# Krishi Vigyan Kendra, Nagina (Bijnor) ANNUAL REPORT (January to December, 2023)

# (January to December, 2023) APR SUMMARY

| 1. Training Programmes  |                |      |                    |                    |  |  |  |  |
|-------------------------|----------------|------|--------------------|--------------------|--|--|--|--|
| Clientele               | No. of Courses | Male | Female             | Total participants |  |  |  |  |
| Farmers & Farm women    | 85             | 1278 | 422                | 1700               |  |  |  |  |
| Rural youths            | 8              | 56   | 54                 | 110                |  |  |  |  |
| Extension functionaries | 51             | 943  | 757                | 1700               |  |  |  |  |
| Sponsored Training      | 3              | 56   | 14                 | 70                 |  |  |  |  |
| Vocational Training     |                |      |                    |                    |  |  |  |  |
| Total                   | 147            | 2333 | 12 <mark>47</mark> | 3580               |  |  |  |  |

| 2. Frontline demonstrations |                |          |                      |  |  |  |  |  |
|-----------------------------|----------------|----------|----------------------|--|--|--|--|--|
| Enterprise                  | No. of Farmers | Area(ha) | <b>Units/Animals</b> |  |  |  |  |  |
| Oilseeds                    | 150            | 60.0     |                      |  |  |  |  |  |
| Pulses                      | 163            | 66.0     |                      |  |  |  |  |  |
| Cereals                     | 185            | 55.0     |                      |  |  |  |  |  |
| Vegetables                  | 42             | 5.7      |                      |  |  |  |  |  |
| Other crops (Sugarcane)     | 80             | 23.0     |                      |  |  |  |  |  |
| Hybrid crops                |                |          |                      |  |  |  |  |  |
| Total                       | 620            | 209.7    |                      |  |  |  |  |  |
| Livestock & Fisheries       |                |          |                      |  |  |  |  |  |
| Other enterprises           | 130            | 1.2      |                      |  |  |  |  |  |
| Total                       | 130            | 1.2      |                      |  |  |  |  |  |
| Grand Total                 | 750            | 210.9    |                      |  |  |  |  |  |

#### 3. Technology Assessment & Refinement

| Category            | No. of Technology<br>Assessed | No. of Trials | No. of Farmers |
|---------------------|-------------------------------|---------------|----------------|
| Technology Assessed |                               |               |                |
| Crops               | 10                            | 45            | 45             |
| Livestock           |                               |               |                |
| Various enterprises | 02                            | 10            | 10             |
| Total               | 12                            | 55            | 55             |
| Technology Refined  |                               |               |                |
| Crops               |                               |               |                |
| Livestock           |                               |               |                |
| Various enterprises |                               |               |                |
| Total               |                               |               |                |
|                     | 12                            | 55            | 55             |

| 4. Extension Programmes    |                   |                    |  |  |  |  |  |  |
|----------------------------|-------------------|--------------------|--|--|--|--|--|--|
| Category                   | No. of Programmes | Total Participants |  |  |  |  |  |  |
| Extension activities       | 349               | 52235              |  |  |  |  |  |  |
| Other extension activities | 263               |                    |  |  |  |  |  |  |
| Total                      | 612               | 52235              |  |  |  |  |  |  |

| 5. Mobile Advisory Services |                   |      |                  |         |         |        |            |       |  |
|-----------------------------|-------------------|------|------------------|---------|---------|--------|------------|-------|--|
| Name of                     | Message Type      |      | Type of Messages |         |         |        |            |       |  |
| KVK                         |                   | Crop | Livestock        | Weather | Market- | Aware- | Other      | Total |  |
|                             |                   |      |                  |         | ing     | ness   | enterprise |       |  |
| Nagina                      | Text only         | 80   | -                | -       | -       | 15     | -          | 95    |  |
| (Bijnor)                    | Voice only        | 8    | -                | -       | -       | 05     | -          | 13    |  |
|                             | Voice & Text both | -    | -                | -       | -       | -      | -          | -     |  |
|                             | Total messages    | 88   | -                | -       | -       | 20     | -          | 108   |  |
|                             | Total farmer      | 1800 | -                | -       | -       | 1800   | -          | 3600  |  |
|                             | benefitted        |      |                  |         |         |        |            |       |  |

#### 6. Seed & Planting Material Production

| 8                          |                |           |
|----------------------------|----------------|-----------|
|                            | Quintal/Number | Value Rs. |
| Seed (q)                   | 315.00         |           |
| Planting material (No.)    | 2500           | 750.00    |
| Bio-Products (kg)          | 21430          | 6200      |
| Livestock Production (No.) |                |           |
| Fishery production (No.)   |                |           |

# 7. Soil, water & plant Analysis

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

### 8. HRD and Publications

| ••• |                              |        |                     |  |  |  |  |  |  |
|-----|------------------------------|--------|---------------------|--|--|--|--|--|--|
| SN  | Category                     | Number | No. of Participants |  |  |  |  |  |  |
| 1   | Workshops                    | 05     | 05                  |  |  |  |  |  |  |
| 2   | Conferences                  | 04     | 04                  |  |  |  |  |  |  |
| 3   | Meetings                     | 17     | 02                  |  |  |  |  |  |  |
| 4   | Trainings for KVK officials  | 06     | 06                  |  |  |  |  |  |  |
| 5   | Visits of KVK officials      | 05     | 05                  |  |  |  |  |  |  |
| 6   | Book published               |        |                     |  |  |  |  |  |  |
| 7   | Training Manual              | 04     |                     |  |  |  |  |  |  |
| 8   | Book chapters                |        |                     |  |  |  |  |  |  |
| 9   | Research papers              |        | -                   |  |  |  |  |  |  |
| 10  | Lead papers/ Invites lecture |        | -                   |  |  |  |  |  |  |
| 11  | Seminar papers/Abstract      | 02     |                     |  |  |  |  |  |  |
| 12  | Extension folder             | 25     |                     |  |  |  |  |  |  |
| 13  | Proceedings                  | 01     |                     |  |  |  |  |  |  |
| 14  | Award & recognition          | 01     |                     |  |  |  |  |  |  |
| 15  | Ongoing research projects    | 03     |                     |  |  |  |  |  |  |

# **DETAIL REPORT OF APR (Jan to Dec. 2023)**

### **1. GENERAL INFORMATION ABOUT THE KVK**

| 1.1. Name and address of KVK with phone, fax and e-mail |              |       |                     |  |  |  |  |  |
|---|--------------|-------|---------------------|--|--|--|--|--|
| Address   | Telep        | ohone | Email               |  |  |  |  |  |
|   | Office       | FAX   |                     |  |  |  |  |  |
| KrishiVigyan Kendra,<br>Nagina (Bijnor) (U.P.) - 246762 | 01343-250489 |       | bijnorkvk@gmail.com |  |  |  |  |  |

| 1.2 .Name and address of host organization with phone, fax and e-mail |              |                          |                       |  |  |  |  |  |
|---|--------------|--------------------------|-----------------------|--|--|--|--|--|
| Address   | Tele         | phone                    | Email                 |  |  |  |  |  |
|   | Office       | FAX                      |                       |  |  |  |  |  |
| S.V.P. Univ. of Agri.& Tech.,<br>Meerut (U.P.) 250110                 | 0121-2411511 | 0121-2411511,<br>2411505 | dir.ext@svpuat.edu.in |  |  |  |  |  |

| 1.3. Name of the Head with phone & mobile No |                     |            |                              |  |  |  |  |
|--|---------------------|------------|------------------------------|--|--|--|--|
| Name   | Telephone / Contact |            |                              |  |  |  |  |
|  | Residence           | Mobile     | Email                        |  |  |  |  |
| Dr. Shakuntala Gupta                         |                     | 8630984814 | shakuntalaguptakvk@gmail.com |  |  |  |  |

#### 1.4. Year of sanction

#### FN5 (108)/90 KVK date 22.04.92

FNo. 15(22)/92 Agr. Ext. -1/do Jan. 93



# Map of KVK & district – Bijnor

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| 1.5 | 1.5. Staff Position (as on 31.12.2023) |                              |                                      |                     |                 |                        |                    |                          |               |            |     |                              |
|-----|--|------------------------------|--------------------------------------|---------------------|-----------------|------------------------|--------------------|--------------------------|---------------|------------|-----|------------------------------|
| SN  | Sanctioned<br>Post                     | Name of the incumbent        | Designation                          | Subject             | Pay<br>Scale    | Present<br>Basic (Rs.) | Date of<br>Joining | Permanent /<br>Temporary | Cate-<br>gory | Mobile No. | Age | Email ID                     |
| 1.  | SMS                                    | Dr. Shakuntala<br>Gupta      | Assoc. Director/<br>Assoc. Professor | Home<br>Science     | 37400-<br>67000 | 1,66,400               | 09.12.03           | Permanent                | OBC           | 8630984814 | 58  | shakuntalaguptakvk@gmail.com |
| 2.  | SMS                                    | Dr. K. K. Singh              | SMS/Asstt.<br>Prof.                  | Plant<br>Breeding   | 15600-<br>39100 | 1,04,100               | 10.07.08           | Permanent                | Gen.          | 8630602518 | 46  | krishna.singh1976@gmail.com  |
| 3.  | SMS                                    | Dr. Pratima Gupta            | SMS                                  | Horticulture        | 15600-<br>39100 | 57,800                 | 01.07.22           | Permanent                | Gen.          | 9389727659 | 33  | gpratima41@gmail.com         |
| 4.  | SMS                                    | Dr. Shivangi                 | SMS                                  | Agronomy            | 15600-<br>39100 | 57,800                 | 01.07.22           | Permanent                | Gen.          | 9455005082 | 29  | singhshivangi.agri@gmail.com |
| 5.  | SMS                                    | Dr. Pintoo Kumar             | SMS                                  | Plant<br>Protection | 15600-<br>39100 | 57,800                 | 08.07.22           | Permanent                | Gen.          | 9628289157 | 39  | kumarpintoo06@gmail.com      |
| 6.  | Prog. Asstt.                           | Er. S.K. Yadav               | Prog. Asstt.                         | Computer<br>Science | 9300-<br>34800  | 81,200                 | 21.10.99           | Permanent                | OBC           | 9412117844 | 50  | shailendrayadav31@gmail.com  |
| 7.  | Prog. Asstt./<br>Farm Manger           | Dr. Bhupendra<br>Kumar       | Farm Manger                          | Plant<br>Breeding   | 9300-<br>34800  | 56,900                 | 03.09.08           | Permanent                | SC            | 9368651430 | 47  | bkdheeraniya75@gmail.com     |
| 8.  | Assistant                              | Mr. Sevaram Arya             | OS/ Accountant                       |                     | 9300-<br>34800  | 74,300                 | 09.09.00           | Permanent                | OBC           | 9457046522 | 50  |                              |
| 9.  | Driver                                 | Mr. Anil Kumar               | Driver                               |                     | 5200-<br>20200  | 34,300                 | 30.07.07           | Permanent                | SC            | 9359218476 | 43  |                              |
| 10. | Attendant                              | Mr. Satish<br>Chandra Maurya | Attendant                            |                     | 5200-<br>20200  | 39,800                 | 01.07.98           | Permanent                | OBC           | 9410860550 | 57  |                              |

| 1.6. | Total land with KVK (in ha) : | 13.35 ha  |
|------|-------------------------------|-----------|
| SN   | Item                          | Area (ha) |
| 1    | Under Buildings               | 0.40      |
| 2    | Under Demonstration Units     | 1.70      |
| 3    | Under Crops                   | 9.80      |
| 4    | Orchard                       | 1.20      |
| 5    | Fish Pond                     | 0.247     |

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#### 1.7. Infrastructural Development (A) Buildings

|    |                         |               | Stage              |                          |                        |                  |                          |                        |
|----|-------------------------|---------------|--------------------|--------------------------|------------------------|------------------|--------------------------|------------------------|
|    | Name of building        | Source        | Complete           |                          |                        | Incomplete       |                          |                        |
| SN |                         | of<br>funding | Completion<br>Date | Plinth<br>area<br>(Sq.m) | Expend-<br>iture (Rs.) | Starting<br>Date | Plinth<br>area<br>(Sq.m) | Status of construction |
| 1  | Administrative Building | ICAR          | 1999               | 550                      |                        |                  |                          |                        |
| 2  | Farmers Hostel          | ICAR          | 2006               | 300                      |                        |                  |                          |                        |
| 3  | Staff Quarters (6)      | ICAR          |                    | 400                      |                        | Nov. 2006        |                          | Completed              |
| 4  | Demo. Units (2)         | ICAR          |                    | 160                      |                        | Nov. 2006        |                          | Completed              |
| 5  | Fencing/Boundary wall   | ICAR          |                    | 500 rm                   |                        | Feb. 2007        |                          | Completed              |
| 6  | Threshing floor         | ICAR          | Completed          | 300                      |                        | Nov. 2006        |                          | Completed              |
| 7  | Farm godown             | ICAR          |                    | 60                       |                        | June 2006        |                          | Completed              |
| 8  | Irrigation Channel      | ICAR          |                    | 1000 rm                  |                        | May 2007         |                          | Completed              |
| 9  | Seed Store              | UPCAR         | March 2022         |                          |                        |                  |                          |                        |
| 10 | Vermi Compost           | UPCAR         | March 2022         |                          |                        |                  |                          |                        |

| (B) Vehicles    |                  |             |                |                |
|-----------------|------------------|-------------|----------------|----------------|
| Type of vehicle | Year of purchase | Cost (Rs.)  | Total kms. Run | Present status |
| Jeep            | 2009             | 6,00,000.00 |                | Good           |
| Motor Cycle     | 2010             | 46,500.00   |                | Good           |
| Tractor         | 1995             |             |                | Not working    |
|                 | 0 4 77 1 1       |             |                |                |

| (C) Equipments & AV aids                       |                  |            |                |  |  |  |
|--|------------------|------------|----------------|--|--|--|
| Name of the equipment                          | Year of purchase | Cost (Rs.) | Present status |  |  |  |
| Diesel engine pump set                         | 1995             |            | Poorly working |  |  |  |
| Zero till ferti seed drill                     | 1998             | 11,255.00  | Poorly working |  |  |  |
|  | 1999             | 11,300.00  | Working        |  |  |  |
|  | 2010             | 19,500.00  | Working        |  |  |  |
| Cultivator                                     | 1995             | 6,000.00   | Poorly working |  |  |  |
| Disc harrow                                    | 1995             | 4,700.00   | Poorly working |  |  |  |
|  | 2008             | 22,000.00  | Working        |  |  |  |
| Bund maker                                     | 1995             | 3,400.00   | Working        |  |  |  |
| Labeller                                       | 1995             | 47,500.00  | Working        |  |  |  |
| Tractor trolley                                | 1995             | 46,000.00  | Poorly working |  |  |  |
| Sugarcane cutter planter                       | 2000             |            | Poorly working |  |  |  |
| Bed Planter                                    | 2010             | 57,500.00  | Working        |  |  |  |
| Thresher                                       | 1995             | 17,000.00  | Poorly working |  |  |  |
| Computer                                       | 2003             |            | Not working    |  |  |  |
| LCD  | 2007             |            | Working        |  |  |  |
| ERNET setup (05 Computer, 01 Server & 01 VSAT) | 2009             |            | Not working    |  |  |  |

| 1.8 Detail of SAC meeting co   | 1.8 Detail of SAC meeting conducted in the year : Date : 09.11.2023  |   |  |  |  |  |  |
|--|--|---|--|--|--|--|--|
| Name and Designation   | Salient Recommendations  | Action taken                                |  |  |  |  |  |
| Dr. Mukesh Kumar,<br>Professor (Agronomy)<br>Directorate of Extension                          | More focus on mushroom production and small millets production technology for farming community.               | Such programme included in KVK Action plan. |  |  |  |  |  |
| SVPUA&T, Meerut  | Suggested promoting rural entrepreneurship programme for farming community.                                    | Such programme included in KVK Action plan. |  |  |  |  |  |
| Dr. P. K. Singh,<br>Associate Director,<br>Directorate of Extension,<br>SVPUA&T, Meerut        | KVK scientists should be produce more than 20000 plants seedling for farmers.                                  | Such programme included in KVK Action plan. |  |  |  |  |  |
| Dr. Hariom Katyar,<br>Asstt. Professor (Hort.)<br>Directorate of Extension,<br>SVPUA&T, Meerut | Scientist horticulture include production technology of cut flowers, exotic vegetables and flower cultivations | Such programme included in KVK Action plan. |  |  |  |  |  |
| District Plant Protection<br>Officer   | KVK scientist focus on assessment of new technology i.e new varieties and new chemicals for sugarcane crops.   | Such programme included in KVK Action plan. |  |  |  |  |  |

\* Attach a copy of SAC proceeding along with list of participants

#### 2. DETAILS OF DISTRICT

| 2.1 | 2.1 Major-farming situations/enterprises                           |  |
|-----|--|--|
| SN  | SN Farming system/enterprise                                       |  |
| 1   | 1 > Integrated agriculture farming systems                         |  |
|     | <ul> <li>Integrated crop-livestock-fish farming systems</li> </ul> |  |
|     | <ul><li>Dairy farming systems</li></ul>                            |  |
|     | <ul> <li>Agro-forestry systems</li> </ul>                          |  |
|     | <ul> <li>Agri-Horticulture farming systems</li> </ul>              |  |

| 2.2 | 2 Description of Agro-climatic Zone & major agro ecological situations |  |  |  |  |  |  |
|-----|--|--|--|--|--|--|--|
| SN  | Agro-climatic<br>Zone  | Agro-ecological situations based<br>on soil & topography   | Characteristics  |  |  |  |  |
| 1   | AES 1 (Bhabar<br>& Tarai Zone)   | The Topography of Bijnor district<br>is mainly a plain. The district has a<br>pleasing climate with cool and<br>foggy winter and generally hot and<br>humid summer. The wet session<br>starts from July to October during<br>which the district receives rainfall.<br>The temperature of the district is<br>varies from 48°C in summer and<br>3°C in winter. These districts have<br>the highest density of population<br>which gives the lowest per capita<br>land. The other two regions, the<br>central and the western are<br>comparatively better with a well-<br>developed irrigation system | <ul> <li>The soils are coarse to medium in texture, moderately well drained, consistently deep and neutral to slightly alkaline in nature</li> <li>Climate of the zone in general is subtropical type</li> <li>The maximum temperature of the district was 45°C while minimum was found to be 0.6°C</li> <li>The average rainfall is 1400 mm. Eighty three percent of rains are received from south- west monsoon from June to September</li> <li>The major crops of the zone are sugarcane, rice, wheat, mustard &amp; urd etc.</li> <li>The soils are low to medium in available phosphorus, medium to high in organic carbon</li> </ul> |  |  |  |  |

#### Major problems identified through PRA

- Low yield in sugarcane crop due to heavy infestations of old variety, red rot, Top borer & weeds
- Low yield in rice due to heavy infestations of Blast disease, Stem borer, Leaf folder & weeds
- Low yield in wheat crop due to heavy infestation of weeds
- Low yield in mustard crop due to old varieties & infestation of aphid
- Low yield in vegetable crops i.e. cauliflower, Brinjal, Tomato & Onion due to old varieties and imbalance use of nutrients
- Low yield in Mango & Guava due to old orchard imbalance use of nutrients and heavy infestation of shoot gall maker and dieback disease
- Low income and unemployment of rural youth

| 2.3 | Soil type/    | S   |            |
|-----|---------------|---|------------|
| SN  | Soil type     | Characteristics   | Area in ha |
| 1   | Clay loam     | Fine-grained minerals, organic matter medium, variable range of water content, clay minerals. | 223752     |
| 2   | Sandy<br>loam | Fertile soil with rich nutrient, organic matter medium to high suitable for all arable crops. | 172428     |

| 2.4   | 4 Area, Production and Productivity of major crops cultivated in the district |           |                  |                       |  |  |  |
|-------|---|-----------|------------------|-----------------------|--|--|--|
| SN    | Crop  | Area (ha) | Production (Qtl) | Productivity (Qt./ha) |  |  |  |
| 1     | Sugarcane   | 213300    |                  | 901.00                |  |  |  |
| 2     | Rice  | 55550     |                  | 28.05                 |  |  |  |
| 3     | Wheat   | 155000    |                  | 38.50                 |  |  |  |
| 4     | Lentil  | 1500      |                  | 8.11                  |  |  |  |
| 5     | Urd   | 1620      |                  | 13.93                 |  |  |  |
| 6     | Mustard   | 8500      |                  | 14.11                 |  |  |  |
| Veget | ables   |           |                  |                       |  |  |  |
| 7     | a) Kharif   | 17824     |                  |                       |  |  |  |
| 8     | b) Rabi   | 5540      |                  |                       |  |  |  |
| 9     | c) Zaid   | 2655      |                  |                       |  |  |  |



| 2.5 Weather data |               |            |         |                      |                              |      |
|------------------|---------------|------------|---------|----------------------|------------------------------|------|
| Month            | Rainfall      | Rainy Days | Tempera | ature <sup>0</sup> C | <b>Relative Humidity (%)</b> |      |
| Month            | ( <b>mm</b> ) |            | Maximum | Minimum              | 0716                         | 1416 |
| January, 2023    | 40.0          | 04         | 17.1    | 6.9                  | 95                           | 62   |
| February, 2023   | 0.0           |            | 26.8    | 9.3                  | 90                           | 45   |
| March, 2023      | 91.6          | 05         | 27.3    | 11.9                 | 92                           | 51   |
| April, 2023      | 118.4         | 05         | 32.6    | 15.0                 | 75                           | 40   |
| May, 2023        | 30.3          | 05         | 34.3    | 19.1                 | 81                           | 45   |
| June, 2023       | 290.6         | 05         | 34.5    | 23.5                 | 86                           | 60   |
| July, 2023       | 522.6         | 13         | 31.6    | 19.4                 | 92                           | 78   |
| August, 2023     | 224.6         | 10         | 32.8    | 25.1                 | 93                           | 70   |
| September, 2023  | 0.0           | 0.0        | 32.5    | 24.8                 | 93                           | 66   |
| October, 2023    | 32.6          | 02         | 31.5    | 15.6                 | 84                           | 57   |
| November, 2023   | 0.0           | 0.0        | 27.4    | 10.0                 | 94                           | 51   |
| December, 2023   | 0.0           | 0.0        | 21.0    | 5.9                  | 95                           | 55   |

| 2.6 Production and productivity of livestock, Poultry, Fisheries etc. in the district |            |                  |                                 |  |  |  |  |
|---|------------|------------------|---------------------------------|--|--|--|--|
| Category  | Population | Production (LMT) | Productivity<br>(kg/day/animal) |  |  |  |  |
| Cattle  |            |                  |                                 |  |  |  |  |
| Crossbred   | 41490      |                  | 3.0                             |  |  |  |  |
| Indigenous  | 223258     |                  | 1.5                             |  |  |  |  |
| Buffalo   | 526188     | 127.56           | 4.3                             |  |  |  |  |
| Cow   | 223258     | 33.52            | 2.5                             |  |  |  |  |
| Sheep   |            |                  |                                 |  |  |  |  |
| Crossbred   | 8286       |                  |                                 |  |  |  |  |
| Indigenous  | 5599       |                  |                                 |  |  |  |  |
| Goats   | 104429     | 10.93            | 0.729                           |  |  |  |  |
| Pigs  |            |                  |                                 |  |  |  |  |
| Crossbred   | 5427       |                  |                                 |  |  |  |  |
| Indigenous  | 24938      |                  |                                 |  |  |  |  |
| Rabbits   | 495        |                  |                                 |  |  |  |  |
| Poultry   | 152327     |                  |                                 |  |  |  |  |

| Category | Area       | Production (qt.) | Productivity (qt./ha) |  |
|----------|------------|------------------|-----------------------|--|
| Fish     | 1306.60 ha | 45404.35         | 34.75                 |  |

