | 06     | 06    | _    | 40         | 40    |
| Design and development of low/minimum    |         |      |        |       |      |        |       |      |            |       |
| cost diet                                | 02      | -    | 32     | 32    | _    | 08     | 08    | _    | 40         | 40    |
| Gender mainstreaming through SHGs        | 01      | -    | 17     | 17    | _    | 03     | 03    | _    | 20         | 20    |
| Value addition                           | 02      | -    | 36     | 36    | _    | 04     | 04    | _    | 40         | 40    |
| Women empowerment                        | 02      | -    | 35     | 35    | -    | 05     | 05    | -    | 40         | 40    |
| Location specific drudgery reduction     |         |      |        |       |      |        |       |      |            |       |
| technologies                             | 02      | -    | 35     | 35    | _    | 05     | 05    | _    | 40         | 40    |
| Rural Crafts                             | 01      | -    | 18     | 18    | _    | 02     | 02    | _    | 20         | 20    |
| Women and child care                     | 02      | -    | 30     | 30    | -    | 10     | 10    | -    | 40         | 40    |
| Total                                    | 14      |      | 237    | 237   |      | 43     | 43    |      | 280        | 280   |
| VII Plant Protection                     |         |      |        |       |      |        |       |      |            |       |
| Integrated Pest Management               | 08      | 113  | 11     | 124   | 33   | 03     | 36    | 146  | 14         | 160   |
| Integrated Disease Management            | 06      | 96   | 06     | 102   | 17   | 01     | 18    | 113  | 07         | 120   |
| Bio-control of pests and diseases        | 04      | 64   | 04     | 68    | 11   | 01     | 12    | 75   | 05         | 80    |
| Production of bio control agents and bio |         |      |        |       |      |        |       |      |            |       |
| pesticides                               | 03      | 48   | 03     | 51    | 08   | 01     | 09    | 56   | 04         | 60    |
| Others (pl specify)                      |         |      |        |       |      |        |       |      |            |       |
| Total                                    | 21      | 321  | 24     | 345   | 69   | 06     | 75    | 390  | 30         | 420   |
| IX Production of Inputs at site          |         |      |        | -     |      |        | -     |      |            |       |
| Seed Production                          | 05      | 82   | 09     | 91    | 09   | 00     | 09    | 91   | 09         | 100   |
| Planting material production             | 01      | 18   | 00     | 18    | 02   | 00     | 02    | 20   | 00         | 20    |
| Vermi-compost production                 | 02      | 30   | 02     | 32    | 08   | 00     | 08    | 38   | 02         | 40    |
| Total                                    | 08      | 130  | 11     | 141   | 19   | 00     | 19    | 149  | 11         | 160   |
| X Capacity Building and Group            |         |      |        |       |      |        |       |      |            | 100   |

| Dynamics                         |    |      |     |      |     |    |     |      |     |      |
|----------------------------------|----|------|-----|------|-----|----|-----|------|-----|------|
| Leadership development           | 03 | 44   | 05  | 49   | 11  | 00 | 11  | 55   | 05  | 60   |
| Group dynamics                   | 03 | 51   | 03  | 54   | 06  | 00 | 06  | 57   | 03  | 60   |
| Formation and Management of SHGs | 04 | 61   | 09  | 70   | 08  | 02 | 10  | 69   | 11  | 80   |
| Mobilization of social capital   | 01 | 17   | 00  | 17   | 03  | 00 | 03  | 20   | 00  | 20   |
| Entrepreneurial development of   |    |      |     |      |     |    |     |      |     |      |
| farmers/youths                   | 01 | 16   | 00  | 16   | 04  | 00 | 04  | 20   | 00  | 20   |
| WTO and IPR issues               | 01 | 18   | 01  | 19   | 01  | 00 | 01  | 19   | 01  | 20   |
| Total                            | 13 | 205  | 18  | 225  | 33  | 2  | 35  | 240  | 20  | 260  |
| XI Agro-forestry                 |    |      |     |      |     |    |     |      |     |      |
| Production technologies          | 07 | 105  | 11  | 116  | 20  | 04 | 24  | 125  | 15  | 140  |
| Nursery management               | 06 | 86   | 09  | 95   | 23  | 02 | 25  | 109  | 11  | 120  |
| Integrated Farming Systems       | 05 | 73   | 09  | 82   | 14  | 04 | 18  | 87   | 13  | 100  |
| Total                            | 18 | 264  | 29  | 293  | 57  | 10 | 67  | 321  | 39  | 360  |
| GRAND TOTAL                      | 94 | 1408 | 433 | 1841 | 258 | 69 | 327 | 1478 | 402 | 1880 |