| 2.7 | Details of | of Operationa          | al Area /Villages (31st D  | ecember, 2023)  |   |   |
|-----|------------|------------------------|--|---|---|---|
| SN  | Taluka     | Name of<br>the block   | Name of the village  | Major crops &<br>enterprises  | Major problem identified  | Identified Thrust Areas   |
| 1   | Nagina     | Kotwali                | Harvanshpur Dhaaram,<br>Khanpur, Saidkheri,<br>Rajpura, Purani,<br>Nejowali Gamdi,<br>Fulsandha<br>Karandachodher, Patpura<br>and Vishoniwala etc. | Sugarcane, Rice,<br>Wheat, French bean,<br>Okra, Mustard,<br>Groundnut, Urd,<br>Moong, Mango and<br>Guava | <ul> <li>Insect &amp; Diseases</li> <li>Old variety seed</li> <li>Excessive and Imbalanced use of pesticides &amp; fertilizers</li> <li>No seed treatment,</li> <li>Poor Management of orchards</li> <li>No application of micronutrients</li> </ul>                                  | <ul> <li>Introduction and Popularization of HYV</li> <li>Promotion of IPNM, IPM, IDM, ICM</li> <li>Popularization of intercropping</li> <li>Promotion of self help group of farmers</li> <li>Encouragement of Oilseed and Pulses</li> <li>Rejuvenation of old orchards</li> </ul>   |
| 2   | Dhampur    | Allahapur<br>(Dhampur) | Nayagoan and<br>Norangabad   | Sugarcane, Rice<br>Wheat, Mustard,<br>Vegetables  | <ul> <li>Insect &amp; Diseases attack</li> <li>Excessive and imbalanced use of pesticides &amp; fertilizers</li> <li>No seed treatment</li> <li>Reliability of the farmers on chemicals</li> </ul>  | <ul> <li>Discriminative use of pesticides</li> <li>Promotion of IPNM, IPM, IDM, ICM</li> <li>Improving technological skills of fruits farmers</li> <li>Promotion of self help group of farmers</li> </ul>   |
| 3   | Najibabad  | Najibabad              | Jattiwalla and Raipur  | Vegetable, Fruits,<br>Rice, Wheat and<br>Sugarcane  | <ul> <li>Unavailability of quality seed of vegetable</li> <li>Insect &amp; Diseases attack</li> <li>No seed treatment</li> <li>Poor management of orchards</li> <li>No application of micronutrients</li> </ul>   | <ul> <li>Promotion of suitable and HYV of vegetables</li> <li>Discriminative use of pesticides</li> <li>Promotion of IPNM, IPM, IDM, ICM</li> <li>Improving technological skills of fruits farmers</li> <li>Promotion of self help group of farmers</li> </ul>  |
| 4   | Nagina     | Nehtaur                | Kokapur, Begrajpur and<br>Sarayaashnra etc.  | Sugarcane, Rice<br>Wheat, Mustard,<br>Vegetables  | <ul> <li>Insect &amp; Diseases attack</li> <li>Excessive and imbalanced use of pesticides &amp; fertilizers</li> <li>No seed treatment</li> <li>Reliability of the farmers on chemicals</li> </ul>  | <ul> <li>Introduction and Popularization of HYV</li> <li>Promotion of IPNM, IPM, IDM, ICM</li> <li>Popularization of intercropping</li> <li>Promotion of self help group of farmers</li> <li>Encouragement of Oilseed and Pulses</li> <li>Rejuvenation of old orchards</li> </ul>   |
| 5   | Najibabad  | Kiratpur               | Akbrabad and Sadipur   | Vegetable, Fruits,<br>Rice, Wheat and<br>Sugarcane  | <ul> <li>Unavailability of quality seed of vegetable</li> <li>Insect &amp; Diseases attack</li> <li>Excessive and imbalanced use of pesticides &amp; fertilizers</li> <li>No seed treatment</li> <li>Poor management of orchards</li> <li>No application of micronutrients</li> </ul> | <ul> <li>Promotion of suitable and HYV of vegetables</li> <li>Adequate package and practices of vegetables and fruits</li> <li>Discriminative use of pesticides</li> <li>Promotion of IPNM, IPM, IDM, ICM</li> <li>Improving technological skills of fruits farmers</li> <li>Promotion of self help group of farmers</li> </ul> |

| 6 | Dhamapur | Seohara   | Jamapur, Jat Nagla and<br>Budhanpur | Rice, Wheat,<br>Sugarcane and<br>orchard  | <ul> <li>Delayed sowing of sugarcane and wheat</li> <li>Improper management of pests</li> <li>Sowing of old varieties seeds</li> <li>Imbalanced use of pesticides &amp; fertilizers</li> <li>Poor management of orchards</li> <li>No application of micronutrients</li> </ul> | <ul> <li>Promotion of suitable and HYV of vegetables</li> <li>Adequate package and practices of fruits</li> <li>Discriminative use of pesticides</li> <li>Promotion of IPNM, IPM, IDM, ICM</li> <li>Improving technological skills of sugarcane and rice farmers</li> <li>Promotion of self help group of farmers</li> </ul> |
|---|----------|-----------|-------------------------------------|---|---|--|
| 7 | Nagina   | Afjalgarh | Jamanwala and<br>Muraliwala         | Sugarcane, Rice,<br>Wheat, Mustard,<br>Groundnut, Urd,<br>Moong, Mango and<br>Guava | <ul> <li>Insect &amp; Diseases</li> <li>Old variety seed</li> <li>Excessive and Imbalanced use of pesticides &amp; fertilizers</li> <li>No seed treatment,</li> <li>Poor Management of orchards</li> <li>No application of micronutrients</li> </ul>                          | <ul> <li>Introduction and Popularization of HYV</li> <li>Promotion of IPNM, IPM, IDM, ICM</li> <li>Popularization of intercropping</li> <li>Promotion of self help group of farmers</li> <li>Encouragement of Oilseed and Pulses</li> <li>Rejuvenation of old orchards</li> </ul>  |
| 8 | Chandpur | Jalilpur  | Bhwanipur and<br>Laddupura          | Sugarcane, Rice<br>Wheat, Mustard,<br>Vegetables                                    | <ul> <li>Insect &amp; Diseases attack</li> <li>Excessive and imbalanced use of pesticides &amp; fertilizers</li> <li>No seed treatment</li> <li>Reliability of the farmers on chemicals</li> </ul>  | <ul> <li>Introduction and Popularization of HYV</li> <li>Promotion of IPNM, IPM, IDM, ICM</li> <li>Popularization of intercropping</li> <li>Promotion of self help group of farmers</li> <li>Encouragement of Oilseed and Pulses</li> <li>Rejuvenation of old orchards</li> </ul>  |

| 2.8 Priority Thr                   | rust areas  |
|------------------------------------|---|
| Crop/Enterprise                    | Thrust area   |
| Sugarcane                          | <ul> <li>Popularizing IPM technologies for management of insect pests</li> <li>Popularizing new agro techniques in sugarcane for farmers doubling income</li> <li>Promoting quality seed production at farmers field</li> </ul>   |
| Paddy                              | <ul> <li>Popularizing IPM technologies for management of insect pests</li> <li>Popularizing new agro techniques in paddy for farmers doubling income</li> <li>Promoting quality seed production at farmers field</li> <li>Promoting export quality Basmati production</li> </ul>  |
| Wheat                              | <ul> <li>Popularizing IPM technologies for management of insect pests</li> <li>Popularizing new agro techniques in wheat for farmers doubling income</li> <li>Promoting quality seed production at farmers field</li> </ul>   |
| Pulses                             | <ul> <li>Popularizing IPM technologies for management of insect pests</li> <li>Popularizing new agro techniques in pulses for farmers doubling income</li> <li>Promoting quality seed production at farmers field</li> </ul>  |
| Oilseeds                           | <ul> <li>Popularizing IPM technologies for management of insect pests</li> <li>Popularizing new agro techniques in oilseeds for farmers doubling income</li> <li>Promoting quality seed production at farmers field</li> </ul>  |
| Small millets                      | <ul> <li>Popularizing new agro techniques in small millets for farmers doubling income</li> <li>Promoting quality seed production at farmers field</li> </ul>   |
| Women<br>empowerment               | Women empowerment through popularization of food preservation technique,<br>NARI & VATICA programe  |
| Vegetable &<br>Horticultural Crops | <ul> <li>Popularizing IPM technologies for management of insect pests</li> <li>Popularizing new agro techniques in vegetable &amp; Horticulture crops for farmers doubling income</li> </ul>  |
| Others                             | <ul> <li>Maintenance of soil productivity through IPNM</li> <li>Promoting resource conservation techniques in crops</li> <li>Promoting Group Approach of Extension through FIG, FPO, custom hiring centers</li> <li>Diversification in crops</li> <li>Promoting natural farming techniques for sustainable agriculture</li> </ul> |

| 3. TECHNICAL ACHIEVEMENTS<br>3.A. Details of target and achievements of mandatory activities by KVK |                |            |               |   |                   |              |                  |  |  |  |
|---|----------------|------------|---------------|---|-------------------|--------------|------------------|--|--|--|
|   | OFT (Technolog | gy Assessm | ent)          | FLD (Oilseed                            | ls, Pulses, Cotto | n, Other Cro | ps/ Enterprises) |  |  |  |
|   | 1              |            |               |   | 2                 | 2            |                  |  |  |  |
| Numb  | er of OFTs     | Total      | no. of Trials | Area in ha Number of Farmers            |                   |              |                  |  |  |  |
| Targets   | Achievement    | Targets    | Achievement   | t Targets Achievement Targets Achieveme |                   |              |                  |  |  |  |
| 10  | 12             | 50         | 55            | 55 210.9 100 750                        |                   |              |                  |  |  |  |

| Traini<br>trainir | Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit) |                  |           |                  |         | Extension Activities                          |           |                  |  |
|-------------------|--|------------------|-----------|------------------|---------|---|-----------|------------------|--|
|                   |  | 3                |           |                  |         |   | 4         |                  |  |
| Nun               | nber of Co   | urses            | Number of | Participants     | Number  | of activities                                 | Number of | participants     |  |
| Clientele         | Targets  | Achiev-<br>ement | Targets   | Achiev-<br>ement | Targets | rgets Achiev-<br>ement Targets Achiev<br>emen |           | Achiev-<br>ement |  |
| PF                |  | 85               |           | 1700             |         | 612   | 22460     | 52235            |  |
| RY                |  | 8                |           | 110              |         |   |           |                  |  |
| EF                | 100  | 51               | 2000      | 1700             | 200     |   |           |                  |  |
| Other             |  |                  |           |                  | 200     |   |           |                  |  |
| Skill trg.        |  | 3                |           | 70               |         |   |           |                  |  |
| Total             | 100  | 147              | 2000      | 3580             |         |   |           |                  |  |

| 5      | Seed Production (Q. | .)                               | Planting material (Nos.) |             |                                  |  |
|--------|---------------------|----------------------------------|--------------------------|-------------|----------------------------------|--|
|        | 5                   | 5 6                              |                          |             |                                  |  |
| Target | Achievement         | Distributed to<br>no. of farmers | Target                   | Achievement | Distributed to<br>no. of farmers |  |
| 200    | 315                 | 20000 2500                       |                          |             |                                  |  |

| <b>Technology</b>                      | Demonstrated and disseminated through Technology Park                      |
|--|--|
| Сгор                                   | Technology /Variety  |
| Wheat (Varietal)                       | WB-02, HPBW-01, DBW-173, HD-2967, HD-3086, DBW-88, PBW-621, PBW-           |
|  | 550, DBW-17, PBW-590, DBW-71, DBW-90 and HD-3059                           |
| Wheat (Weed                            | Isoproturan 75 WP @ 1.5 kg/ha, Sulfosulfuran 75% + Metsulfuron 5% @ 40     |
| Management)                            | gm/ha, Mesosulfuranmethyal 3% + Idosulfuranmethyal 0.6% at 400 gm/ha and   |
|  | Clodinofop 15% WP + Metsulfuron 20% @ 40 gm/ha                             |
| Paddy (Varietal)                       | HKR-127, NDR-359, NDR-2008, NDR-2064, PR-113, NB-3, PR-111, HKR-97,        |
|  | SuskSamrat.Arize 6444 Gold, PAC-801, VNR-2335, NPH-150, TEJ Gold, Swift    |
|  | Gold, Prima, VNR-2245, Pusa Basmati-2511, Pusa Basmati-1637, Pusa Basmati- |
|  | 1121, Pusa Basmati-01, PB-1509 T-21, Sharbati (Local grown) and Chandan-21 |
| Paddy (Weed                            | Bispyribac sodium 10%SC 250 ml/ha, Pretilachlor 2.0 lit/ha and Oxadiagril  |
| Management)                            | 112.5gm/ha   |
| Total technology to                    | 80   |
| be demonstrated                        | 80   |
| Approximately No<br>of farmers visited | 8500   |

### I. TECHNOLOGY ASSESSMENT

| Thematic<br>areas             | Сгор            | Name of the technology assessed  | No. of<br>trials | No. of<br>farmers |
|-------------------------------|-----------------|--|------------------|-------------------|
|                               |                 | Evaluation of newly released high yielding timely sown<br>wheat variety against disease resistance & better yield    | 01               | 05                |
|                               | Wheat           | Evaluation of newly released high yielding very late sown<br>wheat variety against disease resistance & better yield | 01               | 05                |
| Varietal                      | w neat          | Evaluation of newly released high yielding timely sown<br>wheat variety against disease resistance & better yield    | 01               | 05                |
| Evaluation                    |                 | Evaluation of newly released high yielding late sown<br>wheat variety against disease resistance & better yield      | 01               | 05                |
|                               | Potato          | Evaluation off newly released high yielding potato varieties   | 01               | 04                |
|                               | Okra            | Evaluation of improved varieties of okra (Pusa Bhindi-05)  | 01               | 05                |
|                               | Basmati<br>Rice | Evaluation of newly released high yielding Basmati rice varieties against disease resistance                         | 01               | 05                |
| Integrated Crop<br>Management | Wheat           | Evaluation of suitable plant growth hormone and fungicide<br>for optimizing maximum yield of wheat crop              | 01               | 05                |
| Integrated                    | Basmati         | Evaluation of suitable fungicides for management of blast diseases   | 01               | 03                |
| Management                    | Rice            | Evaluation of suitable pesticides for management of Steam borer  | 01               | 03                |
| Value Addition                | Sawa<br>Namken  | Value addition in Sawa Namken  | 01               | 05                |
|                               | Bajra Luddo     | Bajra Luddo  | 01               | 05                |
|                               |                 | Total  | 12               | 55                |
| Summary of te                 | chnologies ass  | essed under livestock by KVKs : N  | lil              |                   |

#### Summary of technologies assessed under various CrOpS by KVKs

Summary of technologies assessed under various enterprises by KVKs : Nil

#### I.B. TECHNOLOGY ASSESSMENT IN DETAIL VARIETAL EVALUATION OFT-1 (Plant Breeding) Season – Rabi

Year: 2022-23

Problem definition: Low Productivity of Timely Sown Wheat

**Technology Assessed:** Evaluation of newly released high yielding timely sown wheat variety against disease resistance and better yield.

The KVK Bijnor conducted On-farm trial on timely sown wheat varieties to find out suitable high yielding timely sown wheat varieties for better yield with disease resistance, crop duration and lodging also at farmer's field situation. The varieties tested were DBW-327, DBW-332 and HD-2967 as check. The sowing dates of these varieties are 05 to 15 November 2022 with 07 to 12 April 2023 harvesting dates also. The results revealed that yield increase of Timely sown wheat varieties 8.64 to 15.29 percent over farmers practice. The variety DBW-327 gave highest yield of 52.00 qt. per ha with net return of Rs. 97280.00 and BCR of 3.0. The others technical data as given below:

- ▶ Variety DBW-327 takes more or less same crop duration as comparison to DBW-332 & HD-2967.
- The lodging in DBW-327 is less (4-7%) in comparison HD-2967 (8-12%)
- ▶ Karnal bunt incidence in DBW-327 is none while it is about 6-10% in HD-2967.

| Technology Option                | No. of<br>trials            | Yield<br>(qt./ha) | Increase<br>in yield<br>(%) | Lodging<br>(%) | Disease<br>incidence<br>(%) | Net<br>Return<br>(Rs./ha) | B:C<br>Ratio |
|----------------------------------|-----------------------------|-------------------|-----------------------------|----------------|-----------------------------|---------------------------|--------------|
| T <sub>1</sub> - Local (HD-2967) | 01 (05<br>farmers<br>field) | 45.10             |                             | 8-12           | 6-10                        | 78,215.00                 | 2.57         |
| T <sub>2</sub> - DBW-327         |                             | 52.00             | 15.29                       | 4-7            | 0                           | 97,280.00                 | 3.00         |
| T <sub>3</sub> - DBW-332         |                             | 49.00             | 8.64                        | 5-8            | 0                           | 89,460.00                 | 2.82         |

Evaluation of newly released high yielding variety



# OFT-2 (Plant Breeding)Season – RabiYear: 2022-23Problem definition: Low Productivity of Very Late Sown Wheat

**Technology Assessed:** Evaluation of newly released high yielding late sown wheat variety against disease resistance and better yield.

The KVK Bijnor conducted On-farm trial on very late sown wheat varieties to find out suitable high yielding very late sown wheat varieties for better yield with disease resistance, crop duration and lodging also at farmer's field situation. The varieties tested were PBW-771 and PBW-226 as check. The sowing dates of these varieties are 18-25 December 2022 with 05-10 April 2023 harvesting dates also. The results revealed that yield increase of very late sown wheat varieties 24.20 percent over farmers practice. The variety PBW-771 gave highest yield of 39.00 qt. per ha with net return of Rs. 63670.00 and BCR of 2.33. The others technical data as given below:

- ➤ Variety PBW-771 takes less crop duration (110 days) as comparison to PBW-226 (116-122 days).
- > The lodging in PBW-771 is none in comparison PBW-226 (8-12%).
- > Yellow rust incidence in HPBW-771 is none while it is about 3-5% in PBW-226.

| Technology Option                | No. of<br>trials            | Yield<br>(qt./ha) | Increase<br>in yield<br>(%) | Lodging<br>(%) | Disease<br>incidence<br>(%) | Net<br>Return<br>(Rs./ha) | B:C<br>Ratio |
|----------------------------------|-----------------------------|-------------------|-----------------------------|----------------|-----------------------------|---------------------------|--------------|
| T <sub>1</sub> - Local (PBW-226) | 01                          | 39.50             |                             | 8-12           | 3-5                         | 42650.00                  | 1.87         |
| T <sub>2</sub> - PBW-771         | (05 farmers<br>field)       | 46.10             | 24.20                       | 0              | 0                           | 63670.00                  | 2.33         |
|                                  | f.a.s.ccm<br>adates and the |                   |                             |                |                             |                           |              |

# Evaluation of newly released high yielding variety

#### **OFT-3** (Horticulture)

Season – Rabi

#### Problem definition: Low Productivity in Potato

Technology Assessed: Evaluation of newly released high yielding Potato varieties.

The KVK Bijnor conducted On-farm trial on Potato varieties to find out suitable high yielding Potato varieties for better yield with disease resistance. The varieties tested were Kufari Badsah and Kufari Mohan as check. The sowing dates of these varieties are 25 to 30 October 2022. The results revealed that yield increase of Kufri Mohan is 15 percent over farmers practice. The variety Kufri mohans gave highest yield of 390.00 qt. per ha with net return of Rs. 195000.00 and BCR of 3.08. The others technical data as given below:

- > Disease incidence in Kufri mohan is very less while it is about 3-10% in Kufari badsah.
- > Kufri mohan is like by farmers due to their better keeping quality and valuable for market.

| Technology Option                         | No. of<br>trials  | Yield<br>(qt./ha) | Increase in<br>yield (%) | Disease<br>incidence (%) | Net Return<br>(Rs./ha) | B:C<br>Ratio |
|---|-------------------|-------------------|--------------------------|--------------------------|------------------------|--------------|
| T <sub>1</sub> - Local (Kufari<br>badsah) | 01<br>(04 farmers | 360.00            | -                        | 03-10                    | 78000.00               | 1.72         |
| T <sub>2</sub> - Kufri mohan              | field)            | 390.00            | 15.00                    | 0-3                      | 195000.00              | 3.08         |

#### **Evaluation of newly released high yielding variety**



#### **OFT-4** (Horticulture)

Season – Zaid

Year: 2023

Problem definition: Low Productivity in Okra

Technology Assessed: Evaluation of improved varieties of okra (Pusa Bhindi-05).

The KVK Bijnor conducted On-farm trial on Okra varieties to find out suitable improved varieties of Okra varieties for better yield. The varieties tested were local and Pusa Bhindi-05 as check. The sowing dates of these varieties are 02 to 10 March 2023. The results revealed that yield increase of Pusa Bhindi -05 is 22.6 percent over farmers practice. The variety Pusa Bhindi -05 gave highest yield of 152.00 qt. per ha with net return of Rs.10.3400 and BCR of 1:3.12. The others technical data as given below:

- ▶ Disease incidence in pusa bhindi -05 is very less while it is about 5-10% in Local Gopi Variety.
- > Pusa bhindi-05 is like by farmers due to their better quality and valuable for market.

| Technology Option                | No. of<br>trials   | Yield<br>(qt./ha) | Increase in<br>yield (%) | Disease<br>incidence (%) | Net Return<br>(Rs./ha) | B:C<br>Ratio |
|----------------------------------|--------------------|-------------------|--------------------------|--------------------------|------------------------|--------------|
| T <sub>1</sub> - Local (Gopi)    | 01                 | 124.00            |                          | 5-10                     | 54900                  | 2.23         |
| T <sub>2</sub> - Pusa Bhindi -05 | (05 farmers field) | 152.00            | 22.6.00                  | 0-2                      | 103400                 | 3.12         |

#### Evaluation of improved & high yielding variety

#### **OFT-5 (Plant Breeding)**

Season - Kharif

Problem definition: Low Productivity of Basmati Rice

**Technology Assessed:** Evaluation of newly released high yielding Basmati Rice varieties against disease resistance.

The KVK Bijnor conducted On-farm trial on Rice varieties to find out suitable high yielding basmati rice varieties for better yield with disease resistance, crop duration and lodging also at farmer's field situation. The varieties tested were Pusa Basmati-1847 and PB-1509 as check. The transplanting dates of these varieties are 05-25 June, 2023 with harvesting 15-20 October, 2023. The results revealed that yield increase of rice varieties ranged between 23-27% over farmers practice. The variety Pusa Basmati-1847 gave highest yield of 49.00 qt. per ha with net return of Rs. 124370.00 and BCR of 3.60. The others technical data as given below:-

- i. The lodging in PB-1847 is none in comparison PB-1509 (4-7%).
- ii. Disease incidence in PB-1847 is none comparison PB-1509 (4-12%).

| Technology Option                  | No. of<br>trials   | Yield<br>(qt./ha) | Increase<br>in yield<br>(%) | Lodging<br>(%) | Disease<br>incidence<br>(%) | Net Return<br>(Rs./ha) | B:C<br>Ratio |
|------------------------------------|--------------------|-------------------|-----------------------------|----------------|-----------------------------|------------------------|--------------|
| T <sub>1</sub> -Local (PB-1509)    | 01                 | 39.75             |                             | 4-7            | 4-12                        | 92750.00               | 2.90         |
| T <sub>2</sub> - Pusa Basmati-1847 | (05 farmers field) | 49.00             | 23.27                       |                |                             | 124370.00              | 3.60         |

#### Evaluation of newly released high yielding variety



#### **OFT-6 (Plant Breeding)**

Season – Rabi

Year: 2023-24

Year: 2023-24

Problem definition: Low Productivity of Timely Sown Wheat

**Technology Assessed:** Evaluation of newly released high yielding timely sown wheat variety against disease resistance and better yield.