#### Training for Rural Youths including sponsored training programmes (On campus)

|                              | No of   | No. of Participants |         |       |      |        |       |             |        |       |  |  |  |  |
|------------------------------|---------|---------------------|---------|-------|------|--------|-------|-------------|--------|-------|--|--|--|--|
| Area of training             | Courses |                     | General |       |      | SC/ST  |       | Grand Total |        |       |  |  |  |  |
|                              | Courses | Male                | Female  | Total | Male | Female | Total | Male        | Female | Total |  |  |  |  |
| Nursery Management of crops  | 01      | 08                  | 00      | 08    | 02   | 00     | 02    | 10          | 00     | 10    |  |  |  |  |
| Integrated farming           | 01      | 07                  | 01      | 08    | 02   | 00     | 02    | 09          | 01     | 10    |  |  |  |  |
| Seed production              | 02      | 15                  | 00      | 15    | 05   | 00     | 05    | 20          | 00     | 20    |  |  |  |  |
| Production of organic inputs | 01      | 09                  | 00      | 09    | 01   | 00     | 01    | 10          | 00     | 10    |  |  |  |  |
| Planting material production | 02      | 16                  | 00      | 16    | 04   | 00     | 04    | 20          | 00     | 20    |  |  |  |  |
| Tailoring and Stitching      | 02      | 0                   | 17      | 17    | 0    | 03     | 03    | 0           | 20     | 20    |  |  |  |  |
| Any other (pl.specify)       |         |                     |         |       |      |        |       |             |        |       |  |  |  |  |
| TOTAL                        | 09      | 55                  | 18      | 73    | 14   | 03     | 17    | 69          | 21     | 90    |  |  |  |  |

## Training programmes for Extension Personnel including sponsored training programmes (on campus)

| Area of training                               | No. of<br>Courses | Courses |        |       |      |        |       |      |            |       |  |  |
|--|-------------------|---------|--------|-------|------|--------|-------|------|------------|-------|--|--|
|  |                   | General |        |       |      | SC/ST  |       | (    | Frand Tota |       |  |  |
|  |                   | Male    | Female | Total | Male | Female | Total | Male | Female     | Total |  |  |
| Productivity enhancement in field crops        | 4                 | 72      | 0      | 72    | 8    | 0      | 8     | 80   | 0          | 80    |  |  |
| Integrated Pest Management                     | 8                 | 147     | 0      | 147   | 13   | 0      | 13    | 160  | 0          | 160   |  |  |
| Integrated Nutrient management                 | 1                 | 17      | 0      | 17    | 3    | 0      | 3     | 20   | 0          | 20    |  |  |
| Protected cultivation technology               | 1                 | 16      | 0      | 16    | 4    | 0      | 4     | 20   | 0          | 20    |  |  |
| Production and use of organic inputs           | 2                 | 32      | 0      | 32    | 8    | 0      | 8     | 40   | 0          | 40    |  |  |
| Women and Child care                           | 5                 | 0       | 77     | 77    | 0    | 23     | 23    | 0    | 100        | 100   |  |  |
| Gender mainstreaming through SHGs              | 2                 | 0       | 28     | 28    | 0    | 12     | 12    | 0    | 40         | 40    |  |  |
| Formation and Management of SHGs               | 1                 | 14      | 0      | 14    | 6    | 0      | 6     | 20   | 0          | 20    |  |  |
| Group Dynamics and farmers organization        | 1                 | 12      | 2      | 14    | 5    | 1      | 6     | 17   | 3          | 20    |  |  |
| Information networking among farmers           | 1                 | 15      | 0      | 15    | 5    | 0      | 5     | 20   | 0          | 20    |  |  |
| Capacity building for ICT application          | 1                 | 18      | 0      | 18    | 2    | 0      | 2     | 20   | 0          | 20    |  |  |
| Household food security                        | 1                 | 0       | 17     | 17    | 0    | 3      | 3     | 0    | 20         | 20    |  |  |
| Low cost and nutrient efficient diet designing | 2                 | 0       | 34     | 34    | 0    | 6      | 6     | 0    | 40         | 40    |  |  |
| Agro Forestry                                  | 6                 | 98      | 0      | 98    | 22   | 0      | 22    | 120  | 0          | 120   |  |  |
| TOTAL  | 36                | 441     | 158    | 599   | 76   | 45     | 121   | 517  | 203        | 720   |  |  |