The KVK Bijnor conducted On-farm trial on timely sown wheat varieties to find out suitable high yielding timely sown wheat varieties for better yield with disease resistance, crop duration and lodging also at farmer's field situation. The varieties tested were DBW-370, DBW-371 and HD-2967 as check. The sowing dates of these varieties are 05 to 20 November 2023.

#### **Result Awaited**

Season – Rabi

#### **OFT-7** (**Plant Breeding**)

**Problem definition:** Low Productivity of Very Late Sown Wheat

**Technology Assessed:** Evaluation of newly released high yielding late sown wheat variety against disease resistance and better yield.

The KVK Bijnor conducted On-farm trial on very late sown wheat varieties to find out suitable high yielding very late sown wheat varieties for better yield with disease resistance, crop duration and lodging also at farmer's field situation. The varieties tested were JKW-261 and PBW-226 as check. The sowing dates of these varieties are 18-28 December 2023.

#### **Result Awaited**

#### INTEGRATED CROP MANAGEMENT

#### **OFT-8** (Agronomy)

Season – Rabi

Year: 2022-23

**Problem definition:** Low productivity in high yielding wheat variety

**Technology Assessed:** Evaluation of suitable plant growth hormone and fungicide for optimizing maximum yield of wheat crop.

KVK, Bijnor conducted on-farm trial on wheat crop for optimizing maximum yield through assessment of suitable plant growth hormone and fungicide. The application of suitable plant growth hormone and fungicide on wheat crop at tillering and boot leaf stage with 06-12 April 2023 harvesting dates also. The results revealed that yield increase of treated field 7.13 percent over farmers practice. The treated field gave highest yield of 49.84 per ha with net return of Rs. 89447.00 and BCR of 2.75. The others technical data as given below:

Lihocine + Tebuconazonle are an effective plant growth regulatur which improve of quality and yield of wheat.

| Technology Option  | No. of trials         | Yield<br>(qt./ha) | Increase in<br>yield (%) | Net Return<br>(Rs./ha) | B:C<br>Ratio |
|--|-----------------------|-------------------|--------------------------|------------------------|--------------|
| T <sub>1</sub> - Local   | 01                    | 46.52             |                          | 82308.00               | 2.71         |
| T <sub>2</sub> - Lihocine + Tebuconazonle<br>(Chlorneuquat chloride 50%SL) | (05 farmers<br>field) | 49.84             | 7.13                     | 89447.00               | 2.75         |
|  |                       |                   |                          |                        |              |

#### **Evaluation of suitable plant growth hormone**

# INTEGRATED DISEASE & PEST MANAGEMENTOFT-9 (Plant Pathology)Season – KharifYear: 2023Problem definition: Law Productivity in Descenti Piece due to becominfortation of Plant

**Problem definition:** Low Productivity in Basmati Rice due to heavy infestation of Blast **Technology Assessed:** Evaluation of suitable fungicides for management of blast diseases.

The KVK Bijnor conducted on-farm trial on management of blast diseases through suitable fungicides. The chemical tested were Azoxistrobin 18.2% + Difenoconazole 11.4% WG and Tricyclazol as check. The application dates of fungicides 15-20 September, 2023. The results revealed that yield increase of Azoxistrobin 18.2% + Difenoconazole 11.4% WG tretaed plot 21.65% over farmers practice. The Azoxistrobin 18.2% + Difenoconazole 11.4% WG tretaed plot gave highest yield of 49.16 qt. per ha with net return of Rs. 122850.00 and BCR of 3.53. The others technical data as given below:-

i. Disease incidence in Azoxistrobin 18.2% + Difenoconazole 11.4% WG tretaed plot is less (0-3%) comparison to farmer practice (9-18%).

| Technology Option  | No. of<br>trials   | Yield<br>(qt./ha) | Increase<br>in yield<br>(%) | Disease<br>incidence<br>(%) | Net<br>Return<br>(Rs./ha) | B:C<br>Ratio |
|--|--------------------|-------------------|-----------------------------|-----------------------------|---------------------------|--------------|
| T <sub>1</sub> -Local (Tricyclazol)                              | 01                 | 40.41             |                             | 9-18                        | 93134                     | 2.96         |
| T <sub>2</sub> - Azoxistrobin 18.2% +<br>Difenoconazole 11.4% WG | (03 farmers field) | 49.16             | 21.65                       | 0-3                         | 122850                    | 3.53         |

#### Evaluation of new fungicides againts blast diseases



#### OFT-10 (Plant Pathology) Season – Kharif Year: 2023

**Problem definition:** Low Productivity in Basmati Rice due to heavy infestation of Stem borer **Technology Assessed:** Evaluation of suitable pesticides for management of Stem borer.

The KVK Bijnor conducted on-farm trial on management of Stem borer through suitable insecticide. The chemical were tested Cartap Hydrochloride 4% + Fepronil 0.5% CG and Chlorpyriphos 50% EC as check. The application dates of insecticide were 25-30 August, 2023. The results revealed that yield increase of Cartap Hydrochloride 4% + Fepronil 0.5% CG tretaed plot 18.27% over farmers practice. The Cartap Hydrochloride 4% + Fepronil 0.5% CG tretaed plot gave highest yield of 45.83 qt. per ha with net return of Rs. 134250.00 and BCR of 3.26. The others technical data as given below:-

i. Stem borer incidence in Cartap Hydrochloride 4% + Fepronil 0.5% CG tretaed plot is less (0-5%) comparison to farmer practice (9-20%).

| Technology Option   | No. of<br>trials                            | Yield<br>(qt./ha) | Increase in<br>yield (%) | Insect<br>incidence<br>(%) | Net<br>Return<br>(Rs./ha) | B:C<br>Ratio |
|---|---|-------------------|--------------------------|----------------------------|---------------------------|--------------|
| T <sub>1</sub> - Local (Chlorpyriphos 50% EC)   | 01  | 38.75             |                          | 9-20                       | 86900                     | 2.83         |
| T <sub>2</sub> - Cartap Hydrochloride 4% +<br>Fepronil 0.5% CG  | (03<br>farmers<br>field)                    | 45.83             | 18.27                    | 0-5                        | 109700                    | 3.26         |
| Halapur Bhunga, Uttar Pradesh, Indo<br>CR4+9V9, Bijnor - Nagina Rd, Jalajpur Bhunga<br>La 29.40088°<br>La 29.40088°<br>La 29.40088°<br>La 29.40088°<br>La 29.40088°<br>La 29.40088° | GPS Map Car<br>lia<br>Uttar Pradesh 246762, | nera<br>India     |                          |                            |                           |              |

#### **Evaluation of new fungicides againts blast diseases**

**OFT-11 (Home Science)** 

Season – Kharif

Year: 2023

**Technology Assessed:** KVK Bijnor provided training and practical exposure for preparation of Sawa Namken to 5 farm women. Result indicates that Sawa Namken original colour doesn't deteriorate till 6 month by scientific method. For preservation sodium benjoate & Steel Kadai was used hence no blackness in it. Farm women earlier don't use any chemical for preservation.

Problem definition: Original color deterioration of Sawa Namken after long term storage

| Technology<br>adopted | Number of<br>farm women  | Sawa<br>Namken kg                                 | Total<br>expenditure | Total<br>income  | Net income  | B:C<br>Ratio  |
|-----------------------|--|---|----------------------|--|---|---------------|
| T1- Sawa<br>Namken    | 01<br>(05 farmers)   | 1.2 Kg  | 520.00               | 980.00   | 380.00  | 2.36          |
| Google                | rt Ganga, Uttar Pradesh, Inn<br>a - Nehtaur Rd, Alipur Ganga,<br>9.889313°<br>78.41247°<br>/23 12:06 PM GMT +05:30 | CPS Map Cam<br>dia<br>Uttar Pradesh 246762, India | era                  | Анцег, зак на<br>вска. указание<br>на 29.389288<br>Long 78.41250<br>310/723 111.48 | или прити знак, клити ( прити)<br>и и и и и и и и и и и и и и и и и и и | PS Map Camera |

#### **OFT-12 (Home Science)**

Season – Rabi

Year: 2023-24

Problem definition: Unemployment and low income of farming womens

**Technology Assessed:** KVK Bijnor provided training and practical exposure for preparation of Bajra Luddo for 5 farm womens. Result indicates that Bajra Luddo keeping quality doesn't deteriorate till 1 and 1.5 month by making of scientific method. For making of Bajra Luddo use as pservatives i.e balanced sugar, Deshi Ghee and flour of Bajra. Results as given below -

| Technology<br>adopted | Number of<br>farm women | Bajra Luddo<br>(kg) | Total<br>expenditure | Total<br>income  | Net income   | B:C<br>Ratio                          |
|-----------------------|-------------------------|---------------------|----------------------|--|--|---------------------------------------|
| T1- Bajra<br>Luddo    | 01<br>(05 farmers)      | 6.0                 | 860.00               | 1190.00  | 330.00   | 1.30                                  |
|                       |                         |                     | Coogle               | Jalalpur Bhunga, U<br>Lat 2+40782*<br>Lat 2+40782*<br>Lat 10/23 02:24 PM GMT | Attar Pradesh, India<br>Ina Rd, Jalalpur Bhunga, Uttar P<br>+05:30 | PS Map Camera<br>radesh 246762, India |

# **II. FRONTLINE DEMONSTRATION**

a. Follow-up for results of FLDs implemented during previous years List of technologies demonstrated during previous year and popularized during 2022-23 and recommended for large scale adoption in the district

|    | Cron/      |                      |                         | Details of popularization methods suggested to   | Horizonta          | l spread of t     | echnology       |
|----|------------|----------------------|-------------------------|--|--------------------|-------------------|-----------------|
| SN | Enterprise | Thematic Area        | Technology demonstrated | the Extension system                             | No. of<br>villages | No. of<br>farmers | Area in<br>(ha) |
| 1  | Paddy      | Basmati Rice         | Pusa Basmati-1885       | FLD, Training, Field day, electronic/print media | 150                | 680               | 550             |
| 2  | Wheat      | Timely sown          | DBW-187                 | FLD, Training, Field day, electronic/print media | 1500               | 4500              | 66500           |
|    |            | Late sown            | DBW-173                 | FLD, Training, Field day, electronic/print media | 380                | 3800              | 15700           |
| 3  | Mustard    | Varietal development | Pusa Mustard – 31       | FLD, Training, Field day, electronic/print media | 105                | 290               | 3350            |
| 4  | Lentil     | Varietal development | Pusa Masoor Ageti       | FLD, Training, Field day, electronic/print media | 44                 | 115               | 610             |
| 5  | Sugarcane  | Varietal development | Co - 15023              | FLD, Training, Field day, electronic/print media | 480                | 1550              | 1110            |

| b.   | <b>Details of FI</b> | Ds implemented            |  |              |          |        |        |            |        |                             |
|------|----------------------|---------------------------|--|--------------|----------|--------|--------|------------|--------|-----------------------------|
|      |                      |                           |  | Season and   | Area     | (ha)   | No. of | farmers/ d | lemon. | <b>Reasons for</b>          |
| SN   | Сгор                 | Thematic area             | Technology Demonstrated  | year         | Proposed | Actual | SC/ST  | Others     | Total  | shortfall in<br>achievement |
| Clus | ter FLD              |                           |  |              |          |        |        |            |        |                             |
| 1    | Mustard (NFSM)       | ICM                       | Seed   | Rabi 2022-23 | 20.0     | 20.0   | -      | 50         | 50     |                             |
| 2    | Till (NFSM)          | ICM                       | Seed   | Kharif 2023  | 10.0     | 10.0   | -      | 25         | 25     |                             |
| 3    | Lentil (NFSM)        | ICM                       | Seed   | Rabi 2022-23 | 20.0     | 20.0   | -      | 50         | 50     |                             |
| 4    | Urd (NFSM)           | ICM                       | Seed   | Kharif 2023  | 20.0     | 20.0   | -      | 50         | 50     |                             |
| 5    | Mustard (NFSM)       | ICM                       | Seed (Result Awaited)  | Rabi 2023-24 | 30.0     | 30.0   | -      | 75         | 75     |                             |
| 6    | Lentil (NFSM)        | ICM                       | Seed (Result Awaited)  | Rabi 2023-24 | 26.0     | 26.0   | -      | 63         | 63     |                             |
|      | Total                |                           |  |              | 126.0    | 126.0  | -      | 313        | 313    |                             |
| Othe | er FLD               |                           |  |              |          |        |        |            |        |                             |
| 7    | Sugarcane            | VE                        | To demonstrate the yield potential of new sugarcane variety  | Zaid 2022    | 2.0      | 2.0    |        | 05         | 05     |                             |
| 8    | Wheat                | Varietal<br>Demonstration | To demonstrate the yield potential & popularization high yielding bio-fortified wheat variety DBW-187.                 | Rabi 2022-23 | 5.0      | 2.0    | 4      | 16         | 20     |                             |
| 9    | Wheat                | Varietal<br>Demonstration | To demonstrate the yield potential & popularization<br>high yielding late sown bio-fortified wheat variety<br>HD-3298. | Rabi 2022-23 | 5.0      | 1.0    | 1      | 9          | 10     |                             |

| 10 | Wheat                  | Weed Management                | To demonstrate the efficacy of suitable weedicide<br>(Clodinafop 15% WP + Metsulfuron methyl 20%<br>WP) for better yield in wheat. | Rabi 2022-23 | 8.0  | 8.0  | 2 | 8  | 10 |  |
|----|------------------------|--------------------------------|--|--------------|------|------|---|----|----|--|
| 11 | Barley                 | Varietal<br>Demonstration      | To demonstrate the yield potential & popularization high yielding Barley variety.  | Rabi 2022-23 | 2.0  | 2.0  | 1 | 4  | 5  |  |
| 12 | Onion                  | Varietal<br>Demonstration      | To demonstrate the yield potential & popularization<br>Onion variety NHRDF-3.  | Rabi 2022-23 | 0.4  | 0.4  | 2 | 8  | 10 |  |
| 13 | Cauliflower            | Integrated nutrient management | Demonstration of Micronutrient (Boron) in Cauliflower.   | Rabi 2022-23 | 0.5  | 0.5  | 1 | 5  | 6  |  |
| 14 | Kitchen Garden         | Nutritional security           | Seed of vegetables & Vermi-compost.  | Rabi 2022-23 | 0.2  | 0.2  |   | 20 | 20 |  |
| 15 | Mushroom<br>Production | Income generation              | Demonstration of Mushroom for income securing.   | Rabi 2022-23 |      |      | 3 | 7  | 10 |  |
| 16 | Kitchen Garden         | Nutritional security           | Seed of vegetables & Vermi-compost.  | Zaid 2023    | 0.2  | 0.2  |   | 20 | 20 |  |
| 17 | Tomato                 | VE                             | To demonstrate the yield potential of Tomato variety   | Zaid 2023    | 0.4  | 0.4  |   | 10 | 10 |  |
| 18 | Bottlegourd            | VE                             | To demonstrate the yield potential of Bottle gourd variety   | Zaid 2023    | 0.4  | 0.4  |   | 06 | 06 |  |
| 19 | Sugacane               | IDM                            | To demonstrate the efficacy of suitable fungicide against Red rot in sugarcane ( <b>Result Awaited</b> )                           | Zaid 2023    | 6.0  | 6.0  |   | 15 | 15 |  |
| 20 | Sugacane               | IPM                            | To demonstrate the efficacy of suitable inceticide against Top borer in sugarcane ( <b>Result Awaited</b> )                        | Zaid 2023    | 4.0  | 4.0  |   | 10 | 10 |  |
| 21 | Sugarcane              | VE                             | To demonstrate the yield potential of new sugarcane variety ( <b>Result Awaited</b> )  | Ziad 2023    | 2.0  | 2.0  |   | 05 | 05 |  |
| 22 | Rice                   | VE                             | To demonstrate the yield potential & popularization high yielding basmati variety PB-1885.   | Kharif 2023  | 5.0  | 5.0  |   | 25 | 25 |  |
| 23 | Rice                   | IWM                            | To demonstrate the efficacy of weedicide   | Kharif 2023  | 4.0  | 4.0  |   | 10 | 10 |  |
| 24 | Small Millets          | VE                             | Demonstration and popularization of small millets in district  | Kharif 2023  | 20.0 | 20.0 |   | 55 | 55 |  |
| 25 | Rice                   | IPM                            | Management of BPH in rice  | Kharif 2023  | 4.0  | 4.0  |   | 10 | 10 |  |
| 26 | Rice                   | IDM                            | Management of Blast in rice  | Kharif 2023  | 4.0  | 4.0  |   | 10 | 10 |  |
| 27 | Chilly                 | VE                             | To demonstrate the yield potential of Chilly variety   | Kharif 2023  | 4.0  | 4.0  |   | 10 | 10 |  |
| 28 | Kitchen Garden         | Nutritional security           | Seed of vegetables & Vermi-compost   | Kharif 2023  | 0.4  | 0.4  |   | 40 | 40 |  |
| 29 | Sugarcane              | Nursery Plantation             | Nursery plantation under late sown condition in sugarcane ( <b>Result Awaited</b> ).   | Rabi 2023-24 | 1.0  | 1.0  | 2 | 23 | 25 |  |
| 30 | Sugarcane +<br>Mustard | ICM                            | Demonstration of Mustard as intercrop in Sugarcane for better income security ( <b>Result Awaited</b> ).                           | Rabi 2023-24 | 8.0  | 8.0  | 5 | 15 | 20 |  |

| 31 | Wheat          | VE                   | To demostrate the yield potencial of bio-fortified<br>wheat variety DBW-327 for timely sown condition<br>( <b>Result Awaited</b> ) | Rabi 2023-24 | 4.0   | 1.0   |    | 20  | 10  |  |
|----|----------------|----------------------|--|--------------|-------|-------|----|-----|-----|--|
| 32 | Wheat          | VE                   | To demostrate the yield potencial of bio-fortified<br>wheat variety HD-3298 for late sown condition<br>( <b>Result Awaited</b> )   | Rabi 2023-24 | 4.0   | 4.0   |    | 20  | 20  |  |
| 33 | Kitchen Garden | Nutritional security | Seed of vegetables & Vermi-compost ( <b>Result</b><br><b>Awaited</b> )   | Rabi 2023-24 | 0.4   | 0.4   |    | 40  | 40  |  |
|    | Total          |                      |  |              | 94.9  | 84.9  | 21 | 426 | 437 |  |
|    | Grand Total    |                      |  |              | 220.9 | 210.9 | 21 | 739 | 750 |  |

| <b>Details of farming sit</b> | uation       |                             |           |    |           |     |               |               |               |               |                      |
|-------------------------------|--------------|-----------------------------|-----------|----|-----------|-----|---------------|---------------|---------------|---------------|----------------------|
|                               |              | Farming                     |           | St | atus of s | oil |               |               |               | Seasonal      | No. of rainy<br>days |
| Сгор                          | Season       | situation<br>(RF/Irrigated) | Soil type | N  | Р         | K   | Previous crop | Sowing date   | Harvest date  | rainfall (mm) | days                 |
| Cluster FLD                   |              |                             |           |    |           |     |               |               |               |               |                      |
| Mustard (NFSM)                | Rabi 2022-23 | Irrigated                   | Loam      | L  | М         | L   | Paddy         | 15-25-10.2022 | 25-30.03.2023 |               |                      |
| Till (NFSM)                   | Kharif 2023  | Irrigated                   | Loam      | L  | М         | L   | Wheat         | 20-25.07.2023 | 15-18.10.2023 |               |                      |
| Lentil (NFSM)                 | Rabi 2022-23 | Irrigated                   | Loam      | L  | М         | L   | Paddy         | 27-31.10.2022 | 15-20.03.2023 |               |                      |
| Urd (NFSM)                    | Kharif 2023  | Irrigated                   | Loam      | L  | М         | L   | Wheat         | 18-25.07.2023 | 25-30.10.2023 |               |                      |
| Other FLD                     |              |                             |           |    |           |     |               |               |               |               |                      |
| Sugarcane                     | Zaid 2022    | Irrigated                   | Loam      | L  | М         | L   | Mustard       | 15-18.03.2022 | 10-15.02.2023 |               |                      |
| Wheat (DBW-187)               | Rabi 2022-23 | Irrigated                   | Loam      | L  | М         | L   | Paddy         | 08-15.11.2022 | 05-12.04.2023 |               |                      |
| Wheat (HD-3298)               | Rabi 2022-23 | Irrigated                   | Loam      | L  | М         | L   | Sugarcane     | 02-05.01.2023 | 04-10.04.2023 |               |                      |
| Wheat (WM)                    | Rabi 2022-23 | Irrigated                   | Loam      | L  | М         | L   | Paddy         | 25-30.11.2022 | 07-15.04.2023 |               |                      |
| Barley                        | Rabi 2022-23 | Irrigated                   | Loam      | L  | М         | L   | Paddy         | 15-20.11.2022 | 08-12.04.2023 |               |                      |
| Onion                         | Rabi 2022-23 | Irrigated                   | Loam      | L  | М         | L   | Paddy         | 25-30.10.2022 | 05-10.05.2023 |               |                      |
| Cauliflower                   | Rabi 2022-23 | Irrigated                   | Loam      | L  | М         | L   | Paddy         | 15-20.10.2022 | 15-30.01.2023 |               |                      |
| Kitchen Garden                | Rabi 2022-23 | Irrigated                   | Loam      | L  | М         | L   |               | 10-12.10.2022 | 10-15.02.2023 |               |                      |
| Mushroom                      | Rabi 2022-23 | Irrigated                   | Loam      | L  | М         | L   |               | 30.12.2022    | 01-28.02.2023 |               |                      |
| Kitchen Garden                | Zaid 2023    | Irrigated                   | Loam      | L  | М         | L   |               | 20-25.02.2023 | 10-15.04.2023 |               |                      |

| Tomato         | Zaid 2023   | Irrigated | Loam | L | М | L | Mustard | 15-20.02.2023 | 12-18.04.2023 | <br> |
|----------------|-------------|-----------|------|---|---|---|---------|---------------|---------------|------|
| Bottlegourd    | Zaid 2023   | Irrigated | Loam | L | М | L | Mustard | 10-15.02.2023 | 15-20.04.2023 | <br> |
| Rice-VE        | Kharif 2023 | Irrigated | Loam | L | М | L | Wheat   | 20-25.06.2023 | 25-30.10.2023 | <br> |
| Rice-IWM       | Kharif 2023 | Irrigated | Loam | L | М | L | Wheat   | 10-15.07.2023 | 20-25.10.2023 | <br> |
| Small Millets  | Kharif 2023 | Irrigated | Loam | L | М | L | Wheat   | 01-05.07.2023 | 25-30.10.2023 | <br> |
| Rice-IPM       | Kharif 2023 | Irrigated | Loam | L | М | L | Wheat   | 10-15.09.2023 | 18-25.10.2023 | <br> |
| Rice-IDM       | Kharif 2023 | Irrigated | Loam | L | М | L | Wheat   | 05-10.09.2023 | 20-25.10.2023 | <br> |
| Chilly         | Kharif 2023 | Irrigated | Loam | L | М | L | Wheat   | 01-07.07.2023 | 28-30.10.2023 | <br> |
| Kitchen Garden | Kharif 2023 | Irrigated | Loam | L | М | L |         | 15.07.2023    | 27.09.2023    | <br> |

| Exte | Extension and Training activities under FLD |                             |                             |                        |         |  |  |  |  |  |  |  |
|------|---|-----------------------------|-----------------------------|------------------------|---------|--|--|--|--|--|--|--|
| SN   | Activity                                    | No. of activities organised | Date                        | Number of participants | Remarks |  |  |  |  |  |  |  |
| 1    | Field days                                  | 25                          | As per crop harvesting days | 1800                   |         |  |  |  |  |  |  |  |
| 2    | Farmers Trainings                           | 40                          |                             | 800                    |         |  |  |  |  |  |  |  |
| 3    | Media Coverage                              | 38                          |                             |                        |         |  |  |  |  |  |  |  |
| 4    | Training for extension functionaries        | 20                          |                             | 400                    |         |  |  |  |  |  |  |  |

#### **Performance of Frontline demonstrations** Frontline demonstrations on Oilseed Crops

|         | rea        | gy<br>ted              |         | ners        |              | Parameters name  | Result of main parameter |            |         | ameter       | age       | Yield (q/ha) |      |         | e in  | Economi             | cs of demo    | f demonstration (Rs./ha) |            |              | Economics of check<br>(Rs./ha) |                 |            |              |
|---------|------------|------------------------|---------|-------------|--------------|--|--------------------------|------------|---------|--------------|-----------|--------------|------|---------|-------|---------------------|---------------|--------------------------|------------|--------------|--------------------------------|-----------------|------------|--------------|
| Сгор    | Thematic A | Technolog<br>demonstra | Variety | No. of Farn | Area<br>(ha) | of tillers, No. of pods<br>or grains per plant,<br>duration (days), No.<br>of plants/sq mt.) | High                     | row<br>Low | Average | Check plot % | % Advant: | High         | Low  | Average | Check | % Increase<br>yield | Gross<br>Cost | Gross<br>Return          | Net Return | BCR<br>(R/C) | Gross<br>Cost                  | Gross<br>Return | Net Return | BCR<br>(R/C) |
| Mustard |            |                        |         |             |              |  |                          |            |         |              |           |              |      |         |       |                     |               |                          |            |              |                                |                 |            |              |
| Mustard | ICM        | Seed                   | PM-33   | 50          | 20           | Disease Incedence  | -                        | -          | 0%      | 5-12%        | 100       | 22.5         | 17.5 | 19.45   | 11.96 | 62.62               | 31819         | 126457                   | 94638      | 3.97         | 30683                          | 94638           | 63955      | 3.08         |
| Till    |            |                        |         |             |              |  |                          |            |         |              |           |              |      |         |       |                     |               |                          |            |              |                                |                 |            |              |
| Till    | ICM        | Seed                   | Shakher | 25          | 10           |  | -                        | -          | -       | 8-15%        | -         | 12.50        | 8.50 | 10.26   | 6.50  | 70.14               | 28416         | 88792                    | 60376      | 3.22         | 27534                          | 52160           | 32843      | 2.19         |

| Farr | armers' reactions on the demonstrated technologies  |    |  |  |  |  |  |  |  |  |  |
|------|---|----|--|--|--|--|--|--|--|--|--|
| SN   | Feedback for researchers  | Fe | eedback for line department  |  |  |  |  |  |  |  |  |
| 1    | There is basic need to develop high yielding, disease resistance and area specifice varieties of oilseed crops. | •  | District line departments should be more focus on ICM technologies with suitable high yielding variety i.e PM-33<br>District line departments should be more focus on ICM technologies with suitable high yielding variety i.e Shekhar |  |  |  |  |  |  |  |  |

#### **Technical feedback on specific technologies demonstrated in FLDs**

# SN Feed back

- Timely nutrient management and used high yielding varieties increase the till yield.
- 2 Disease incidence in PM-33 is not seen while it is about 5-8% in Check variety.
  - Better yield of PM-33 against check variety.

1

• Timely nutrient management and used high yielding bio-fortified varieties increase the mustard yield.







#### **Frontline demonstrations on Pulse Crops**

| _      | latic<br>ea | ology<br>trated | ety    | of<br>iers  | ea<br>1)   | Parameters name<br>(No. of branches, No.<br>of tillers, No. of pods | Resu<br>D | sult of main para |             | parameter     |        | Yield (q/ha) Demo |       |             |       | ease in<br>Id   | Econ          | omics of demonstration<br>(Rs./ha) |               | ration       | Economics of check<br>(Rs./ha) |                 |               |              |
|--------|-------------|-----------------|--------|-------------|------------|---|-----------|-------------------|-------------|---------------|--------|-------------------|-------|-------------|-------|-----------------|---------------|------------------------------------|---------------|--------------|--------------------------------|-----------------|---------------|--------------|
| Сгор   | Them<br>Are | Technodemons    | Vari   | No.<br>Farn | Arc<br>(ha | or grains per plant,<br>duration (days), No.<br>of plants/sq mt.)   | High      | Low               | Aver<br>age | Check<br>plot | % Adva | High              | Low   | Aver<br>age | Check | % Incre<br>yiel | Gross<br>Cost | Gross<br>Return                    | Net<br>Return | BCR<br>(R/C) | Gross<br>Cost                  | Gross<br>Return | Net<br>Return | BCR<br>(R/C) |
| Lentil |             |                 |        |             |            |   |           |                   |             |               |        |                   |       |             |       |                 |               |                                    |               |              |                                |                 |               |              |
| Lentil | ICM         | Seed            | L-4717 | 50          | 20         | Crop duration   | -         | -                 | 105         | 135           | -      | 18.75             | 15.0  | 16.52       | 11.18 | 39.40           | 32182         | 115800                             | 83618         | 3.08         | 32663                          | 67110           | 34447         | 2.04         |
| Urd    |             |                 |        |             |            |   |           |                   |             |               |        |                   |       |             |       |                 |               |                                    |               |              |                                |                 |               |              |
| Urd    | ICM         | Seed            | PU-9   | 50          | 20         |   | -         | -                 | 0-6         | 3-8           | -      | 18.00             | 15.63 | 17.04       | 14.41 | 18.25           | 32790         | 118463                             | 85673         | 3.61         | 31547                          | 100185          | 68638         | 2.19         |

| Farr | armers' reactions on the demonstrated technologies   |  |  |  |  |  |  |  |  |  |  |
|------|--|--|--|--|--|--|--|--|--|--|--|
| SN   | Feedback for researchers   | Feedback for line department   |  |  |  |  |  |  |  |  |  |
| 1    | There is basic need to develop high yielding,<br>disease resistance and area specifice varieties<br>of pulses crops. | <ul> <li>District line departments should be more focus on ICM technologies with suitable high yielding variety i.e L-4717 in Lentil crop</li> <li>District line departments should be more focus on ICM technologies with suitable high yielding variety i.e PU-9 in Urd crop (till the release of suitable newly high yielding variety)</li> </ul> |  |  |  |  |  |  |  |  |  |

#### Technical feedback on specific technologies demonstrated in FLDs

SN

Feed back

#### • Variety L-4717 takes less crop duration (101-104) as comparison to check (125-130). Due to this crop duration it is suitable for adverse environment condition and for Sugarcane 1 cropping system.

- Disease incidence in L-4717 is none while it is about 9-17% in Check. ٠
- 2 Disease incidence in PU-9 is less (0-6%) while it is about 3-8% in Check. ٠



GPS Map Camera

| FLD on              | Other | Crops          |                 |          |           |   |      |         |         |               |       |        |        |         |          |              |               |                    |                   |              |               |                   |                 |              |
|---------------------|-------|----------------|-----------------|----------|-----------|---|------|---------|---------|---------------|-------|--------|--------|---------|----------|--------------|---------------|--------------------|-------------------|--------------|---------------|-------------------|-----------------|--------------|
|                     | Area  | gy<br>ited     |                 | ners     |           | Parameters name<br>(No. of branches, No.                          | Resu | lt of m | ain par | ameter        | age   |        | Yield  | (q/ha)  |          | e in         | Econ          | omics of (<br>(Rs. | demonstra<br>/ha) | ation        | F             | conomics<br>(Rs.) | of check<br>ha) | I            |
| Cron                | tic A | olo            | iety            | arn      | ea<br>(a) | of tillers, No. of pods   | D    | emo pl  | ot      |               | ant   |        | Demo   |         | <b>,</b> | reas         |               |                    | E                 |              |               |                   | LI              |              |
| Crop                | Thema | Techr<br>demon | Var             | No. of I | Ч.<br>Ч.  | or grains per plant,<br>duration (days), No.<br>of plants/sq mt.) | High | Low     | Average | Check<br>plot | vbA % | High   | Low    | Average | Check    | % Incı<br>yi | Gross<br>Cost | Gross<br>Retur     | Net Reti          | BCR<br>(R/C) | Gross<br>Cost | Gross<br>Retur    | Net Retu        | BCR<br>(R/C) |
| Cereals             |       |                |                 |          |           |   |      |         |         |               |       |        |        |         |          |              |               |                    |                   |              |               |                   |                 |              |
| Wheat               |       |                |                 |          |           |   |      |         |         |               |       |        |        |         |          |              |               |                    |                   |              |               |                   |                 |              |
| Wheat               | VE    | Seed           | DBW-187         | 20       | 2.0       | Disease incidence   | -    | -       | 0%      | 5-8%          | -     | 65.00  | 50.00  | 56.25   | 43.55    | 29.10        | 48597         | 172147             | 123550            | 3.25         | 49565         | 123550            | 73985           | 2.49         |
| Wheat               | VE    | Seed           | HD-3298         | 10       | 1.0       | Crop Duration   | -    | -       | 107     | 125           | -     | 47.50  | 35.50  | 42.75   | 36.20    | 18.09        | 47520         | 122062             | 74542             | 2.56         | 48550         | 105880            | 57330           | 2.18         |
| Wheat               | WM    | Chemical       | HD-2967         | 10       | 8.0       | Weed population   | -    | -       | 2.7     | 44.5          | -     | 49.80  | 48.00  | 49.00   | 43.63    | 12.39        | 49610         | 136660             | 87050             | 2.75         | 48211         | 123528            | 75317           | 2.56         |
| Barely              |       |                |                 |          |           |   |      |         |         |               |       |        |        |         |          |              |               |                    |                   |              |               |                   |                 |              |
| Barely              | VE    | Seed           | DWRB-137        | 5        | 2.5       |   |      |         |         |               |       | 41.25  | 36.87  | 38.75   |          |              | 39475         | 127037             | 87562             | 3.21         |               |                   |                 |              |
| Paddy               |       |                |                 |          |           |   |      |         |         |               |       |        |        |         |          |              |               |                    |                   |              |               |                   |                 |              |
| Basmati Rice        | VE    | Seed           | PB-1885         | 25       | 5         | Disease incidence   | -    | -       | 0-3     | 8-18          | -     | 61.25  | 47.50  | 53.30   | 41.74    | 27.70        | 48504         | 183380             | 134476            | 3.93         | 49110         | 146364            | 97254           | 2.98         |
| Rice                | WM    | Chemical       | Arize-6444      | 10       | 4         | Weed population   | -    | -       | 5-11    | 45-52         | -     | 54.00  | 42.00  | 48.75   | 42.50    | 14.70        | 48800         | 122375             | 73575             | 2.5          | 47500         | 109250            | 61750           | 2.30         |
| Rice                | IPM   | Chemical       | PB-1121         | 10       | 4         | Insect incidence  | -    | -       | 0-6     | 9-20          | -     | 48.75  | 42.50  | 45.12   | 38.17    | 17.59        | 48505         | 156525             | 108020            | 3.22         | 47410         | 133015            | 85610           | 2.80         |
| Rice                | IDM   | Chemical       | PB-1121         | 10       | 4         | Disease incidence   | -    | -       | 0-5     | 9-16          | -     | 50.00  | 43.75  | 46.50   | 38.62    | 20.40        | 48370         | 161350             | 112980            | 3.33         | 47420         | 134275            | 86855           | 2.83         |
| Vegetable           |       |                |                 |          |           |   |      |         |         |               |       |        |        |         |          |              |               |                    |                   |              |               |                   |                 |              |
| Onion               | VE    | Seed           | NHRDF<br>RED- 3 | 10       | 0.4       |   |      |         |         |               |       | 305    | 280    | 290     | 245      | 18.36        | 95000         | 290000             | 195000            | 3.05         | 96500         | 245000            | 148500          | 2.54         |
| Cauliflower         | INM   | Boron          | Boron           | 6        | 0.5       |   |      |         |         |               |       | 310.50 | 275.5  | 280.5   | 215      | 11.32        | 78000         | 140250             | 62250             | 1.8          | 76500         | 107500            | 31000           | 1.41         |
| Tomato              | VE    | Seed           | Arka<br>Rakshak | 10       | 10        |   |      |         |         |               |       | 585    | 535    | 560     | 470      | 19.14        | 75500         | 560000             | 484500            | 7.41         | 72500         | 470000            | 397500          | 6.48         |
| Bottle gourd        | VE    | Seed           | Kashi<br>Ganga  | 06       | 0.5       |   |      |         |         |               |       | 390    | 360    | 375     | 295      | 27.1         | 68500         | 337500             | 269000            | 4.92         | 64300         | 236000            | 171700          | 3.67         |
| Commercial<br>Crops |       |                |                 |          |           |   |      |         |         |               |       |        |        |         |          |              |               |                    |                   |              |               |                   |                 |              |
| Sugarcane           | VE    | Seed           | Co-15023        | 05       | 2.0       | Disease incidence   |      |         | 3%      | 55%           |       | 1470.0 | 1150.0 | 1350.0  | 1250.0   | 8.0          | 114500        | 438750             | 324250            | 3.82         | 128000        | 406250            | 278250          | 3.17         |

# Farmers' reactions on the demonstrated technologies

| SN | Feedback for researchers  | Fe | edback for line department  |
|----|---|----|---|
| 1  | There is basic need to develop high yielding, disease resistance and area specifice varieties of wheat crops. | •  | District line departments should be more focus on wheat variety DBW-187 due to their high yielding potencial at farmer's field with good nutrietional quality in timely shown conditions. |

|   |   | • | District line departments should be more focus on wheat variety HD-3298 due to their high yielding potencial at farmer's field with good nutrietional quality in very late shown conditions. |
|---|---|---|--|
| 2 | There is basic need to conduct newly chemicals for managing weeds in wheat crops.                                       | • | District line departments should be more focus on tecchnology Clodinafop 15% WP + Metsulfuron methyl 20% WP for managing all weeds.  |
| 3 | There is basic need to develop high yielding, disease resistance and area specifice varieties of basmati variety crops. | • | District line departments should be more focus on Basmati variety PB-1885 due to their high yielding potencial at farmer's field with good market value.                                     |
| 4 | There is basic need to conduct newly chemicals for managing weeds in rice crops.  | • | District line departments should be more focus on tecchnology Bispyriback sodium for managing all weeds.   |
| 5 | There is basic need to develop high yielding, disease resistance and area specifice varieties of sugarcane crops.       | • | District line departments should be more focus on sugarcane variety Co-15023 due to their high yielding potencial and resistance agianest red rot diseases.                                  |

| Tec | Fechnical feedback on specific technologies demonstrated in FLDs  |  |  |  |  |  |  |  |
|-----|---|--|--|--|--|--|--|--|
| SN  | Feed back   |  |  |  |  |  |  |  |
| 1   | <ul> <li>Wheat variety DBW-187 takes more or less crop duration (140-145) as comparison to PBW-550 (141-146). Due to this crop duration it is suitable for adverse environment condition.</li> <li>Disease incidence in DBW-187 is not seen while it is about 5-15% in PBW-550.</li> <li>Lodging in DBW-187 is less (0-3%) as comparison PBW-550 (10-18%).</li> </ul> |  |  |  |  |  |  |  |
| 2   | <ul> <li>Wheat variety HD-3298 is resistant to temperature fluctuation. Due to this crop is suitable for adverse environment condition.</li> <li>Disease incidence in HD-3298 is not seen while it is about 6-13% in PBW-226.</li> <li>Lodging in HD-3298 is less (0-5%) as comparison PBW-226 (8-14%) due to its short stature of plant.</li> </ul>                  |  |  |  |  |  |  |  |
| 3   | <ul> <li>Weeds are developed resistance against old weedicies (Isoproturon).</li> <li>There is no any phytotoxic effect of that weedicides Clodinafop &amp; Metsulfuron methyl.</li> </ul>  |  |  |  |  |  |  |  |
| 4   | <ul> <li>Basmati variety PB-1885 takes more or less crop duration (140-145) as comparison to PB-1121 (141-146).</li> <li>Disease incidence in PB-1885 is less seen while it is about 8-18% in PB-1121.</li> <li>Lodging in PB-1885 is less (0-6%) as comparison PB-1121 (9-17%).</li> </ul>   |  |  |  |  |  |  |  |
| 5   | <ul> <li>Weeds are developed resistance against old weedicies (Machety).</li> <li>There is no any phytotoxic effect of that weedicides Bispyriback sodium.</li> </ul>   |  |  |  |  |  |  |  |
| 6   | • Red root incidence in Co-15023 is less while it is about 40-70% in Co-0238.   |  |  |  |  |  |  |  |

| FI | D | on C | )ther | enter  | prises |
|----|---|------|-------|--------|--------|
| _  |   |      |       | CHICCH | PIIDCL |

| r LD on Other ente  | er prises                                 |                  |       |                     |       |           |          |          |               |                      |                      |              |   |                 |               |              |  |
|---------------------|---|------------------|-------|---------------------|-------|-----------|----------|----------|---------------|----------------------|----------------------|--------------|---|-----------------|---------------|--------------|--|
| Catagory            | Name of the<br>technology<br>demonstrated | No. of<br>Farmer | No.of | Major<br>parameters |       | % change  | Other pa | arameter | Econor        | mics of der<br>or Rs | nonstratio<br>./unit | n (Rs.)      | Economics of check<br>(Rs.) or Rs./unit |                 |               |              |  |
| Category            |   |                  | units | Demo                | Check | parameter | Demo     | Check    | Gross<br>Cost | Gross<br>Return      | Net<br>Return        | BCR<br>(R/C) | Gross<br>Cost                           | Gross<br>Return | Net<br>Return | BCR<br>(R/C) |  |
| Button Mushroom     |   |                  |       |                     |       |           |          |          |               |                      |                      |              |   |                 |               |              |  |
| Mushroom production | Spawn, Compost & formalin                 | 20               | 20    | 2.75                | 1.5   | 83.33     |          |          | 140           | 550                  | 410                  | 3.92         | 170                                     | 300             | 130           | 1.76         |  |

Annual Progress Report (Jan-Dec.2023)

#### Farmers reactions on the demonstrated technologies (by KVK Scientist who conducted the FLD)

| SN | Feed Back for researchers | Feedback for line department  |
|----|---------------------------|---|
| 1  |                           | District line departments should be more focus on tecchnology mushroom producation at farmer's field. |

# Technical feedback on specific technologies demonstrated in FLDs

#### SN Feed Back

1 Income increased due to new entrepreneurship.

#### FLD on Other Enterprise: Kitchen Gardening

|                      |                      | Name of the                          |                  | N. C            | Yield (Kg) %     |        | Other pa           | rameters | Economics of demonstration (Rs./ha) |               |                 | Economics of check (Rs./ha) |              |               |                 |               |              |
|----------------------|----------------------|--------------------------------------|------------------|-----------------|------------------|--------|--------------------|----------|-------------------------------------|---------------|-----------------|-----------------------------|--------------|---------------|-----------------|---------------|--------------|
| Category and<br>Crop | area                 | technology<br>demonstrated           | No. of<br>Farmer | No. of<br>Units | Demons<br>ration | Check  | change<br>in yield | Demo     | Check                               | Gross<br>Cost | Gross<br>Return | Net<br>Return               | BCR<br>(R/C) | Gross<br>Cost | Gross<br>Return | Net<br>Return | BCR<br>(R/C) |
| Kitchen<br>Garden    | Nutritional security | Seed of vegetables<br>& Vermicompost | 20               | 10              | 228.00           | 180.00 | 180.00             | 228.00   | 180.00                              | 1890.00       | 5580.00         | 3690.00                     | 2.95         | 1755.00       | 3120.00         | 1365.00       | 1.78         |
| Kitchen<br>Garden    | Nutritional security | Seed of vegetables<br>& Vermicompost | 20               | 10              | 174.00           | 160.00 | 160.00             | 174.00   | 160.00                              | 1120.00       | 2770.00         | 1650.00                     | 2.47         | 1780.00       | 3180.00         | 1440.00       | 1.79         |
| Kitchen<br>Garden    | Nutritional security | Seed of vegetables<br>& Vermicompost | 40               | 20              | 95.00            | 80.00  | 88.77              | 73.82    | 20.25                               | 453.17        | 1793.97         | 1304.30                     | 3.95         | 345.77        | 855.95          | 504.75        | 2.47         |

| Far   | Farmers reactions on the demonstrated technologies (by KVK Scientist who conducted the FLD) |   |  |  |  |  |  |  |
|---|---|---|--|--|--|--|--|--|
| SN     Feed Back for researchers     Feedback for line department |   |   |  |  |  |  |  |  |
| 1   |   | District line departments should be more focus on prouduction and management of kitchen garden at farmer's field. |  |  |  |  |  |  |

#### Technical feedback on specific technologies demonstrated in FLDs

| SN | Feed Back  |  |  |  |  |  |  |
|----|--|--|--|--|--|--|--|
| 1  | • Improvement of self life of produce                        |  |  |  |  |  |  |
|    | Harvested produce better then market purchase                |  |  |  |  |  |  |
|    | Getting extra income though modern kitchen garden technology |  |  |  |  |  |  |



# **III.** Natural Farming

#### 1) Crop Harvesting Details

|         |                 |          |              |                 | Crop Details U                           | J <b>nder Demonstrat</b> | ion           |           |                 |  |               |               |
|---------|-----------------|----------|--------------|-----------------|--|--------------------------|---------------|-----------|-----------------|--|---------------|---------------|
| Name of |                 | Natur    | al farmin    | g               |  |                          | Farm          | Date of   | Date of         |  |               |               |
| KVK     | Name of<br>Crop | Variety  | Area<br>(ha) | Yield<br>(Q/ha) | Total Cost of<br>Cultivation<br>(Rs./ha) | Name of crop             | Variety       | Area (ha) | Yield<br>(Q/ha) | Total Cost of<br>Cultivation<br>(Rs./ha) | Sowing        | Harvesting    |
| Bijnor  | Wheat           | DBW-187  | 3.6          | 35.89           | 17933                                    | Wheat                    | DBW-187       | 3.6       | 53.30           | 48355                                    | 10-12.11.2022 | 08-14.04.2023 |
| Bijnor  | Sugarcane       | Co-15023 | 2.8          |                 |  | R                        | esult awaited |           |                 |  | 20-22.03.2023 |               |
| Bijnor  | Basmati Rice    | PB-1847  | 0.4          | 32.00           | 34500                                    | Basmati Rice             | PB-1847       | 0.4       | 42.50           | 48800                                    | 06.07.2023    | 18.10.2023    |
| Bijnor  | Wheat           | DBW-187  | 3.6          |                 | Result awaited                           |                          |               |           |                 |  |               |               |

### 2) Preliminary Soil Data of Natural Farming Field

| Nama af | Soil data of              | of Soil Analysis |           |           |                             | Micronutrients |               |               |  | Microbial Analysis           |                 |                         |                                     |                    |
|---------|---------------------------|------------------|-----------|-----------|-----------------------------|----------------|---------------|---------------|--|------------------------------|-----------------|-------------------------|-------------------------------------|--------------------|
| KVK     | Demonstrated/<br>KVK Plot | N (Kg/ha)        | P (Kg/ha) | K (Kg/ha) | Organic<br>Carbon<br>(%age) | Ca<br>(Kg/ha)  | Mg<br>(Kg/ha) | Zn<br>(Kg/ha) | Others   | Bacterial<br>count<br>(Nos.) | Fungi<br>(Nos.) | Actinomycetes<br>(Nos.) | Phosphorus<br>Solubilizer<br>(Nos.) | N Fixers<br>(Nos.) |
| Bijnor  | KVK                       | 261              | 26.2      | 108.4     | 0.42                        |                |               |               | Suiphar-7.5, Boron-0.4,<br>Fe-13.2, Mn-3.3, Cu-0.57,<br>Ph-7.1 & Ec-0.19 |                              |                 |                         |                                     |                    |