Table. Sponsored training programmes

|   | No. of<br>Courses |      |         |       | No.  | of Particip | ants  |             |        |       |
|---|-------------------|------|---------|-------|------|-------------|-------|-------------|--------|-------|
| Area of training                                |                   |      | General |       |      | SC/ST       |       | Grand Total |        |       |
|   |                   | Male | Female  | Total | Male | Female      | Total | Male        | Female | Total |
|   |                   |      |         |       |      |             |       |             |        |       |
| Crop production and management                  |                   |      |         |       |      |             |       |             |        |       |
| Increasing production and productivity of crops | 43                | 2332 | 231     | 2563  | 536  | 34          | 570   | 2868        | 265    | 3133  |
| Commercial production of vegetables             | 10                | 672  | 98      | 770   | 188  | 17          | 205   | 860         | 115    | 975   |
| Total   | 53                | 3004 | 329     | 3333  | 724  | 51          | 775   | 3728        | 380    | 4108  |
| Production and value addition                   |                   |      |         |       |      |             |       |             |        |       |
| Fruit Plants                                    | 2                 | 139  | 12      | 151   | 39   | 5           | 44    | 178         | 17     | 195   |
| Soil health and fertility management            | 15                | 876  | 78      | 954   | 99   | 32          | 131   | 975         | 110    | 1085  |
| Production of Inputs at site                    | 2                 | 178  | 19      | 197   | 58   | 11          | 69    | 236         | 30     | 266   |
| Methods of protective cultivation               | 1                 | 67   | 11      | 78    | 23   | 2           | 25    | 90          | 13     | 103   |
| Total   | 20                | 1260 | 120     | 1380  | 219  | 50          | 269   | 1479        | 170    | 1649  |
| Post harvest technology and value addition      |                   |      |         |       |      |             |       |             |        |       |
| Processing and value addition                   | 2                 | 132  | 21      | 153   | 36   | 5           | 41    | 168         | 26     | 194   |
| Total   | 2                 | 132  | 21      | 153   | 36   | 5           | 41    | 168         | 26     | 194   |
| Farm machinery                                  |                   |      |         |       |      |             |       |             |        |       |
| Farm machinery, tools and implements            | 5                 | 261  | 22      | 283   | 56   | 9           | 65    | 317         | 31     | 348   |
| Total   | 5                 | 261  | 22      | 283   | 56   | 9           | 65    | 317         | 31     | 348   |
| Livestock and fisheries                         |                   |      |         |       |      |             |       |             |        |       |
| Livestock production and management             | 9                 | 535  | 59      | 594   | 139  | 22          | 161   | 674         | 81     | 755   |
| Animal Nutrition Management                     | 10                | 578  | 89      | 667   | 153  | 19          | 172   | 731         | 108    | 839   |
| Animal Disease Management                       | 4                 | 176  | 12      | 188   | 31   | 2           | 33    | 207         | 14     | 221   |
| Total   | 23                | 1289 | 160     | 1449  | 323  | 43          | 366   | 1612        | 203    | 1815  |
| Agricultural Extension                          |                   |      |         |       |      |             |       |             |        |       |
| Capacity Building and Group Dynamics            | 2                 | 79   | 5       | 84    | 23   | 2           | 25    | 102         | 7      | 109   |
| Total   | 2                 | 79   | 5       | 84    | 23   | 2           | 25    | 102         | 7      | 109   |
| GRAND TOTAL                                     | 105               | 6025 | 657     | 6682  | 1381 | 160         | 1541  | 7406        | 817    | 8223  |