#### 3) Details of Demonstrations Conducted under Natural Farming Project

| S.<br>No. | Name of KVK | Name of village      | Name of farmer       | Mobile no. of<br>farmer | Area under<br>demonstration on Natural<br>Farming (ha) |
|-----------|-------------|----------------------|----------------------|-------------------------|--|
| 1         | Bijnor      | Sarifpur Koraj       | Pankaj Kumar         | 7017967454              | 0.4  |
| 2         | Bijnor      | Kalakheri            | Khub Singh           | 9456209631              | 0.4  |
| 3         | Bijnor      | Gohawar Jat          | Balraj Singh         | 9997765486              | 0.4  |
| 4         | Bijnor      | Athai Aheer          | Yaduveer Singh       | 9760602172              | 0.4  |
| 5         | Bijnor      | Neathor              | Ramendra Kr. Agarwal | 9411227885              | 0.4  |
| 6         | Bijnor      | Mirjalipur           | Suma Rani            | 9568446300              | 0.4  |
| 7         | Bijnor      | Dharmasanagli        | Vinod Kumar          | 9756852604              | 0.4  |
| 8         | Bijnor      | Pilana               | Rajeev Tyagi         | 6395588709              | 0.4  |
| 9         | Bijnor      | Krishi Vigyan Kendra | Krishi Vigyan Kendra | 8630602518              | 0.4  |

| 10 | Bijnor | Dalu Dhanaur         | Sarvendra Kumar      | 8077736042 | 0.4 |
|----|--------|----------------------|----------------------|------------|-----|
| 11 | Bijnor | Bagwada              | Ajay Kumar           | 7505132080 | 0.4 |
| 12 | Bijnor | Gadhiwan             | Aman Singh           | 9368504784 | 0.4 |
| 13 | Bijnor | Haijarpur            | Mahendra Singh       | 9760281521 | 0.4 |
| 14 | Bijnor | Prempuri             | Amreek Singh         | 8057156872 | 0.4 |
| 15 | Bijnor | Umri                 | Rituraj Singh        | 9376975750 | 0.4 |
| 16 | Bijnor | Krishi Vigyan Kendra | Krishi Vigyan Kendra | 8630602518 | 0.4 |

# 4) Information of Farmers already Practicing Natural Farming

| SI.<br>No. | Name of<br>the District | Name of the<br>Farmers | No. of desi<br>(indigenous)<br>cows | Land<br>holding<br>(ha) | Crops Grown                     | No. of<br>Years in<br>Natural<br>Farming | Area Covered<br>under Natural<br>Farming | Crops Grown under Natural<br>Farming | Any significant<br>achievements<br>under natural<br>farming |
|------------|-------------------------|------------------------|-------------------------------------|-------------------------|---------------------------------|--|--|--------------------------------------|---|
| 1          | Bijnor                  | Sharad Kumar           | 18                                  | 16                      | Wheat, Mustard, Lentil, Barley, | 01                                       | 2.5                                      | Wheat, Mustard, Lentil, Barley,      |   |
|            |                         |                        |                                     |                         | Paddy, Urd                      |  |  | Paddy, Urd                           |   |
| 2          | Bijnor                  | Mukesh Kumar           | 03                                  | 3.5                     | Wheat, Mustard, Lentil, Paddy,  | 01                                       | 1.0                                      | Wheat, Mustard, Lentil, Paddy,       |   |
|            |                         |                        |                                     |                         | Urd, Sugarcane                  |  |  | Urd, Sugarcane                       |   |
| 3          | Bijnor                  | Tikam Singh            | 02                                  | 2.0                     | Wheat, Mustard, Lentil, Paddy,  | 01                                       | 1.0                                      | Wheat, Mustard, Lentil, Paddy,       |   |
|            |                         |                        |                                     |                         | Urd, Sugarcane                  |  |  | Urd, Sugarcane                       |   |
| 4          | Bijnor                  | Aman Singh             | 05                                  | 2.0                     | Wheat, Mustard, Lentil, Paddy,  | 01                                       | 0.4                                      | Wheat, Mustard, Lentil, Potato,      |   |
|            |                         |                        |                                     |                         | Urd, Sugarcane                  |  |  | Paddy, Urd                           |   |
| 5          | Bijnor                  | Mukesh Kumar           | 03                                  | 3.0                     | Wheat, Mustard, Lentil, Paddy,  | 01                                       | 1.0                                      | Wheat, Mustard, Lentil, Paddy,       |   |
|            |                         |                        |                                     |                         | Urd, Sugarcane                  |  |  | Urd, Sugarcane                       |   |
| 6          | Bijnor                  | Chandra Sakher         | 02                                  | 2.0                     | Wheat, Mustard, Lentil, Paddy,  | 01                                       | 0.5                                      | Wheat, Mustard, Lentil, Paddy,       |   |
|            |                         |                        |                                     |                         | Urd, Sugarcane                  |  |  | Urd, Sugarcane                       |   |
| 7          | Bijnor                  | Ajay Pal Singh         | 02                                  | 2.5                     | Wheat, Mustard, Lentil, Paddy,  | 01                                       | 0.5                                      | Wheat, Mustard, Lentil, Paddy,       |   |
|            |                         |                        |                                     |                         | Urd, Sugarcane                  |  |  | Urd                                  |   |
| 8          | Bijnor                  | Munish Kumar           | 01                                  | 2.0                     | Wheat, Mustard, Lentil, Paddy,  | 01                                       | 0.4                                      | Wheat, Mustard, Lentil, Paddy,       |   |
|            |                         |                        |                                     |                         | Urd, Sugarcane                  |  |  | Urd, Sugarcane                       |   |
| 9          | Bijnor                  | Brahampal Singh        | 03                                  | 3.0                     | Wheat, Mustard, Lentil, Paddy,  | 01                                       | 2.0                                      | Wheat, Mustard, Lentil, Paddy,       |   |
|            |                         |                        |                                     |                         | Urd, Sugarcane                  |  |  | Urd, Sugarcane                       |   |
| 10         | Bijnor                  | Sarvendra Kumar        | 03                                  | 8.0                     | Wheat, Mustard, Lentil, Paddy,  | 01                                       | 1.0                                      | Wheat, Mustard, Lentil, Paddy,       |   |
|            |                         |                        |                                     |                         | Urd, Sugarcane                  |  |  | Urd                                  |   |
| 11         | Bijnor                  | Amrik Singh            | 04                                  | 8.0                     | Wheat, Mustard, Lentil, Paddy,  | 01                                       | 2.0                                      | Wheat, Mustard, Lentil, Zinger,      |   |
|            |                         |                        |                                     |                         | Urd, Sugarcane                  |  |  | Paddy, Urd, Sugarcane                |   |
| 12         | Bijnor                  | Mahendra Singh         | 01                                  | 1.25                    | Wheat, Mustard, Lentil, Paddy,  | 01                                       | 0.25                                     | Wheat, Mustard, Lentil, Paddy,       |   |
|            |                         |                        |                                     |                         | Urd, Sugarcane                  |  |  | Urd, Sugarcane                       |   |
| 13         | Bijnor                  | Gajendra Singh         | 01                                  | 1.25                    | Wheat, Mustard, Lentil, Paddy,  | 01                                       | 0.25                                     | Wheat, Mustard, Lentil, Paddy,       |   |
|            |                         |                        |                                     |                         | Urd, Sugarcane                  |  |  | Urd, Sugarcane                       |   |

| 14 | Bijnor | Vivek Kumar    | 02 | 8.00 | Wheat, Mustard, Lentil, Paddy,  | 01 | 1.00 | Wheat, Mustard, Lentil, Paddy,  |
|----|--------|----------------|----|------|---------------------------------|----|------|---------------------------------|
|    |        |                |    |      | Urd, Sugarcane                  |    |      | Urd, Sugarcane                  |
| 15 | Bijnor | Tarun Malik    | 03 | 2.0  | Wheat, Mustard, Lentil, Paddy,  | 01 | 2.00 | Wheat, Mustard, Lentil, Banana, |
|    |        |                |    |      | Urd, Sugarcane                  |    |      | Paddy, Urd, Sugarcane           |
| 16 | Bijnor | Ram Kumar      | 02 | 2.5  | Wheat, Mustard, Lentil, Paddy,  | 01 | 0.50 | Wheat, Mustard, Lentil, Paddy,  |
|    |        |                |    |      | Urd, Sugarcane                  |    |      | Urd, Sugarcane                  |
| 17 | Bijnor | Rituraj Singh  | 02 | 3.0  | Wheat, Mustard, Lentil, Barley, | 01 | 3.00 | Wheat, Mustard, Lentil, Barley, |
|    |        |                |    |      | Paddy, Urd, Sugarcane           |    |      | Paddy, Urd, Sugarcane, Banana,  |
|    |        |                |    |      |                                 |    |      | Dragon Fruit                    |
| 18 | Bijnor | Davendra Singh | 03 | 8.00 | Wheat, Mustard, Lentil, Paddy,  | 01 | 1.00 | Wheat, Mustard, Lentil, Paddy,  |
|    |        |                |    |      | Urd, Sugarcane                  |    |      | Urd, Sugarcane                  |
| 19 | Bijnor | Satish Kumar   | 01 | 2.00 | Wheat, Mustard, Lentil, Paddy,  | 01 | 1.00 | Wheat, Mustard, Lentil, Paddy,  |
|    |        |                |    |      | Urd, Sugarcane                  |    |      | Urd, Sugarcane                  |
| 20 | Bijnor | Subodh Kumar   | 02 | 2.00 | Wheat, Mustard, Lentil, Paddy,  | 01 | 1.00 | Wheat, Mustard, Lentil, Paddy,  |
|    |        |                |    |      | Urd, Sugarcane                  |    |      | Urd, Sugarcane                  |

### 5) Natural Farming Nodal officer & Associate Name

| SN | Name of KVK | Name of Head/SMS | Discipline/Subject | Mobile No. |
|----|-------------|------------------|--------------------|------------|
| 1  | Bijnor      | Dr. K. K. Singh  | Plant Breeding     | 8630602518 |
| 2  | Bijnor      | Dr. Shivangi     | Agronomy           | 9455005082 |
| 3  | Bijnor      | Dr. Pintoo Kumar | Plant Protection   | 9628289157 |



# **IV. Drone Project**

#### 1) Details of Drone Training

| ,    |                              |                            | 0                            |                    |                             |                           |                       |                              |                                   |                                       |                                   |                      |  |
|------|------------------------------|----------------------------|------------------------------|--------------------|-----------------------------|---------------------------|-----------------------|------------------------------|-----------------------------------|---------------------------------------|-----------------------------------|----------------------|--|
| S.No | Name of the<br>Institute/KVK | No. of<br>Drone<br>Alloted | No. of<br>Drones<br>Received | No. of<br>Trainees | Name of<br>RPTOs<br>(Pilot) | Designation<br>of Trainee | Mob No. of<br>Trainee | Email Id of Trainee          | Training<br>Institute             | Training<br>Status Done/<br>Scheduled | Passport<br>No. of the<br>Trainee | Training<br>Schedule | Remarks<br>about<br>Training<br>Schedule |
| 1    | Piinor                       | 1                          | 1                            | C                  | Dr.<br>Shivangi             | SMS<br>(Agronomy)         | 9455005082            | singhshivangi.agri@gmail.com | Drone<br>Destination,<br>Gurugram | Done                                  | Z4101541                          | Compiled             |  |
| 1    | ыјног                        | I                          | I                            | 2                  | Dr.<br>Bhupendra<br>Kumar   | Farm<br>Manager           | 9368651430            | bkdheeraniya75@gmail.com     | Drone<br>Destination,<br>Gurugram | Done                                  | U7634860                          | Compiled             |  |

#### 2) Details of Nodal officers under Drone Project

| S.No | Name of the Institute | Name of Nodal Officer | Contact No. | Email                        |  |
|------|-----------------------|-----------------------|-------------|------------------------------|--|
| 1    | SVPUA&T, Meerut       | Dr. Shivangi          | 9455005082  | singhshivangi.agri@gmail.com |  |
| 2    | SVPUA&T, Meerut       | Dr. Bhupendra Kumar   | 9368651430  | bkdheeraniya75@gmail.com     |  |

#### 3) Expenditure regarding Agri-Drone

| S.<br>No. | Name of KVK, ICAR<br>Institute and AU | No. of Drones allotted | No. of Drones<br>Purchased | Funds for purchase of<br>Drones@ Rs.10.0<br>lakh/drone | Funds for conducting<br>demonstration Rs. @<br>0.03 lakh/demo Rs. In<br>lakh | Total funds released<br>(Rs. In Lakh) | Funds utilized for<br>purchase of Drones<br>(Rs. In Lakh) | Funds utilized for<br>conducting<br>demonstration (Rs. In<br>Lakh) | Total Fund Utilized<br>(Rs. In Lakh) | Balance (Rs. In Lakh) | Percentage Utilization<br>of Released Budget | Target Area under<br>demonstration<br>(ha) | Area under herbicidal<br>spray (ha) | Area under<br>insecticidal spray (ha) | Area under fertilizer<br>spray (ha) | Area under nano-<br>fertilizer spray (ha) | Total target achieved<br>under demonstration<br>(ha) |
|-----------|---------------------------------------|------------------------|----------------------------|--|--|---------------------------------------|---|--|--------------------------------------|-----------------------|--|--|-------------------------------------|---------------------------------------|-------------------------------------|---|--|
| 1         | Bijnor                                | 1                      | 1                          | 10.00  | 7.50   | 17.50                                 | 9.98  |  | 9.98                                 | 7.52                  | 57%  | 250  |                                     | 20.00                                 |                                     |   | 20.00  |







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न्यूज डायरी



ड्रोन से छिड़काव का प्रदर्शन करते कृषि वैज्ञानिक। स्रोतः कृषि केंद्र

```
ट्टोन से कीटनाशक का छिड़काव करने की सलाह
नगीना। कृषि विज्ञान केंद्र की ओर से गांव हैकएएर रामपुर दास,
शरिष्पुर, बेलडी में गांच्छी की गई। कृषि विज्ञानिक डॉलडर केके सिंह ने
बतावा कि ड्रोन की महत्ता को बढ़ावा दिया आ रहा है। एक ड्रोन भारत
सरकार की ओर दिया गया है। इसके माध्यम से विभिन्न गांव में दवा का
छिड़काव किया जा रहा है। ड्रोन आंसेन्ट की प्रभारी डॉक्टर शिवांगी ने
बतावा गया कि भूविष्य में ड्रोन से खेती और आसान जे जाएगी। डॉ.
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# V. DAMU Project : NA

| Farmers' Training including sponsored Training Programmes (On Campus) |   |         |              |        |       |       |        |       |             |        |       |  |  |
|---|---|---------|--------------|--------|-------|-------|--------|-------|-------------|--------|-------|--|--|
|   |   | No. of  | Participants |        |       |       |        |       |             |        |       |  |  |
| Thematic area   | Actual Title of training conducted                                |         |              | Others |       | SC/ST |        |       | Grand Total |        |       |  |  |
| (May be specific to any given KVK)                                    |   | courses | Male         | Female | Total | Male  | Female | Total | Male        | Female | Total |  |  |
| I Crop Production   |   |         |              |        |       |       |        |       |             |        |       |  |  |
| Resource Conservation Technologies                                    | Crop Residue Management   | 2       | 26           | 2      | 28    | 11    | 1      | 12    | 37          | 3      | 40    |  |  |
|   | Resource conservation in Sugarcane                                | 1       | 16           |        | 16    | 4     |        | 4     | 20          |        | 20    |  |  |
| Crop Diversification  | Diversification in Autumn Sugarcane                               | 1       | 16           |        | 16    | 4     |        | 4     | 20          |        | 20    |  |  |
|   | Varietal diversification & seed production technique of sugarcane |         | 16           |        | 16    | 4     |        | 4     | 20          |        | 20    |  |  |
| Integrated Crop Management  | Production technique of Pulses                                    |         | 16           |        | 16    | 4     |        | 4     | 20          |        | 20    |  |  |
|   | Production technology of Small Millets                            | 1       | 16           |        | 16    | 4     |        | 4     | 20          |        | 20    |  |  |
| Total   |   | 7       | 106          | 2      | 108   | 31    | 1      | 32    | 137         | 3      | 140   |  |  |
| II Horticulture   |   |         |              |        |       |       |        |       |             |        |       |  |  |
| a) Vegetable Crops  |   |         |              |        |       |       |        |       |             |        |       |  |  |
| b) Fruits   |   |         |              |        |       |       |        |       |             |        |       |  |  |
| Cultivation of Fruit  | Planting technique of Guava and Mango                             | 1       | 16           |        | 16    | 4     |        | 4     | 20          |        | 20    |  |  |
| c) Ornamental Plants  |   |         |              |        |       |       |        |       |             |        |       |  |  |
| d) Plantation crops   |   |         |              |        |       |       |        |       |             |        |       |  |  |
| e) Tuber crops  |   |         |              |        |       |       |        |       |             |        |       |  |  |
| f) Spices   |   |         |              |        |       |       |        |       |             |        |       |  |  |
| g) Medicinal and Aromatic Plants                                      |   |         |              |        |       |       |        |       |             |        |       |  |  |
| GT (a-g)  |   | 1       | 16           |        | 16    | 4     |        | 4     | 20          | -      | 20    |  |  |
| III Soil Health and Fertility Management                              |   |         |              |        |       |       |        |       |             |        |       |  |  |
| Soil fertility management   | Importance of soil testing & soil sample collection techniques    | 2       | 32           |        | 32    | 8     |        | 8     | 40          |        | 40    |  |  |
| Total   |   | 2       | 32           |        | 32    | 8     |        | 8     | 40          |        | 40    |  |  |
| IV Livestock Production and Management                                |   |         |              |        |       |       |        |       |             |        |       |  |  |
| V Home Science/Women empowerment                                      |   |         |              |        |       |       |        |       |             |        |       |  |  |
| Women and child care  | Combating malnutrition through soy n pro mixture in children      | 3       |              | 29     | 29    |       | 31     | 31    |             | 60     | 60    |  |  |
| Value addition  | Value added mango product   | 1       |              | 5      | 5     |       | 15     | 15    |             | 20     | 20    |  |  |
| Total   |   | 4       |              | 34     | 34    |       | 46     | 46    |             | 80     | 80    |  |  |
| VI Agril. Engineering   |   |         |              |        |       |       |        |       |             |        |       |  |  |
| VII Plant Protection  |   |         |              |        |       |       |        |       |             |        |       |  |  |
| Integrated Pest Management  | IPM in Kharif crops   | 1       | 20           |        | 20    |       |        |       | 20          |        | 20    |  |  |
| Integrated Disease Management   | Importance of seed treatment in Zaid crop                         | 1       | 17           | 1      | 18    | 2     |        | 2     | 19          | 1      | 20    |  |  |
| Bio-control of pests and diseases                                     | IPM in Rabi crops   | 1       | 20           |        | 20    |       |        |       | 20          |        | 20    |  |  |
| Total   |   | 3       | 57           | 1      | 58    | 2     |        | 2     | 59          | 1      | 60    |  |  |

# VI. Training Programme

Annual Progress Report (Jan-Dec.2023)

| VIII Fisheries                         |  |    |     |    |     |    |    |     |     |    |     |
|--|--|----|-----|----|-----|----|----|-----|-----|----|-----|
| IX Production of Inputs at site        |  |    |     |    |     |    |    |     |     |    |     |
| Seed Production                        | Seed production technology of Pulses   | 1  | 16  |    | 16  | 4  |    | 4   | 20  |    | 20  |
|  | Production Technology of High yielding Sugarcane varieties for higher economic gain. | 1  | 16  |    | 16  | 4  |    | 4   | 20  |    | 20  |
|  | Production technology of Exportable basmati rice for higher economic gain.           | 1  | 16  |    | 16  | 4  |    | 4   | 20  |    | 20  |
|  | Production Technology of Bio-fortified wheat varieties for higher economic gain.     | 1  | 16  |    | 16  | 4  |    | 4   | 20  |    | 20  |
| Others (pl specify)                    | Gau-Adharit Prakritik Kheti  | 1  | 16  |    | 16  | 4  |    | 4   | 20  |    | 20  |
| Total                                  |  | 5  | 80  |    | 80  | 20 |    | 20  | 100 |    | 100 |
| X Capacity Building and Group Dynamics |  |    |     |    |     |    |    |     |     |    |     |
| XI Agro-forestry                       |  |    |     |    |     |    |    |     |     |    |     |
| GRAND TOTAL                            |  | 22 | 291 | 37 | 328 | 65 | 47 | 112 | 356 | 84 | 440 |

### Farmers' Training including sponsored Training Programmes (Off campus)

| Therestin  | Actual Title of training conducted                       |    | Participants |        |       |       |        |       |             |        |       |  |
|--|--|----|--------------|--------|-------|-------|--------|-------|-------------|--------|-------|--|
| I nematic area<br>(May be specific to any given KVK) |  |    | Others       |        |       | SC/ST |        |       | Grand Total |        |       |  |
| (May be specific to any given KVK)                   |  |    | Male         | Female | Total | Male  | Female | Total | Male        | Female | Total |  |
| I Crop Production                                    |  |    |              |        |       |       |        |       |             |        |       |  |
| Weed Management                                      | Weed Management in Rice                                  | 1  | 16           |        | 16    | 4     |        | 4     | 20          |        | 20    |  |
| Resource Conservation Technologies                   | Crop Residue Management                                  | 1  | 12           |        | 12    | 8     |        | 8     | 20          |        | 20    |  |
| Cropping Systems                                     | Suitable Intercrops for Spring Sugarcane                 |    | 16           |        | 16    | 4     |        | 4     | 20          |        | 20    |  |
| Nursery management                                   | Nursery management in rice                               | 1  | 16           |        | 16    | 4     |        | 4     | 20          |        | 20    |  |
| Integrated Crop Management                           | Sugarcane cultivation through Ring Pit and Trench Method | 1  | 16           |        | 16    | 4     |        | 4     | 20          |        | 20    |  |
|  | Production technology of small millets                   | 2  | 32           |        | 32    | 8     |        | 8     | 40          |        | 40    |  |
|  | Intercropping of mustard in autumn planted sugarcane     | 1  | 16           |        | 16    | 4     |        | 4     | 20          |        | 20    |  |
|  | Intercropping in autumn planted sugarcane                | 1  | 16           |        | 16    | 4     |        | 4     | 20          |        | 20    |  |
| Integrated Nutrient Management                       | Use and Importance of bio fertilizers in Kharif crops    | 1  | 14           |        | 14    | 6     |        | 6     | 20          |        | 20    |  |
| Total  |  | 10 | 154          |        | 154   | 46    |        | 46    | 200         |        | 200   |  |
| II Horticulture                                      |  |    |              |        |       |       |        |       |             |        |       |  |
| a) Vegetable Crops                                   |  |    |              |        |       |       |        |       |             |        |       |  |
| Production of low value and high valume crops        | Production Technique of rainy season vegetables          | 1  | 16           |        | 16    | 4     |        | 4     | 20          |        | 20    |  |
|  | Production technique of winter season vegetables         | 1  | 16           |        | 16    | 4     |        | 4     | 20          |        | 20    |  |
| Others (pl specify)                                  | Production techniques of frenchbeen                      | 1  | 20           |        | 20    |       |        |       | 20          |        | 20    |  |
|  | Nutrient management in cole crops                        | 1  | 16           |        | 16    | 4     |        | 4     | 20          |        | 20    |  |
| Total (a)  |  | 4  | 68           |        | 68    | 12    |        | 12    | 80          |        | 80    |  |
| b) Fruits   |   |    |     |     |     |    |    |    |     |     |     |
|---|---|----|-----|-----|-----|----|----|----|-----|-----|-----|
| Others (pl specify)   | Diversification in Horticultural crops  | 1  | 16  |     | 16  | 4  |    | 4  | 20  |     | 20  |
|   | Nursery raising and production techniques of papaya   | 2  | 32  |     | 32  | 8  |    | 8  | 40  |     | 40  |
|   | Production technique of strawberry  | 1  | 16  |     | 16  | 4  |    | 4  | 20  |     | 20  |
|   | Nutrient management in mango  | 1  | 16  |     | 16  | 4  |    | 4  | 20  |     | 20  |
| Total (b)   |   | 5  | 80  |     | 80  | 20 |    | 20 | 100 |     | 100 |
| c) Ornamental Plants  |   |    |     |     |     |    |    |    |     |     |     |
| d) Plantation crops   |   |    |     |     |     |    |    |    |     |     |     |
| e) Tuber crops  |   |    |     |     |     |    |    |    |     |     |     |
| f) Spices   |   |    |     |     |     |    |    |    |     |     |     |
| g) Medicinal and Aromatic Plants                            |   |    |     |     |     |    |    |    |     |     |     |
| GT (a-g)  |   | 9  | 148 |     | 148 | 32 |    | 32 | 180 |     | 180 |
| III Soil Health and Fertility Management                    |   |    |     |     |     |    |    |    |     |     |     |
| Soil fertility management                                   | Importance of soil testing & soil sample collection techniques  | 2  | 32  |     | 32  | 8  |    | 8  | 40  |     | 40  |
| Total   |   | 2  | 32  |     | 32  | 8  |    | 8  | 40  |     | 40  |
| IV Livestock Production and Management                      |   |    |     |     |     |    |    |    |     |     |     |
| V Home Science/Women empowerment                            |   |    |     |     |     |    |    |    |     |     |     |
| Household food security by kitchen gardening                | Food Security through kitchen garden  | 1  |     | 16  | 16  |    | 4  | 4  |     | 20  | 20  |
| and nutrition gardening                                     | How to take care kitchen Implements   | 1  |     | 16  | 16  |    | 4  | 4  |     | 20  | 20  |
|   | Layout and management of kitchen garden   | 1  |     | 16  | 16  |    | 4  | 4  |     | 20  | 20  |
|   | Kitchen Gardening   | 1  |     | 19  | 19  |    | 1  | 1  |     | 20  | 20  |
| Designing and development for high nutrient efficiency diet | Importance of millets in balance diet   | 1  |     | 16  | 16  |    | 4  | 4  |     | 20  | 20  |
| Processing and cooking                                      | Method of cooking for saving fuel and nutrients   | 1  |     | 16  | 16  |    | 4  | 4  |     | 20  | 20  |
| Value addition  | Minimization of wastage of seasonal vegetables through different preservation techniques                | 4  |     | 51  | 51  |    | 29 | 29 |     | 80  | 80  |
| Location specific drudgery reduction technologies           | Different techniques of work simplification & reducing drudgery at home                                 | 2  |     | 26  | 26  |    | 14 | 14 |     | 40  | 40  |
|   | Drudgery reducing and work simplification techniques of farm<br>women during shelling of maize manually | 2  |     | 38  | 38  |    | 2  | 2  |     | 40  | 40  |
|   | Drudgery reduction of farm Women during milking of animals  | 1  |     |     |     |    | 20 | 20 |     | 20  | 20  |
| Women and child care  | Combating nutritional anemia through iron and folic acid food supplement for pregnant women             | 1  |     | 19  | 19  |    | 1  | 1  |     | 20  | 20  |
| Total   |   | 16 |     | 233 | 233 |    | 87 | 87 |     | 320 | 320 |
| VI Agril. Engineering                                       |   |    |     |     |     |    |    |    |     |     |     |

| VII Plant Protection                   |   |    |     |     |     |     |    |     |     |     |      |
|--|---|----|-----|-----|-----|-----|----|-----|-----|-----|------|
| Integrated Pest Management             | Damping Off and fruit borer management in Vegetable Crop                                | 1  | 19  | 1   | 20  |     |    |     | 19  | 1   | 20   |
|  | Integrated pest management in sugarcane   | 2  | 18  | 1   | 19  | 15  | 6  | 21  | 33  | 7   | 40   |
|  | Integrated pest management in Vegetable Crop  | 1  |     |     |     | 15  | 5  | 20  | 15  | 5   | 20   |
|  | Integrated pest management in pulses  | 1  | 17  | 3   | 20  |     |    |     | 17  | 3   | 20   |
| Integrated Disease Management          | Disease management in sugarcane   | 2  | 37  |     | 37  | 3   |    | 3   | 40  |     | 40   |
|  | Disease management in Rice  | 1  | 17  |     | 17  | 3   |    | 3   | 20  |     | 20   |
|  | Blight disease management in potato   | 1  | 20  |     | 20  |     |    |     | 20  |     | 20   |
|  | IDM in orchard  | 1  | 18  |     | 18  | 2   |    | 2   | 20  |     | 20   |
|  | IDM in wheat  | 1  | 18  |     | 18  | 2   |    | 2   | 20  |     | 20   |
| Bio-control of pests and diseases      | Significance of seed treatment in Kharif crops  | 1  | 18  |     | 18  | 2   |    | 2   | 20  |     | 20   |
|  | Prepration of agro solution for crops   | 1  | 18  |     | 18  | 2   |    | 2   | 20  |     | 20   |
| Others (pl specify)                    | Awareness about Mushroom Production   | 1  | 18  | 2   | 20  |     |    |     | 18  | 2   | 20   |
| Total                                  |   | 14 | 218 | 7   | 225 | 44  | 11 | 55  | 262 | 18  | 280  |
| VIII Fisheries                         |   |    |     |     |     |     |    |     |     |     |      |
| IX Production of Inputs at site        |   |    |     |     |     |     |    |     |     |     |      |
| Seed Production                        | Seed production techniques in pulses  | 1  | 16  |     | 16  | 4   |    | 4   | 20  |     | 20   |
|  | Varietal diversification of Sugarcane and its seed production technology                | 2  | 32  |     | 32  | 8   |    | 8   | 40  |     | 40   |
|  | Production technology of basmati rice based on Gau Aadharit natural farming system      | 1  | 16  |     | 16  | 4   |    | 4   | 20  |     | 20   |
|  | Production technology of Exportable basmati rice for higher economic gain               | 1  | 16  |     | 16  | 4   |    | 4   | 20  |     | 20   |
|  | Quality seed production of paddy  | 1  | 16  |     | 16  | 4   |    | 4   | 20  |     | 20   |
|  | Varietal diversification and quality seed production of Sugarcane                       | 1  | 16  |     | 16  | 4   |    | 4   | 20  |     | 20   |
|  | Varietal diversification, Biofortified varieties and quality seed production of mustard | 1  | 16  |     | 16  | 4   |    | 4   | 20  |     | 20   |
|  | Varietal diversification, Biofortified varieties and quality seed production of Lentil  | 1  | 16  |     | 16  | 4   |    | 4   | 20  |     | 20   |
|  | Rouging technology in wheat seed production   | 1  | 16  |     | 16  | 4   |    | 4   | 20  |     | 20   |
|  | Production technology of wheat and mustard based on Gau Aadharit natural farming system | 1  | 16  |     | 16  | 4   |    | 4   | 20  |     | 20   |
|  | Varietial diversification in wheat  | 1  | 16  |     | 16  | 4   |    | 4   | 20  |     | 20   |
| Total                                  |   | 12 | 192 |     | 192 | 48  |    | 48  | 240 |     | 240  |
| X Capacity Building and Group Dynamics |   |    |     |     |     |     |    |     |     |     |      |
| XI Agro-forestry                       |   |    |     |     |     |     |    |     |     |     |      |
| GRAND TOTAL                            |   | 63 | 744 | 240 | 984 | 178 | 98 | 276 | 922 | 338 | 1260 |

|   |   |         |      |        |       | F    | Participan | ts    |      |           |       |
|---|---|---------|------|--------|-------|------|------------|-------|------|-----------|-------|
| Thematic area                                 | Actual Title of training conducted                                | No. of  |      | Others |       |      | SC/ST      |       | 6    | Frand Tot | al    |
| (May be specific to any given KVK)            |   | courses | Male | Female | Total | Male | Female     | Total | Male | Female    | Total |
| I Crop Production                             |   |         |      |        |       |      |            |       |      |           |       |
| Weed Management                               | Weed Management in Rice   | 1       | 16   |        | 16    | 4    |            | 4     | 20   |           | 20    |
| Resource Conservation Technologies            | Crop Residue Management   | 3       | 38   | 2      | 40    | 19   | 1          | 20    | 57   | 3         | 60    |
|   | Resource conservation in Sugarcane                                | 1       | 16   |        | 16    | 4    |            | 4     | 20   |           | 20    |
| Cropping Systems                              | Suitable Intercrops for Spring Sugarcane                          | 1       | 16   |        | 16    | 4    |            | 4     | 20   |           | 20    |
| Nursery management                            | Nursery management in rice  | 1       | 16   |        | 16    | 4    |            | 4     | 20   |           | 20    |
| Integrated Crop Management                    | Sugarcane cultivation through Ring Pit and Trench Method          | 1       | 16   |        | 16    | 4    |            | 4     | 20   |           | 20    |
|   | Production technology of Small Millets                            | 3       | 48   |        | 48    | 12   |            | 12    | 60   |           | 60    |
|   | Intercropping of mustard in autumn planted sugarcane              | 1       | 16   |        | 16    | 4    |            | 4     | 20   |           | 20    |
|   | Intercropping in autumn planted sugarcane                         | 1       | 16   |        | 16    | 4    |            | 4     | 20   |           | 20    |
|   | Production technique of Pulses                                    | 1       | 16   |        | 16    | 4    |            | 4     | 20   |           | 20    |
| Integrated Nutrient Management                | Use and Importance of bio fertilizers in Kharif crops             | 1       | 14   |        | 14    | 6    |            | 6     | 20   |           | 20    |
| Crop Diversification                          | Diversification in Autumn Sugarcane                               | 1       | 16   |        | 16    | 4    |            | 4     | 20   |           | 20    |
|   | Varietal diversification & seed production technique of sugarcane | 1       | 16   |        | 16    | 4    |            | 4     | 20   |           | 20    |
| Total   |   | 17      | 260  | 2      | 262   | 77   | 1          | 78    | 337  | 3         | 340   |
| II Horticulture                               |   |         |      |        |       |      |            |       |      |           |       |
| a) Vegetable Crops                            |   |         |      |        |       |      |            |       |      |           |       |
| Production of low value and high valume crops | Production Technique of rainy season vegetables                   | 1       | 16   |        | 16    | 4    |            | 4     | 20   |           | 20    |
|   | Production technique of winter season vegetables                  | 1       | 16   |        | 16    | 4    |            | 4     | 20   |           | 20    |
| Others (pl specify)                           | Production techniques of frenchbeen                               | 1       | 20   |        | 20    |      |            |       | 20   |           | 20    |
|   | Nutrient management in cole crops                                 | 1       | 16   |        | 16    | 4    |            | 4     | 20   |           | 20    |
| Total (a)                                     |   | 4       | 68   |        | 68    | 12   |            | 12    | 80   |           | 80    |
| b) Fruits                                     |   |         |      |        |       |      |            |       |      |           |       |
| Cultivation of Fruit                          | Planting technique of Guava and Mango                             | 1       | 16   |        | 16    | 4    |            | 4     | 20   |           | 20    |
| Others (pl specify)                           | Diversification in Horticultural crops                            | 1       | 16   |        | 16    | 4    |            | 4     | 20   |           | 20    |
|   | Nursery raising and production techniques of papaya               | 2       | 32   |        | 32    | 8    |            | 8     | 40   |           | 40    |
|   | Production technique of strawberry                                | 1       | 16   |        | 16    | 4    |            | 4     | 20   |           | 20    |
|   | Nutrient management in mango                                      | 1       | 16   |        | 16    | 4    |            | 4     | 20   |           | 20    |
| Total (b)                                     |   | 6       | 96   |        | 96    | 24   |            | 24    | 120  |           | 120   |
| c) Ornamental Plants                          |   |         |      |        |       |      |            |       |      |           |       |
| d) Plantation crops                           |   |         |      |        |       |      |            |       |      |           |       |
| e) Tuber crops                                |   |         |      |        |       |      |            |       |      |           |       |
| f) Spices                                     |   |         |      |        |       |      |            |       |      |           |       |

#### Farmers' Training including sponsored Training Programmes – CONSOLIDATED (On + Off campus)

| g) Medicinal and Aromatic Plants                            |   |    |     |     |     |    |     |     |     |     |     |
|---|---|----|-----|-----|-----|----|-----|-----|-----|-----|-----|
| GT (a-g)  |   | 10 | 164 |     | 164 | 36 |     | 36  | 200 |     | 200 |
| III Soil Health and Fertility Management                    |   |    |     |     |     |    |     |     |     |     |     |
| Soil fertility management                                   | Importance of soil testing & soil sample collection techniques  | 4  | 64  |     | 64  | 16 |     | 16  | 80  |     | 80  |
| Total   |   | 4  | 64  |     | 64  | 16 |     | 16  | 80  |     | 80  |
| IV Livestock Production and Management                      |   |    |     |     |     |    |     |     |     |     |     |
| V Home Science/Women empowerment                            |   |    |     |     |     |    |     |     |     |     |     |
| Household food security by kitchen gardening                | Food Security through kitchen garden  | 1  |     | 16  | 16  |    | 4   | 4   |     | 20  | 20  |
| and nutrition gardening                                     | How to take care kitchen Implements   | 1  |     | 16  | 16  |    | 4   | 4   |     | 20  | 20  |
|   | Layout and management of kitchen garden   | 1  |     | 16  | 16  |    | 4   | 4   |     | 20  | 20  |
|   | Kitchen Gardening   | 1  |     | 19  | 19  |    | 1   | 1   |     | 20  | 20  |
| Designing and development for high nutrient efficiency diet | Importance of millets in balance diet   | 1  |     | 16  | 16  |    | 4   | 4   |     | 20  | 20  |
| Processing and cooking                                      | Method of cooking for saving fuel and nutrients   | 1  |     | 16  | 16  |    | 4   | 4   |     | 20  | 20  |
| Value addition  | Minimization of wastage of seasonal vegetables through different preservation techniques                | 4  |     | 51  | 51  |    | 29  | 29  |     | 80  | 80  |
|   | Value added mango product   | 1  |     | 5   | 5   |    | 15  | 15  |     | 20  | 20  |
| Location specific drudgery reduction technologies           | Different techniques of work simplification and reducing drudgery at home                               | 2  |     | 26  | 26  |    | 14  | 14  |     | 40  | 40  |
|   | Drudgery reducing and work simplification techniques of farm<br>women during shelling of maize manually | 2  |     | 38  | 38  |    | 2   | 2   |     | 40  | 40  |
|   | Drudgery reduction of farm Women during milking of animals  | 1  |     |     |     |    | 20  | 20  |     | 20  | 20  |
| Women and child care  | Combating nutritional anemia through iron and folic acid food supplement for pregnant women             | 1  |     | 19  | 19  |    | 1   | 1   |     | 20  | 20  |
|   | Combating malnutrition through soy n pro mixture in children  | 3  |     | 29  | 29  |    | 31  | 31  |     | 60  | 60  |
| Total   |   | 20 |     | 267 | 267 |    | 133 | 133 |     | 400 | 400 |
| VI Agril. Engineering                                       |   |    |     |     |     |    |     |     |     |     |     |
| VII Plant Protection  |   |    |     |     |     |    |     |     |     |     |     |
| Integrated Pest Management                                  | Damping Off and fruit borer management in Vegetable Crop  | 1  | 19  | 1   | 20  |    |     |     | 19  | 1   | 20  |
|   | Integrated pest management in sugarcane   | 2  | 18  | 1   | 19  | 15 | 6   | 21  | 33  | 7   | 40  |