Name of sponsoring agencies involved- Ag. Deptt & ATMA, Pbt , Sugarcane Development Department , NABARD, Dainik Jagran, Pilibhit, IDE India, Pbt, Dhanuka Agritech Ltd., Pilibhit, BOB, RSETI, Pilibhit, Suchetna Gramin Seva Samiti, NFL, Bank of Baroda, Pilibhit, Fisheries Deptt., Pilibhit, Ganna Kisan Sansthan, Shahjahanpur, RLS Govt. Girls College, Pahal Gramin Seva Samiti, Plant Protection Deptt

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

|                              | No. of            | No. of Participants |         |       |      |        |       |      |                    |       |  |  |  |  |
|------------------------------|-------------------|---------------------|---------|-------|------|--------|-------|------|--------------------|-------|--|--|--|--|
| Area of training             | No. of<br>Courses |                     | General |       |      | SC/ST  |       |      | <b>Grand Total</b> |       |  |  |  |  |
| _                            | Courses           | Male                | Female  | Total | Male | Female | Total | Male | Female             | Total |  |  |  |  |
| Nursery Management of        | 01                | 08                  | 00      | 08    | 02   | 00     | 02    | 10   | 00                 | 10    |  |  |  |  |
| Horticulture crops           |                   |                     |         |       |      |        |       |      |                    |       |  |  |  |  |
| Integrated farming           | 01                | 07                  | 01      | 08    | 02   | 00     | 02    | 09   | 01                 | 10    |  |  |  |  |
| Seed production              | 02                | 15                  | 00      | 15    | 05   | 00     | 05    | 20   | 00                 | 20    |  |  |  |  |
| Production of organic inputs | 01                | 09                  | 00      | 09    | 01   | 00     | 01    | 10   | 00                 | 10    |  |  |  |  |
| Planting material production | 02                | 16                  | 00      | 16    | 04   | 00     | 04    | 20   | 00                 | 20    |  |  |  |  |
| Tailoring and Stitching      | 02                | 0                   | 17      | 17    | 0    | 03     | 03    | 0    | 20                 | 20    |  |  |  |  |
| Any other (pl.specify)       |                   |                     |         |       |      |        |       |      |                    | •     |  |  |  |  |
| TOTAL                        | 09                | 55                  | 18      | 73    | 14   | 03     | 17    | 69   | 21                 | 90    |  |  |  |  |

## **IV. Extension Programmes**

| Activities        | No. of programmes | No. of farmers | No. of<br>Extension<br>Personnel | TOTAL |
|-------------------|-------------------|----------------|----------------------------------|-------|
| Advisory Services | 895               | 1506           | 35                               | 1541  |
| Diagnostic visits | 18                | 172            | 15                               | 187   |

| Field Day                          | 22   | 560   | 40  | 600   |
|------------------------------------|------|-------|-----|-------|
| Group discussions                  | 25   | 405   | 10  | 415   |
| Kisan Goshthi                      | 45   | 3000  | 55  | 3055  |
| Film Show                          |      |       |     |       |
| Self -help groups                  | 02   | 32    | 00  | 32    |
| Kisan Mela                         | 08   | 1400  | 50  | 1450  |
| Exhibition                         | 08   | 950   | 50  | 1000  |
| Scientists' visit to farmers field | 790  | 1100  | 40  | 1140  |
| Plant/animal health camps          | 01   | 100   | 05  | 105   |
| Farm Science Club                  | 02   | 69    | 4   | 73    |
| Ex-trainees Sammelan               |      |       |     |       |
| Farmers' seminar/workshop          | 02   | 100   | 2   | 102   |
| Method Demonstrations              | 4    | 23    | 2   | 25    |
| Celebration of important days      | 02   | 90    | 7   | 97    |
| Special day celebration            | 04   | 400   | 50  | 450   |
| Exposure visits                    | 06   | 300   | 20  | 320   |
| Others (pl. specify)               |      |       |     |       |
| Total                              | 1834 | 10207 | 385 | 10552 |