|   | Integrated pest management in Vegetable Crop  | 1  |     |     |     | 15 | 5   | 20  | 15  | 5   | 20  |
|   | Integrated pest management in Kharif crops  | 1  | 20  |     | 20  |    |     |     | 20  |     | 20  |
|   | Integrated pest management in pulses  | 1  | 17  | 3   | 20  |    |     |     | 17  | 3   | 20  |
| Integrated Disease Management                               | Disease management in sugarcane   | 2  | 37  |     | 37  | 3  |     | 3   | 40  |     | 40  |
|   | Disease management in Rice  | 1  | 17  |     | 17  | 3  |     | 3   | 20  |     | 20  |
|   | Blight disease management in potato   | 1  | 20  |     | 20  |    |     |     | 20  |     | 20  |
|   | Importance of seed treatment in Zaid crop   | 1  | 17  | 1   | 18  | 2  |     | 2   | 19  | 1   | 20  |
|   | IDM in orchard  | 1  | 18  |     | 18  | 2  |     | 2   | 20  |     | 20  |

|  | IDM in wheat  | 1  | 18   |     | 18   | 2   |     | 2   | 20   |     | 20   |
|--|---|----|------|-----|------|-----|-----|-----|------|-----|------|
| Bio-control of pests and diseases      | Significance of seed treatment in Kharif crops  | 1  | 18   |     | 18   | 2   |     | 2   | 20   |     | 20   |
|  | IPM in Rabi crops   | 1  | 20   |     | 20   |     |     |     | 20   |     | 20   |
|  | Prepration of agro solution for crops   | 1  | 18   |     | 18   | 2   |     | 2   | 20   |     | 20   |
| Others (pl specify)                    | Awareness about Mushroom Production   | 1  | 18   | 2   | 20   |     |     |     | 18   | 2   | 20   |
| Total                                  |   | 17 | 275  | 8   | 283  | 46  | 11  | 57  | 321  | 19  | 340  |
| VIII Fisheries                         |   |    |      |     |      |     |     |     |      |     |      |
| IX Production of Inputs at site        |   |    |      |     |      |     |     |     |      |     |      |
| Seed Production                        | Seed production technology of Pulses  | 2  | 32   |     | 32   | 8   |     | 8   | 40   |     | 40   |
|  | Varietal diversification of Sugarcane and its seed production technology                | 2  | 32   |     | 32   | 8   |     | 8   | 40   |     | 40   |
|  | Production Technology of High yielding Sugarcane varieties for higher economic gain.    | 1  | 16   |     | 16   | 4   |     | 4   | 20   |     | 20   |
|  | Production technology of basmati rice based on Gau Aadharit natural farming system      | 1  | 16   |     | 16   | 4   |     | 4   | 20   |     | 20   |
|  | Production technology of Exportable basmati rice for higher economic gain               | 2  | 32   |     | 32   | 8   |     | 8   | 40   |     | 40   |
|  | Quality seed production of paddy  | 1  | 16   |     | 16   | 4   |     | 4   | 20   |     | 20   |
|  | Varietal diversification and quality seed production of Sugarcane                       | 1  | 16   |     | 16   | 4   |     | 4   | 20   |     | 20   |
|  | Varietal diversification, Biofortified varieties and quality seed production of mustard | 1  | 16   |     | 16   | 4   |     | 4   | 20   |     | 20   |
|  | Varietal diversification, Biofortified varieties and quality seed production of Lentil  | 1  | 16   |     | 16   | 4   |     | 4   | 20   |     | 20   |
|  | Rouging technology in wheat seed production   | 1  | 16   |     | 16   | 4   |     | 4   | 20   |     | 20   |
|  | Production technology of wheat and mustard based on Gau Aadharit natural farming system | 1  | 16   |     | 16   | 4   |     | 4   | 20   |     | 20   |
|  | Quality seed production of wheat  | 1  | 16   |     | 16   | 4   |     | 4   | 20   |     | 20   |
|  | Varietial diversification in wheat  | 1  | 16   |     | 16   | 4   |     | 4   | 20   |     | 20   |
| Others (pl specify)                    | Gau-Adharit Prakritik Kheti   | 1  | 16   |     | 16   | 4   |     | 4   | 20   |     | 20   |
| Total                                  |   | 17 | 272  |     | 272  | 68  |     | 68  | 340  |     | 340  |
| X Capacity Building and Group Dynamics |   |    |      |     |      |     |     |     |      |     |      |
| XI Agro-forestry                       |   |    |      |     |      |     |     |     |      |     |      |
| GRAND TOTAL                            |   | 85 | 1035 | 277 | 1312 | 243 | 145 | 388 | 1278 | 422 | 1700 |

|  |  | No. of            |      |         |       | No. o | of Particij | oants |      |          |       |
|--|--|-------------------|------|---------|-------|-------|-------------|-------|------|----------|-------|
| I hematic area<br>(May be specific to any given KVK) | Actual Title of training conducted           | NO. OI<br>Courses |      | General |       |       | SC/ST       |       | G    | rand Tot | al    |
| (iviting be specific to any given is vis)            |  | courses           | Male | Female  | Total | Male  | Female      | Total | Male | Female   | Total |
| Nursery Management of Horticulture crops             | Production technology of Plant Nursery       | 1                 | 5    | 3       | 8     | 2     |             | 2     | 7    | 3        | 10    |
| Commercial fruit production                          | Nursery production techniques of Fruit crops | 1                 | 8    |         | 8     | 2     |             | 2     | 10   |          | 10    |
| Production of organic inputs                         | Organic Farming                              | 2                 | 12   |         | 12    | 8     |             | 8     | 20   |          | 20    |
| Mushroom Production                                  | Mushroom Production technology               | 2                 | 15   | 1       | 16    | 4     |             | 4     | 19   | 1        | 20    |
| Tailoring and Stitching                              | Prepration of ladies dress                   | 1                 |      | 25      | 25    |       |             |       |      | 25       | 25    |
| Rural Crafts   | Income generation of crocia work             | 1                 |      | 15      | 15    |       | 10          | 10    |      | 25       | 25    |
| TOTAL  |  | 8                 | 40   | 44      | 84    | 16    | 10          | 26    | 56   | 54       | 110   |

#### Training for Dural Vouths including groups and Training Program

#### Training for Rural Youths including sponsored Training Programmes – CONSOLIDATED (On + Off campus)

| Thematic area                                       | No. of                                       |                   | No. of Participants |         |       |      |        |       |      |           |       |  |  |
|---|--|-------------------|---------------------|---------|-------|------|--------|-------|------|-----------|-------|--|--|
| Thematic area<br>(May be specific to any given KVK) | Actual Title of training conducted           | No. of<br>Courses |                     | General |       |      | SC/ST  |       | G    | rand Tota | al    |  |  |
| (Way be specific to any given KVK)                  |  | Courses           | Male                | Female  | Total | Male | Female | Total | Male | Female    | Total |  |  |
| Nursery Management of Horticulture crops            | Production technology of Plant Nursery       | 1                 | 5                   | 3       | 8     | 2    |        | 2     | 7    | 3         | 10    |  |  |
| Commercial fruit production                         | Nursery production techniques of Fruit crops | 1                 | 8                   |         | 8     | 2    |        | 2     | 10   |           | 10    |  |  |
| Production of organic inputs                        | Organic Farming                              | 2                 | 12                  |         | 12    | 8    |        | 8     | 20   |           | 20    |  |  |
| Mushroom Production                                 | Mushroom Production technology               | 2                 | 15                  | 1       | 16    | 4    |        | 4     | 19   | 1         | 20    |  |  |
| Tailoring and Stitching                             | Prepration of ladies dress                   | 1                 |                     | 25      | 25    |      |        |       |      | 25        | 25    |  |  |
| Rural Crafts  | Income generation of crocia work             | 1                 |                     | 15      | 15    |      | 10     | 10    |      | 25        | 25    |  |  |
| TOTAL   |  | 8                 | 40                  | 44      | 84    | 16   | 10     | 26    | 56   | 54        | 110   |  |  |

#### Training Programmes for Extension Personnel including sponsored Training Programmes (On campus)

| Thematic area  |  | No. of  | No. of Participants |         |       |      |        |       |      |          |       |  |  |  |
|--|--|---------|---------------------|---------|-------|------|--------|-------|------|----------|-------|--|--|--|
| I nematic area<br>(May be specific to any given KVK) | Actual Title of training conducted   | NO. 01  |                     | General |       |      | SC/ST  |       | G    | rand Tot | al    |  |  |  |
| (May be specific to any given KVK)                   |  | Courses | Male                | Female  | Total | Male | Female | Total | Male | Female   | Total |  |  |  |
| Productivity enhancement in field crops              | Varietal diversification and quality seed production of Sugarcane          | 1       | 6                   |         | 6     | 4    |        | 4     | 10   |          | 10    |  |  |  |
|  | Sugarcane cultivation through Ring Pit and Trench Method                   | 1       | 6                   |         | 6     | 4    |        | 4     | 10   |          | 10    |  |  |  |
|  | Resource conservation in Sugarcane   | 1       | 6                   |         | 6     | 4    |        | 4     | 10   |          | 10    |  |  |  |
|  | Production technology of Exportable basmati rice for higher economic gain. | 1       | 55                  | 15      | 70    | 15   | 15     | 30    | 70   | 30       | 100   |  |  |  |
|  | Production technology of small millets                                     | 1       | 55                  | 15      | 70    | 15   | 15     | 30    | 70   | 30       | 100   |  |  |  |
|  | Diversification in Autumn Sugarcane  | 1       | 55                  | 15      | 70    | 15   | 15     | 30    | 70   | 30       | 100   |  |  |  |

| Productivity enhancement in Horticulture | Planting technique of Guava and Mango   | 1  | 35  | 55  | 90  | 4  | 6   | 10  | 39  | 61  | 100  |
|--|---|----|-----|-----|-----|----|-----|-----|-----|-----|------|
| crops                                    |   |    |     |     |     |    |     |     |     |     |      |
| Integrated Pest Management               | IPM in orchard crop   | 1  | 4   |     | 4   | 6  |     | 6   | 10  |     | 10   |
|  | IPM in Kharif crops   | 1  | 51  | 34  | 85  |    | 15  | 15  | 51  | 49  | 100  |
|  | IPM in Rabi crops   | 1  | 58  | 30  | 88  |    | 12  | 12  | 58  | 42  | 100  |
| Value addition                           | Minimization of wastage of seasonal vegetables through different preservation techniques                | 3  |     | 210 | 210 |    | 90  | 90  |     | 300 | 300  |
| Drudgery reducing                        | Drudgery reducing and work simplification techniques of farm<br>women during shelling of maize manually | 1  |     | 74  | 74  |    | 26  | 26  |     | 100 | 100  |
| TOTAL                                    |   | 14 | 331 | 448 | 779 | 67 | 194 | 261 | 398 | 642 | 1040 |

#### Training Programmes for Extension Personnel including sponsored Training Programmes (Off campus)

|  | Thematic area No. of Participants   |         |      |         |       |      |        |       |      |           |       |
|--|---|---------|------|---------|-------|------|--------|-------|------|-----------|-------|
| I nematic area<br>(May be specific to any given KVK) | Actual Title of training conducted  | NO. OI  |      | General |       |      | SC/ST  |       | 6    | rand Tota | al    |
| (May be specific to any given KVK)                   |   | Courses | Male | Female  | Total | Male | Female | Total | Male | Female    | Total |
| Productivity enhancement in field crops              | Production technology of potato   | 1       | 9    |         | 9     | 1    |        | 1     | 10   |           | 10    |
|  | Improved varieties of Cauliflower and its production Techniques                         | 1       | 9    |         | 9     | 1    |        | 1     | 10   |           | 10    |
|  | Nursery raising and production techniques of papaya                                     | 1       | 9    |         | 9     | 1    |        | 1     | 10   |           | 10    |
|  | Production Technique of Rainy season vegetables   | 1       | 9    |         | 9     | 1    |        | 1     | 10   |           | 10    |
|  | Varietal diversification and quality seed production of Sugarcane                       | 2       | 33   |         | 33    | 7    |        | 7     | 40   |           | 40    |
|  | Varietal diversification, Biofortified varieties and quality seed production of mustard | 1       | 16   |         | 16    | 4    |        | 4     | 20   |           | 20    |
|  | Varietal diversification, Biofortified varieties and quality seed production of Lentil  | 1       | 17   |         | 17    | 3    |        | 3     | 20   |           | 20    |
|  | Production technology of wheat and mustard based on Gau Aadharit natural farming system | 1       | 15   |         | 15    | 5    |        | 5     | 20   |           | 20    |
|  | Intercropping of mustard in autumn planted sugarcane                                    | 1       | 16   |         | 16    | 4    |        | 4     | 20   |           | 20    |
|  | Intercropping in autumn planted sugarcane   | 1       | 15   |         | 15    | 5    |        | 5     | 20   |           | 20    |
|  | Seed production technology of wheat   | 1       | 17   |         | 17    | 3    |        | 3     | 20   |           | 20    |
|  | Varietal diversification in wheat   | 1       | 16   |         | 16    | 4    |        | 4     | 20   |           | 20    |
|  | Production technology of Biofortified varieties of wheat                                | 1       | 16   |         | 16    | 4    |        | 4     | 20   |           | 20    |
|  | Production technology of small millets  | 1       | 17   |         | 17    | 3    |        | 3     | 20   |           | 20    |
| Productivity enhancement in Horticulture             | Nursery raising and production techniques of papaya                                     | 1       | 16   |         | 16    | 4    |        | 4     | 20   |           | 20    |
| rops Pr<br>Pr<br>N<br>Pr<br>Pr                       | Production Technique of Rainy season vegetables   | 1       | 15   |         | 15    | 5    |        | 5     | 20   |           | 20    |
|  | Production technique of strawberry  | 1       | 17   |         | 17    | 3    |        | 3     | 20   |           | 20    |
|  | Nutrient management in cole crops   | 1       | 14   |         | 14    | 6    |        | 6     | 20   |           | 20    |
|  | Production technique of winter season vegetables  | 1       | 15   |         | 15    | 5    |        | 5     | 20   |           | 20    |
|  | Nutrient management in mango  | 1       | 17   |         | 17    | 3    |        | 3     | 20   |           | 20    |

| Integrated Pest Management                     | Significance of seed treatment in Kharif crops  | 1  | 11  |    | 11  | 9   |    | 9   | 20  |     | 20  |
|--|---|----|-----|----|-----|-----|----|-----|-----|-----|-----|
|  | Disease management in sugarcane   | 1  | 19  | 1  | 20  |     |    |     | 19  | 1   | 20  |
|  | Disease management in Rice  | 1  | 13  |    | 13  | 7   |    | 7   | 20  |     | 20  |
|  | Integrated pest management in pulses  | 1  | 13  |    | 13  | 7   |    | 7   | 20  |     | 20  |
|  | Awareness about Mushroom Production   | 1  | 19  | 1  | 20  |     |    |     | 19  | 1   | 20  |
|  | Blight disease management in potato   | 1  | 7   |    | 7   |     | 13 | 13  | 7   | 13  | 20  |
|  | Integrated pest management in orchard   | 1  | 13  |    | 13  | 7   |    | 7   | 20  |     | 20  |
|  | Integrated pest management in vegetable crops   | 1  | 13  |    | 13  | 7   |    | 7   | 20  |     | 20  |
|  | Damping off and fruit borer control in vegetables   | 1  | 18  |    | 18  | 2   |    | 2   | 20  |     | 20  |
| Formation and Management of SHGs               | Different Roles of SGH and its importance in decision making  | 1  |     | 7  | 7   |     | 3  | 3   |     | 10  | 10  |
| Low cost and nutrient efficient diet designing | Importance of millets in diet   | 1  |     | 7  | 7   |     | 3  | 3   |     | 10  | 10  |
|  | Importance of millets in school going children  | 1  |     | 8  | 8   |     | 2  | 2   |     | 10  | 10  |
|  | Importance of millets in old age  | 1  |     | 8  | 8   |     | 2  | 2   |     | 10  | 10  |
| Drudgery reducing                              | Drudgery reducing and work simplification techniques of farm<br>women during shelling of maize manually | 1  |     | 5  | 5   |     | 15 | 15  |     | 20  | 20  |
| Value addition                                 | Minimization of wastage of seasonal vegetables through different preservation techniques                | 2  |     | 29 | 29  |     | 11 | 11  |     | 40  | 40  |
| TOTAL  |   | 37 | 434 | 66 | 500 | 111 | 49 | 160 | 545 | 115 | 660 |

#### Training Programmes for Extension Personnel including sponsored Training Programmes – CONSOLIDATED (On + Off campus)

|  | Actual Title of training conducted  | NL C    |      |         |       | No. c | of Particij | pants |      |           |       |
|--|---|---------|------|---------|-------|-------|-------------|-------|------|-----------|-------|
| I nematic area<br>(May be specific to any given KVK) | Actual Title of training conducted  | NO. OI  |      | General |       |       | SC/ST       |       | G    | rand Tota | al    |
| (whay be specific to any given KVK)                  |   | Courses | Male | Female  | Total | Male  | Female      | Total | Male | Female    | Total |
| Productivity enhancement in field crops              | Production technology of potato   | 1       | 9    |         | 9     | 1     |             | 1     | 10   |           | 10    |
|  | Improved varieties of Cauliflower and its production Techniques                         | 1       | 9    |         | 9     | 1     |             | 1     | 10   |           | 10    |
|  | Nursery raising and production techniques of papaya                                     | 1       | 9    |         | 9     | 1     |             | 1     | 10   |           | 10    |
|  | Production Technique of Rainy season vegetables   | 1       | 9    |         | 9     | 1     |             | 1     | 10   |           | 10    |
|  | Varietal diversification and quality seed production of Sugarcane                       | 3       | 39   |         | 39    | 11    |             | 11    | 50   |           | 50    |
|  | Varietal diversification, Biofortified varieties and quality seed production of mustard | 1       | 16   |         | 16    | 4     |             | 4     | 20   |           | 20    |
|  | Varietal diversification, Biofortified varieties and quality seed production of Lentil  | 1       | 17   |         | 17    | 3     |             | 3     | 20   |           | 20    |
|  | Production technology of wheat and mustard based on Gau Aadharit natural farming system | 1       | 15   |         | 15    | 5     |             | 5     | 20   |           | 20    |
|  | Intercropping of mustard in autumn planted sugarcane                                    | 1       | 16   |         | 16    | 4     |             | 4     | 20   |           | 20    |
|  | Intercropping in autumn planted sugarcane   | 1       | 15   |         | 15    | 5     |             | 5     | 20   |           | 20    |
|  | Seed production technology of wheat   | 1       | 17   |         | 17    | 3     |             | 3     | 20   |           | 20    |
| Va   | Varietal diversification in wheat   | 1       | 16   |         | 16    | 4     |             | 4     | 20   |           | 20    |

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|  | Production technology of Biofortified varieties of wheat  | 1    | 16  |      | 16  | 4   |     | 4   | 20  |      | 20  |
|--|---|------|-----|------|-----|-----|-----|-----|-----|------|-----|
|  | Production technology of small millets  | 2    | 72  | 15   | 87  | 18  | 15  | 33  | 90  | 30   | 120 |
|  | Sugarcane cultivation through Ring Pit and Trench Method  |      |     |      | 6   | 4   |     | 4   | 10  |      | 10  |
|  | Resource conservation in Sugarcane  | 1    | 6   |      | 6   | 4   |     | 4   | 10  |      | 10  |
|  | Production technology of Exportable basmati rice for higher economic gain.                              | 1    | 55  | 15   | 70  | 15  | 15  | 30  | 70  | 30   | 100 |
|  | Diversification in Autumn Sugarcane   | 1    | 55  | 15   | 70  | 15  | 15  | 30  | 70  | 30   | 100 |
| Productivity enhancement in Horticulture       | Nursery raising and production techniques of papaya   | 1    | 16  |      | 16  | 4   |     | 4   | 20  |      | 20  |
| crops  | Production Technique of Rainy season vegetables   | 1    | 15  |      | 15  | 5   |     | 5   | 20  |      | 20  |
|  | Production technique of strawberry  | 1    | 17  |      | 17  | 3   |     | 3   | 20  |      | 20  |
|  | Nutrient management in cole crops   | 1    | 14  |      | 14  | 6   |     | 6   | 20  |      | 20  |
|  | Production technique of winter season vegetables  | 1    | 15  |      | 15  | 5   |     | 5   | 20  |      | 20  |
|  | Nutrient management in mango  | 1    | 17  |      | 17  | 3   |     | 3   | 20  |      | 20  |
|  | Planting technique of Guava and Mango   | 1    | 35  | 55   | 90  | 4   | 6   | 10  | 39  | 61   | 100 |
| Integrated Pest Management                     | Significance of seed treatment in Kharif crops  |      | 11  |      | 11  | 9   |     | 9   | 20  |      | 20  |
|  | Disease management in sugarcane   | 1    | 19  | 1    | 20  |     |     |     | 19  | 1    | 20  |
|  | Disease management in Rice  | 1    | 13  |      | 13  | 7   |     | 7   | 20  |      | 20  |
|  | Integrated pest management in pulses  | 1    | 13  |      | 13  | 7   |     | 7   | 20  |      | 20  |
|  | Awareness about Mushroom Production   | 1    | 19  | 1    | 20  |     |     |     | 19  | 1    | 20  |
|  | Blight disease management in potato   | 1    | 7   |      | 7   |     | 13  | 13  | 7   | 13   | 20  |
|  | Integrated pest management in orchard   | 2    | 17  |      | 17  | 13  |     | 13  | 30  |      | 30  |
|  | Integrated pest management in vegetable crops   | 1    | 13  |      | 13  | 7   |     | 7   | 20  |      | 20  |
|  | Damping off and fruit borer control in vegetables   | 1    | 18  |      | 18  | 2   |     | 2   | 20  |      | 20  |
|  | IPM in Kharif crops   | 1    | 51  | 34   | 85  |     | 15  | 15  | 51  | 49   | 100 |
|  | IPM in Rabi crops   | 1    | 58  | 30   | 88  |     | 12  | 12  | 58  | 42   | 100 |
| Formation and Management of SHGs               | Different Roles of SGH and its importance in decision making  | 1    |     | 7    | 7   |     | 3   | 3   |     | 10   | 10  |
| Low cost and nutrient efficient diet designing | Importance of millets in diet   | 1    |     | 7    | 7   |     | 3   | 3   |     | 10   | 10  |
|  | Importance of millets in school going children  | 1    |     | 8    | 8   |     | 2   | 2   |     | 10   | 10  |
|  | Importance of millets in old age  | 1    |     | 8    | 8   |     | 2   | 2   |     | 10   | 10  |
| Drudgery reducing                              | Drudgery reducing and work simplification techniques of farm<br>women during shelling of maize manually | 2    |     | 79   | 79  |     | 51  | 51  |     | 120  | 120 |
| Value addition                                 | Minimization of wastage of seasonal vegetables through different preservation techniques                | 5    |     | 239  | 239 |     | 91  | 91  |     | 340  | 340 |
| TOTAL  | 51  | 765  | 514 | 1279 | 178 | 243 | 421 | 943 | 757 | 1700 |     |
| <b>Sponsored Training Programme</b>            | 03  | (70) |     |      |     |     |     |     |     |      |     |

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

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# **Glimpses of Training Programmes during the Year**



| VII. Extension Programmes                                |                      |                   |                                  |       |  |  |  |
|--|----------------------|-------------------|----------------------------------|-------|--|--|--|
| Activities   | No. of<br>programmes | No. of<br>farmers | No. of<br>Extension<br>Personnel | TOTAL |  |  |  |
| Advisory Services  | 28                   | 410               | 120                              | 530   |  |  |  |
| Diagnostic visits  | 10                   | 90                | 25                               | 115   |  |  |  |
| Field Day  | 20                   | 1500              | 70                               | 1570  |  |  |  |
| Group discussions  | 4                    | 45                | 5                                | 50    |  |  |  |
| Kisan Ghosthi  | 12                   | 8500              | 950                              | 9450  |  |  |  |
| Film Show  |                      |                   |                                  |       |  |  |  |
| Self -help groups  |                      |                   |                                  |       |  |  |  |
| Kisan Mela   | 7                    | 10500             | 900                              | 11400 |  |  |  |
| Exhibition   |                      |                   |                                  |       |  |  |  |
| Scientists' visit to farmers field                       | 105                  | 2450              | 400                              | 2850  |  |  |  |
| Plant/animal health camps                                |                      |                   |                                  |       |  |  |  |
| Farm Science Club  |                      |                   |                                  |       |  |  |  |
| Ex-trainees Sammelan                                     |                      |                   |                                  |       |  |  |  |
| Farmer's Seminar/Workshop                                |                      |                   |                                  |       |  |  |  |
| Method Demonstrations                                    | 6                    | 125               | 25                               | 150   |  |  |  |
| Celebration of important days<br>(World Environment day) | 1                    | 20                | 0                                | 20    |  |  |  |
| Special day celebration                                  | 4                    | 120               | 30                               | 150   |  |  |  |
| Exposure visits  | 2                    | 100               |                                  | 100   |  |  |  |
| Farmers Visit at KVK                                     | 95                   | 12500             | 350                              | 12850 |  |  |  |
| Others (Technology popularization as resource person)    | 55                   | 12500             | 500                              | 13000 |  |  |  |
| Total  | 349                  | 48860             | 3375                             | 52235 |  |  |  |

#### Details of other extension programmes

| I B I I I I I I I I I I I I I I I I I I         |        |
|---|--------|
| Particulars                                     | Number |
| Electronic Media (CD/DVD)                       |        |
| Extension Literature                            | 10     |
| News paper coverage                             | 170    |
| Popular articles                                | 04     |
| Radio Talks                                     | 22     |
| TV Talks  | 50     |
| Animal health camps (Number of animals treated) |        |
| Other   | 7      |
| Total   | 263    |

# Mobile Advisory Services

| Name of  | Message Type      |      | Type of Messages |         |         |        |            |       |
|----------|-------------------|------|------------------|---------|---------|--------|------------|-------|
| KVK      |                   | Crop | Livestock        | Weather | Market- | Aware- | Other      | Total |
|          |                   |      |                  |         | mg      | ness   | chierprise |       |
| Nagina   | Text only         | 80   | -                | -       | -       | 15     | -          | 95    |
| (Bijnor) | Voice only        | 8    | -                | -       | -       | 05     | -          | 13    |
|          | Voice & Text both | -    | -                | -       | -       | -      | -          | -     |