**Details of other extension programmes** 

| Particulars                                    | Number |
|--|--------|
| Electronic Media (CD./DVD)                     | 06     |
| Extension Literature                           | 10     |
| News paper coverage                            | 83     |
| Popular articles                               | 08     |
| Technical Reports                              | 04     |
| Radio Talks                                    | 14     |
| TV Talks                                       | 01     |
| Animal health amps (Number of animals treated) |        |
| Others (pl. specify)                           |        |
| Total  | 126    |

**Mobile Advisory Services** 

|                |                             | Type of Messages |               |         |                |                    |                         |       |
|----------------|-----------------------------|------------------|---------------|---------|----------------|--------------------|-------------------------|-------|
| Name of<br>KVK | Message Type                | Crop             | Livestoc<br>k | Weather | Marke<br>-ting | Awar<br>e-<br>ness | Other<br>enterpri<br>se | Total |
|                | Text only                   | 23               |               | 3       | 2              | 4                  | 5                       | 37    |
| Pilibhit       | Voice only                  | 32               |               | 2       | 1              |                    |                         | 35    |
|                | Voice & Text both           |                  |               |         |                |                    |                         |       |
|                | Total Messages              | 55               |               | 5       | 3              | 4                  | 5                       | 72    |
|                | Total farmers<br>Benefitted | 2567             |               | 245     | 134            | 187                | 247                     | 813   |

## V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

| Number of KVKs<br>organised<br>Technology Week | Types of Activities                      | No. of<br>Activitie | Number of<br>Participant<br>s | Related crop/livestock technology |
|--|--|---------------------|-------------------------------|-----------------------------------|
| Technology Week                                | Gosthies                                 | S                   | 8                             |                                   |
|  |  |                     |                               |                                   |
|  | Lectures organised                       |                     |                               |                                   |
|  | Exhibition                               |                     |                               |                                   |
|  | Film show                                |                     |                               |                                   |
|  | Fair                                     |                     |                               |                                   |
|  | Farm Visit                               |                     |                               |                                   |
|  | Diagnostic Practicals                    |                     |                               |                                   |
|  | Distribution of Literature (No.)         |                     |                               |                                   |
|  | Distribution of Seed (q)                 |                     |                               |                                   |
|  | Distribution of Planting materials (No.) |                     |                               |                                   |
|  | Bio Product distribution (Kg)            |                     |                               |                                   |
|  | Bio Fertilizers (q)                      |                     |                               |                                   |
|  | Distribution of fingerlings              |                     |                               |                                   |
|  | Distribution of Livestock specimen       |                     |                               |                                   |
|  | (No.)                                    |                     |                               |                                   |
|  | Total number of farmers visited the      |                     |                               |                                   |
|  | technology week                          |                     |                               |                                   |

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

Production of seeds by the KVKs

| Crop    | Name of the crop | Name of the variety | Name of the<br>hybrid | Quantity of seed (q) | Value<br>(Rs) | Number of farmers |
|---------|------------------|---------------------|-----------------------|----------------------|---------------|-------------------|
| Cereals | Paddy            | PR-113              |                       | 378.00               |               | NSC               |
|         | Wheat            | PBW-343             |                       | 350.00               |               | NSC               |
| Total   |                  |                     |                       | 728.00               |               |                   |

#### Production of planting materials by the KVKs

| Стор           | Name of the crop | Name of the variety   | Name of the hybrid | Number                  | Value (Rs.) | Number of farmers        |
|----------------|------------------|---|--------------------|-------------------------|-------------|--------------------------|
| Forest Species | Poplar           | Bareilly<br>clones, G-48<br>L-Series,<br>S7-Series<br>pp-5, ph-1,<br>ph-2 |                    | 750 ETP( mother plant ) |             | Consumed at KVK Pilibhit |
| Total          |                  |   |                    |                         |             |                          |

#### **Production of Bio-Products**

|               | Name of the bio-product | Quantity |             |                |
|---------------|-------------------------|----------|-------------|----------------|
| Bio Products  |                         | Kg       | Value (Rs.) | No. of Farmers |
|               | Trichoderma harzianum   |          |             |                |
| Bio-fungicide | Beauveria bassiana      | 55.0     | -           | -              |

**Table: Production of livestock materials** 

| Particulars of Live stock | Name of the breed | Number | Value (Rs.) | No. of Farmers |
|---------------------------|-------------------|--------|-------------|----------------|
| Total                     |                   |        |             |                |

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

| Samples | No. of Samples | No. of Farmers | No. of Villages | Amount realized (Rs.) |
|---------|----------------|----------------|-----------------|-----------------------|
| Total   | 355            | 355            | 35              |                       |

#### VIII. SCIENTIFIC ADVISORY COMMITTEE

| Name of KVK  | Number of SACs conducted |
|--------------|--------------------------|
| KVK Pilibhit | 01                       |

### IX. NEWSLETTER

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

#### X. PUBLICATIONS

| Category            | Number |
|---------------------|--------|
| Research Paper      | 04     |
| Technical bulletins | 02     |
| Technical reports   | 06     |
| Abstracts           | 12     |

### **Technology identified for Dissemination**

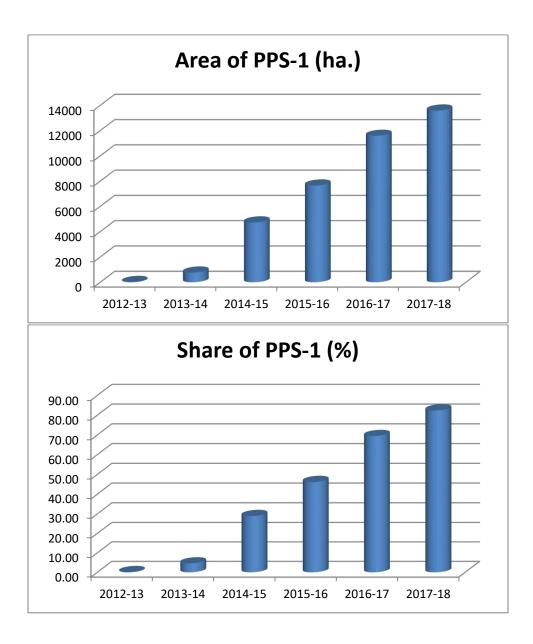
### Pant Pili Sarson – 1 Identified by KVK Pilibhit

**Need of the district-** In Pilibhit district mustard/ toria is sown at approximately 16500 ha. area . Here most of the mustard is sown after harvesting of paddy and followed by sugarcane crop. The conventional toria varieties like PT-303 and PT-507 were sown by the farmers, which did not fetch good profit to the farmers. The toria varieties perform well if they are sown upto 20 September but it could not be done as the harvesting of paddy is done upto 15 November in the district. The late sowing of toria varieties could npt give good yield of the crops.

So the farmers needed a mustard variety of short duration so that it could fit between the paddy and sugarcane crop in the district. KVK Pilibhit identified and introduced Pant Pili Sarson-1 variety in Rabi 2012-13 season through Front line demonstrations. It soon gained the popularity and the area of the variety is increasing year after year giving farmers a good crop as well as profit.

Table: Area expansion of the mustard variety PPS-1 in district Pilibhit

| Year    | Area of Mustard/ Toria (ha.) | Area of PPS-1 (ha.) | Share of PPS-1 (%) |
|---------|------------------------------|---------------------|--------------------|
| 2012-13 | 16683                        | 20                  | 0.12               |
| 2013-14 | 16572                        | 762                 | 4.60               |
| 2014-15 | 16334                        | 4723                | 28.92              |
| 2015-16 | 16562                        | 7645                | 46.16              |
| 2016-17 | 16683                        | 11581               | 69.42              |
| 2017-18 | 16481                        | 13582               | 82.41              |



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

XII. INTERVENTIONS ON DROUGHT MITIGATION - NA

XIII. DETAILS ON HRD ACTIVITIES – NA

XIV. CASE STUDIES (CASE STUDIES MAY BE GIVEN IN DETAI AS PER THE FOLLOWING FORMAT): N.A.

XIV. AGRICULTURAL TECHNOLOGY INFORMATION CENTRE: N.A.

XV. TECHNOLOGICAL BACKSTOPPING BY DIRECTORATES OF EXTENSION: N.A.

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