|          | Total messages    | 88   | -                | -       | -       | 20     | -          | 108   |
|          | Total farmer      | 1800 | -                | -       | -       | 1800   | -          | 3600  |
|          | benefitted        |      |                  |         |         |        |            |       |

# **Glimpses of Extension Activities during the Year**



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| Technology dissemination through Electronic, Social Media & Print Media |                   |              |  |  |  |  |
|---|-------------------|--------------|--|--|--|--|
| Programmes  | No, of Programmes | Participants |  |  |  |  |
| Telephonic Advice   | 1210              |              |  |  |  |  |
| Massage delivered on Facebook   | 12                |              |  |  |  |  |
| Massage delivered on Tweeter  | 05                |              |  |  |  |  |
| Massage delivered on Whatsapp Group (10 Groups)                         | 60                | 1800         |  |  |  |  |
| Voice Massage delivered on Whatsapp Group (08 Groups)                   | 08                | 1800         |  |  |  |  |
| Video call through Whatsapp   | 10                | 30           |  |  |  |  |
| Print Media   | 90                |              |  |  |  |  |

# **को सोयें किरान- डॉ. केठे टिरंह** जनसमपुर गढ़ी (विमारी)। वर्त्तमान समय में किसान गेह आपका सरसों की फसल को कटाई के बाद खाली पहें खेल में हरी आप की प्रसाल की कहाई के बाद खाली पहें खेल में हरी में वृंदि डॉ। साथ ही साथ आने वाली फलंतों में कम लगात के साथ उचन क्यात्ता की प्रसि हो सके। किसानों के। वह सतान देखा के के सिंह ने बातनीत में बताया कि अभी तक ऐसा देखने में आदा है कहे दरी खाद के रूप में किसान ढेखा या सनई की फसल का ही प्रयोग करते आए हैं, जबके किसान डेखा सरस हो के फसल का ही प्रयोग करते आए हैं, जबके किसान डेखा या सनई की फसल का ही प्रयोग करते आए हैं, जबकि किसान डेखा या सनई की फसल का ही प्रयोग करते आए हैं, जबकि किसान डेखा या सनई की फसल का ही प्रयोग करते आए हैं, जबकि किसान के खान में जुवाई करने के तर पिताल कि क्या के सानुपातिक मात्रा में बुवाई करने के साथ-साथ इनकी फसलों को उमा मुंग उच्छी तर मिलाकर इन्हें हरी खाद के रूप में प्रयोग करें तो लाभ होगा। डॉ. केके सिंह ने नेचूसल अथका जीकन खेती करने तो लोने के आय हो तातन इन्हे स्ते के इस नवरत्न हरी खाद की फसल का प्रयोग अपनी खेती में अवस्य को जिससे की आगामी फसल में लोग तक में मुंग के इस नवरत्न हरी खाद की फसल का प्रयोग अपनी खेती में आस चिस खेती करने हो को केत में लागत कम और मूवा को उक्तंता लड़े, साथ ही वातावरण और स्वाह्यक के ति हत्त हो एवं उत्पाद की अच्छो की मत प्राया की लाल कम भारे मुवा हो एवं उत्पात को आ की का सानुपात की यह सुमाल दिसा अंतर्गत दी महत्वपूर्ण जानकारी <section-header><section-header><section-header><text><text><text><text><text><text><text> अतिकार वेदर उपलाणी से वायदात. तथीना कृषि विद्याल केंद्र के वैज्ञानिकों को ओर से केंद्र पर आवारत प्राप्तुतिक कोंग पर प्राणिश्वण आयोक्ति कटाया गया। जिसमें जनराद के प्रमुख किस्ताने ने प्रतिभाग कर गै आधारित प्रमुख किस्ताने त्र उप्रविश्वण प्राप्त किया। बुखयार को आयोजित कार्यक्रम में व्यानिक टा. के ते सिंदने कियानी केंद्र वाय कि नो आधारित खेती करते से क्या प्राथ्तवा कि नो आधारित खेती प्रदर्शने काराया तथा हो। जिसके लिए केंद्र पह सी उससे संबर्धे जनर से क्या प्राय्ति केंद्र पह अत्यार को जिसके लिए केंद्र पह सी उससे संबर्धनार बाद, त्यायन आदि केंसे प्रत्यार को हो जिसके लिए में पा द्वीतट लगाई गई है, जिसका केंद्र घर पर आप हुए किसानों हारा भ्रमण करके जानकारी ली गई। डा. प्रकार कुमार क्षेत्रीवित करते हुए व्याता कि गी आधारित खेली में कैकी हरी खाद को को खोत के की रकिनो देवर पर हरी खाद के खेल में मिलावा जाता है। किसान शक्तिल जिसान पाई संगठित होकर खेली कर और कच्छी आपतीप्राज करों हुउने ब्याता कि किसान पाई संगठित होकर खेली कर और इस इस बार उनके द्वारा संगठित रूम मे कम से कम 10 किस्टेर से इंफलन पर किना जा रहा। नरेंद्र सिंह ने वमी कंगोस्ट उत्पादन एख मिलारण की जानकारी नी डा. जब्दुनेला गुराता स कम 10 हमेटवर कार्यप्रता पर (करा आ रहा। नरेंद्र सिंह ने वर्मी कंगोस्ट उत्पादन एव वितरण की जानकारी दी। डा. शकुंतला गुप्ता प्रभारी अधिकारी ने कहा कि केंद्र ऐसे प्रशिक्षण का आयोजन करता रहेगा, जिसे किसानों को अधिक से अधिक आमदनी प्राप्त हो सके। मशीन से तैयार की जाएगी धान की रवरीफ की फसलों से उच्च उत्पादन प्राप्त ग्रामीण स्तर पर जागरूकता करने हेतु खरीफ अभियान चलाया कार्यक्रम का आयोजन 5)

# आपने सब्बद्धारा ा होग विषाम के प्राय कि जे भी कामने करने वा जानिन है कि स्वारं कि मान मदेतरा ा होग विषाम के प्राय क

\*मुरादाबाद\* मंगलवार 15 मार्च 2022 7

फसल अवशेष प्रबंधन परियोजना के

#### गो आधारित प्राकृतिक खेती पर प्रशिक्षण किया प्राप्त

शाह टाइम्स संवाददाता नगीना। कृषि विज्ञान केंद्र द्वारा । अवशेष प्रबंधन परियोजना अंतर्गत गैजमपुर हरबंस, ब्लॉक कोतवाली क दिवसीय ग्रामीण स्तर पर त्ता कार्यक्रम इषि विज्ञान केंट आयोजित नगीना की किया का प्रभारी कृषकों को कसानों को संबोधित करते किसान साथियों अपनी शेषों को न जलाएं। फसलों हुए कहा कि लों के अव मोल्चन के स संरक्षित करें।

के अवशोधों को जलाने से मुप्त, वायु, बातावरण आदि में गमंद कुस्मार होते ही सूर्व बेदानिक उद्य रिवारों में के स्तार्ग को संबोधित करते हुए कहा कि किस्तान साविध्ये आप स्वार्थ सों सो में जो भी अवशेष खरते हैं, चाहे क्षर पराली हो या गन्ने को पत्री और दसको खेतरे में हो करको से स्ट ही कंपजिर का प्रयोग करके उत्तको खेतों में सिराइ कर खेत को उद्ये हा हाकित को खड़ाएं, डा.प्रतिमा गुराता ने सहारा को खड़ाएं, डा.प्रतिमा गुराता ने सहारा को खड़ाएं, डा.प्रतिमा गुराता ने शक्ति को बढाएँ। डा.प्रतिम किसान साथियों से अनुरोध कि किसान साथी अपनी फसलों के जैसे पराली गन्ने की पनी अल्लि प्रयोग मी को

#### खाली हो रहे खेतों में हरी खाद की फसलों को बोयें किसान- डॉ. केके सिंह





#### VIII. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

| Number of KVKs<br>organized Technology<br>Week | Types of Activities                                 | No. of<br>Activities | Number of<br>Participants | Related<br>crop/livestock<br>technology |
|--|---|----------------------|---------------------------|---|
|  | Gosthies  | -                    | -                         |   |
|  | Lectures organized                                  | -                    | -                         |   |
|  | Exhibition  | -                    | -                         |   |
|  | Film show   | -                    | -                         |   |
|  | Fair  | -                    | -                         |   |
|  | Farm Visit  | -                    | -                         |   |
|  | Diagnostic Practical's                              | -                    | -                         |   |
|  | 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 | -                    | -                         |   |

# IX. PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS Production of seeds by the KVKs

| Crop    | Name of<br>the crop | Name of the variety | Name of the<br>hybrid | Quantity of seed (q) | Value (Rs) | Number of<br>farmers |  |  |
|---------|---------------------|---------------------|-----------------------|----------------------|------------|----------------------|--|--|
| Caraala | Wheat               | HD-3086             |                       | 160.00               |            |                      |  |  |
| Celeais | Paddy               | PB-1847             |                       | 155.00               |            |                      |  |  |
|         | Total               |                     |                       | 315.00               |            |                      |  |  |

#### Details of participatory quality seed production at farmer's field

| Crop    | Variety           | Production (q.) | F to F Seed distributed |
|---------|-------------------|-----------------|-------------------------|
|         | PB-1692           | 450             | 250                     |
|         | PB-1637           | 240             | 140                     |
|         | PB-1718           | 220             | 150                     |
| Della   | PB-1509           | 250             | 210                     |
| Paddy   | PB-1121           | 80              | 40                      |
|         | PB-1885           | 150             | 85                      |
|         | PB-1886           | 25              | 18                      |
|         | PB-1847           | 320             | 358                     |
|         | HD-2967           | 480             | 210                     |
|         | HD-3226           | 1409            | 881                     |
|         | DBW-187           | 2029            | 2200                    |
|         | DBW-222           | 164             | 268                     |
|         | DBW-303           | 51              | 90                      |
| Wheat   | HD-3298           | 150             | 210                     |
|         | WB-02             | 177             | 257                     |
|         | HPBW-01           | 150             | 160                     |
|         | DBW-173           | 686             | 774                     |
|         | DBW-327           | 60              | 18                      |
|         | DBW-332           | 45              | 10                      |
|         | Pusa Mustard-31   | 10              | 140                     |
| Mustard | Pusa Mustard-32   | 40              | 150                     |
|         | Pusa Mustard-33   | 60              | 210                     |
| Lentil  | Pusa Masoor Ageti | 350             | 650                     |
| Dotato  | Kufri Neelkanth   | 15              | 55                      |
| rotato  | Kufri Frysona     | 110             | 55                      |
| Total   |                   | 7721            | 7589                    |



| Production of planting materials by the KVKs |   |   |                       |        |             |                      |  |
|--|---|---|-----------------------|--------|-------------|----------------------|--|
| Crop   | Name of the crop  | Name of the<br>variety                        | Name of<br>the hybrid | Number | Value (Rs.) | Number of<br>farmers |  |
| Vegetable<br>seedlings                       | Cauliflower, Tomato,<br>Brinjal, Chilli, Shimla<br>Mirch, Cabbage | Arka, Rakshak,<br>Pusa Purple long,<br>Sultan |                       | 2500   | 750         | 60                   |  |

:

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

| <b>Bio Products</b>  | Name of the bio-product | Quantity<br>(Kg/lit) | Value (Rs.) | No. of Farmers                    |
|----------------------|-------------------------|----------------------|-------------|-----------------------------------|
| Dia                  | Vermi Compost           | 20000                | 5000        | 82                                |
| Bl0<br>Fortiligorg   | Ghanjivamrit            | 400                  | -           | Used in natural farming demo unit |
| rerunsers            | Liquid Jivamrit         | 600                  | -           | 25 & Use at KVK Farm              |
| <b>Bio-pesticide</b> | Duspraniark             | 400                  | -           | 45 & Use at KVK Farm              |
| <b>Bio-fungicide</b> | Beejaamrit              | 20                   | -           | Used in natural farming demo unit |
| Others               | Mushroom spawn          | 10                   | 1200        | 10                                |
| Total                |                         | 21430                | 6200        | 92                                |

#### **Production of livestock materials** : Nil

| X. DETAILS OF SOIL, WATER AND PLANT ANALYSIS |                |                |                 |                       |  |  |
|--|----------------|----------------|-----------------|-----------------------|--|--|
| Samples                                      | No. of Samples | No. of Farmers | No. of Villages | Amount realized (Rs.) |  |  |
| Soil   |                |                |                 |                       |  |  |
| Total  |                |                |                 |                       |  |  |

# XI. SCIENTIFIC ADVISORY COMMITTEEName of KVKNumber of SACs conductedDate of SACKrishi Vigyan Kendra, Nagina (Bijnor)0109.11.2023

#### NEWSLETTER/MAGAZINE XII. Nil : XIII. Publications Category Number Books --Technical bulletins --Research Paper/ Abstract --Lead Papers --**Book Chapters** --Popular Articles --Newsletters --Technical reports 10 Training Manual --Leaflet/Extension Literature etc. 25 Ratio Talk 06 TV Talk --

#### Leaflet/Extension Literature etc: SN Authors Year Title डा० के० के० सिंह एवं अन्य गौ आधारित प्राकृतिक खेती 2023 1 फसल अवशेष प्रबन्धन क्यों और कैसें 2 डा0 के0 के0 सिंह एवं अन्य 2023 डा0 के0 के0 सिंह एवं अन्य पुसा वेस्ट डी कम्पोजर बनाने की विधि 3 2023 डा0 के0 के0 सिंह एवं अन्य 2023 फसल अवशेषों के सग्रहण हेतू उन्नत कृषि यंत्र 4

| 5  | डा0 के0 के0 सिंह एवं अन्य    | 2023 | गन्ने में फसल अवशेष प्रबन्धन                            |
|----|------------------------------|------|---|
| 6  | डा0 के0 के0 सिंह एवं अन्य    | 2023 | उन्नत मशीनों द्वारा फसल अवशेष प्रबन्धन                  |
| 7  | डा0 के0 के0 सिंह एवं अन्य    | 2023 | फसल अवशेष जलाने से उपलब्ध पोषक तत्वों के नुकसान का आकलन |
| 8  | डा0 के0 के0 सिंह             | 2023 | जनवरी माह के कृषि कार्य                                 |
| 9  | डा0 के0 के0 सिंह             | 2023 | फरवरी माह के कृषि कार्य                                 |
| 10 | डा0 के0 के0 सिंह             | 2023 | मार्च माह के कृषि कार्य                                 |
| 11 | डा0 के0 के0 सिंह             | 2023 | अप्रैल माह के कृषि कार्य                                |
| 12 | डा0 के0 के0 सिंह             | 2023 | मई माह के कृषि कार्य                                    |
| 13 | डा0 के0 के0 सिंह             | 2023 | जून माह के कृषि कार्य                                   |
| 14 | डा0 के0 के0 सिंह             | 2023 | जुलाई माह के कृषि कार्य                                 |
| 15 | डा0 के0 के0 सिंह             | 2023 | अगस्त माह के कृषि कार्य                                 |
| 16 | डा० शकुन्तला गुप्ता          | 2023 | वर्ष भर गृहवाटिका से आय अर्जन का स्त्रोत                |
| 17 | डा० शकुन्तला गुप्ता          | 2023 | अमचुर उत्पादन तकनीक                                     |
| 18 | डा0 के0 के0 सिंह, डा0        | 2023 | गौ आधारित प्राकृतिक खेती                                |
|    | शकुन्तला गुप्ता एवं अन्य     |      |   |
| 19 | डा० शकुन्तला गुप्ता एवं अन्य | 2023 | फसल अवशेष प्रबन्धन हेतु मशरूम उत्पादन तकनीक             |
| 20 | डा० शकुन्तला गुप्ता एवं अन्य | 2023 | बटन मशरूम उत्पादन हेतु कम्पोस्ट तैयार करना              |
| 21 | डा0 के0 के0 सिंह, डा0        | 2023 | बासमती धान की संस्तुत प्रजातियाँ                        |
|    | शकुन्तला गुप्ता एवं अन्य     |      |   |
| 22 | डा0 के0 के0 सिंह, डा0        | 2023 | खरीफ फसलों में बीज उपचार की महत्व एवं तरीका             |
|    | शकुन्तला गुप्ता एवं अन्य     |      |   |

#### Radio Talk / TV talks (Specify Date, topic and place)

| क्र0सं0 | विषय   | रिर्कोडिंग तिथि | स्थान              |
|---------|--|-----------------|--------------------|
| Radio 7 | <b>Talk</b>                                      |                 |                    |
| 1       | फसल अवशेष को जलाने से होने वाली हानि एवं         | October, 2023   | आकाशवाणी, नजीबाबाद |
|         | पर्यावरण पर उसका प्रभाव                          |                 |                    |
| 2       | फसल अवशेष प्रबन्धन का महत्व एवं तरीका            | October, 2023   | आकाशवाणी, नजीबाबाद |
| 3       | फसल अवशेष प्रबन्धन हेतू प्रचार प्रसार तकनीकी एवं | October, 2023   | आकाशवाणी, नजीबाबाद |
|         | महत्व  |                 |                    |
| 4       | कृषि अपशिष्ट से समृद्धि                          | October, 2023   | आकाशवाणी, नजीबाबाद |
| 5       | गेहूँ की बुवाई में हैप्पी सीडर का प्रयोग व महत्व | October, 2023   | आकाशवाणी, नजीबाबाद |
| 6       | कम्प्यूटराईज्ड लेजर लैवलर का कृषि में महत्व      | October, 2023   | आकाशवाणी, नजीबाबाद |

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

| Activities conducted  |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|
| No. of Training<br>programmesNo. of<br>DemonstrationsNo. of plant materials<br>producedVisit by<br>farmers (No.)Visit by<br>officials (No.) |  |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |  |

#### XV. INTERVENTIONS ON DISASTER MANAGEMENT/UNSEASONAL RAINFALL/ HAILSTORM/COLD WAVES ETC : Nil

#### XVI. DETAILS ON HRD ACTIVITIES

: Nil

#### XIV. CASE STUDIES/ SUCCESS STORY

#### Impact of evaluated, demonstrated and introduced technologies in district

| Сгор    | Current<br>Technology | Introduction<br>Year | Potential<br>of<br>Current<br>Tech.<br>(q/ha) | Demo.<br>Yield of<br>current<br>technology<br>(q/ha) | Net Return<br>(Rs/ha) | Technological<br>Gap (q/ha) | Area<br>Covered by<br>Tech. (ha) |
|---------|-----------------------|----------------------|---|--|-----------------------|-----------------------------|----------------------------------|
|         | DBW-187               | 2019                 | 96.66   | 71.00  | 119825.00             | 25.66                       | 80500                            |
|         | HD-3226               | 2019                 | 79.60   | 57.00  | 91125.00              | 22.60                       | 3200                             |
|         | PBW-723               | 2019                 | 63.20   | 51.00  | 88500.00              | 12.62                       | 450                              |
|         | DBW-303               | 2021                 | 96.80   | 50.60  | 96990.00              | 46.20                       | 8500                             |
|         | HD-2967               | 2014                 | 66.10   | 54.25  | 89372.50              | 11.85                       | 30000                            |
|         | WB-02                 | 2017                 | 58.80   | 53.87  | 84354.74              | 4.93                        | 4000                             |
|         | HPBW-01               | 2017                 | 64.80   | 52.50  | 81240.00              | 12.30                       | 4800                             |
| Wheat   | DBW-327               | 2022                 | 87.70   | 52.00  | 97280.00 35.70        |                             | 3500                             |
|         | DBW-332               | 2022                 | 78.30   | 50.00  | 89500.00              | 28.30                       | 1800                             |
|         | HD-3086               | 2016                 | 71.10   | 51.50  | 84275.00              | 19.60                       | 1200                             |
|         | WH-1105               | 2015                 | 71.60   | 53.37  | 87734.50              | 18.23                       | 850                              |
|         | DBW-173               | 2017                 | 57.00   | 46.62  | 72500.00              | 10.38                       | 14700                            |
|         | PBW-752               | 2019                 | 60.00   | 46.00  | 67983.00              | 14.00                       | 280                              |
|         | HD-3298               | 2021                 | 47.50   | 42.75  | 74542.00              | 4.75                        | 4200                             |
|         | HD-3059               | 2014                 | 59.40   | 47.75  | 74337.50              | 11.65                       | 1800                             |
|         | PB-1509               | 2014                 | 60.00   | 54.50  | 145500.00             | 5.50                        | 4200                             |
|         | PB-1637               | 2018                 | 65.00   | 57.50  | 155632.00             | 7.50                        | 3650                             |
| Rice    | PB-1718               | 2019                 | 60.00   | 52.50  | 138480.00             | 7.50                        | 2500                             |
|         | PB-1692               | 2021                 | 62.00   | 50.70  | 133478.10             | 11.30                       | 4200                             |
|         | PB-1885               | 2021                 | 62.00   | 52.70  | 135000.00             | 9.30                        | 3800                             |
|         | PM-31                 | 2018                 | 23.00   | 17.33  | 112000.00             | 5.67                        | 1500                             |
| Mustard | PM-32                 | 2022                 | 22.00   | 16.50  | 105000.00             | 5.50                        | 750                              |
|         | PM-33                 | 2022                 | 27.00   | 20.00  | 128000.00             | 7.00                        | 2200                             |
| Lentil  | L-4717                | 2018                 | 20.00   | 14.86  | 38528.00              | 5.14                        | 850                              |

#### 1. Varietal Adoption and Expansion in District

# 2. Varietal Diversification of Wheat change the productivity of district average yield

| Derreret           |         | D: 4-1-4                | \$75-1-1            |   |
|--------------------|---------|-------------------------|---------------------|---|
| rated<br>Varieties | Year    | average<br>yield (q/ha) | increased<br>(q/ha) |   |
|                    | 2014-15 | 27.03                   | 0                   | 3 |
| DBW-187<br>DBW-303 | 2015-16 | 31                      | 3.97                | 3 |
| PBW-723            | 2016-17 | 34.57                   | 7.54                |   |
| WB-02<br>HPBW-01   | 2017-18 | 34.6                    | 7.57                |   |
| HD-2967            | 2018-19 | 36.5                    | 9.47                | 1 |
| HD-3086<br>WH-1105 | 2019-20 | 37.1                    | 10.07               |   |
| HD-3059            | 2020-21 | 37.5                    | 11.04               |   |
| HD-3298            | 2021-22 | 38.25                   | 11.22               |   |
|                    | 2022-23 | 38.5                    | 11.47               |   |



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Annual Progress Report (Jan-Dec.2023)

#### 3. Wheat variety DBW-187 is Big way for District

The area under wheat is about 1, 55,000 ha in Bijnor district commonly grown wheat varieties PBW-550, PBW-723, HD-2967, HD-3086 and WH-1105. DBW-187 variety was released in 2019. Variety **DBW-187** was introduced and demonstrated by KVK Bijnor during Rabi-2019-20 through On Farm Testing & 2020-21 to 2022-23 at 91 farmer's field through FLD. The average yield at farmers field was recorded 71.00 q/ha. The average net profit per ha was recorded Rs. 119825/- . Due to disease free, high yield and give better yield in adverse condition the area under this variety has now spread to more than 80500 ha in just five years.

| Year    | Yield (q/ha) | Area Coverage (ha) |  |
|---------|--------------|--------------------|--|
| 2019-20 | 71.00        | Starting year      |  |
| 2020-21 | 68.00        | 18500              |  |
| 2021-22 | 65.00        | 37500              |  |
| 2022-23 | 55.00        | 62500              |  |
| 2023-24 |              | 80500              |  |

#### 4. Basmati Rice for Higher Economic Gain in District Bijnor (U.P):

The area under paddy is about 55,000 ha in district Bijnor, out of that 35,000 ha is under scented rice. Commonly grown scented rice varieties Pusa Basmati – 1, Pusa Basmati-1121 and Sarbati (Local, non identified and having 40% area in scented rice). The KVK, Bijnor demonstrated newly released high yielding basmati rice varieties for getting extra income from in comparison to other varieties. The successful farmer is Sri Pankaj Rana, Village- Sarifpur Khoraj, Block-Kotwali, District- Bijnor. Presently More than 150 farmers are growing the high yielding newly Basmati Rice varieties (Pusa Basmati-1509, Pusa Basmati-1637 and Pusa Basmati-1718) for marketing in form of rice instead of paddy.

| Taabnalaay            | Pro                        | )14 to till date           | Lecture                                   |  |                              |
|-----------------------|----------------------------|----------------------------|---|--|------------------------------|
| rechnology            | Training                   | OFT                        | FLD                                       | Extension activities                                     | delivered                    |
| Pusa Basmati-<br>1509 | 10 (with 200 participants) |                            | 115 FLD<br>Organized at<br>farmer's field | 12 Field day<br>programme organized<br>with 2250 farmers | 75 (with 28550 participants) |
| Pusa Basmati-<br>1637 | 04 (with 80 participants)  | 01<br>(with 05<br>farmers) | 30 FLD<br>Organized at<br>farmer's field  | 02 Field day programme<br>organized with 140<br>farmers  | 35 (with 10500 participants) |
| Pusa Basmati-<br>1718 | 05 (with 60 participants)  | 01<br>(with 05<br>farmers) | 55 FLD<br>Organized at<br>farmer's field  | 04 Field day programme<br>organized with 250<br>farmers  | 35 (with 10500 participants) |
| Pusa Basmati-<br>1692 | 05 (with 100 participants) | 01<br>(with 05<br>farmers) | 25 FLD<br>Organized at<br>farmer's field  | 02 Field day programme<br>organized with 240<br>farmers  | 40 (with 15500 participants) |

#### Initiatives by the KVK for popularization of the technology

| Varieties                                       | Grain<br>Yield<br>(qt/ha) | Cost of<br>cultivatio<br>n (Rs/ha) | Gross<br>Return<br>(Rs/ha) | Net<br>Return<br>(Rs/ha) | BCR  | % of<br>Yield over<br>local check<br>(qt/ha) | Additional<br>Net<br>Return<br>(Rs/ha) | Technol-<br>ogical<br>Expansion<br>(ha) |  |
|---|---------------------------|------------------------------------|----------------------------|--------------------------|------|--|--|---|--|
| PB-1509   | 54.50                     | 43000.00                           | 175500.00                  | 132500.00                | 4.08 | 26.74  | 59000.00                               | 7800                                    |  |
| PB-1637   | 57.50                     | 43428.00                           | 193060.00                  | 149632.00                | 4.44 | 33.72  | 76132.00                               | 3550                                    |  |
| PB-1718   | 52.50                     | 43870.00                           | 180850.00                  | 136980.00                | 4.12 | 22.09  | 63480.00                               | 3200                                    |  |
| PB-1692   | 50.70                     | 46386.00                           | 179864.00                  | 133478.10                | 3.81 | 22.09  | 63480.00                               | 2200                                    |  |
| Sarbati<br>(Local non<br>identified<br>variety) | 43.00                     | 42500.00                           | 116000.00                  | 73500.00                 | 2.72 |  |  |   |  |
|   | variety)                  |                                    |                            |                          |      |  |  |   |  |
|   |                           |                                    |                            |                          |      |  |  |   |  |

# **Economics of Basmati Rice**

#### Horizontal Spread of Basmati Rice in District Bijnor

| Veen |           | Initial Intervent | ions           | Lateral Spread in new areas |                 |                |  |
|------|-----------|-------------------|----------------|-----------------------------|-----------------|----------------|--|
| rear | Area (ha) | No. of villages   | No. of Farmers | Area (ha)                   | No. of villages | No. of farmers |  |
| 2014 | 4.0       | 5                 | 20             | -                           | -               | -              |  |
| 2015 | 5.0       | 8                 | 25             | 1100.0                      | 45              | 105            |  |
| 2016 | 5.0       | 10                | 25             | 4500.0                      | 67              | 245            |  |
| 2017 | 5.0       | 11                | 25             | 5650.0                      | 110             | 166            |  |
| 2018 | 5.0       | 13                | 25             | 6575.00                     | 185             | 350            |  |
| 2019 | 5.0       | 14                | 25             | 8250.00                     | 315             | 840            |  |
| 2020 | 5.0       | 15                | 25             | 11245.00                    | 585             | 1250           |  |
| 2021 | 5.0       | 16                | 25             | 19250.00                    | 810             | 1550           |  |
| 2022 | 5.0       | 15                | 25             | 22500.00                    | 1150            | 1840           |  |



#### Varietal Adoption (ha) of Basmati Rice Varieties in District

#### 5. Bio-fortified Varieties of crops for nutritional security and getting extra income:

Malnutrition has emerged as one of the most serious health issues worldwide. The consumption of unbalanced diet poor in nutritional quality causes malnutrition. Deficiency of proteins, essential amino acids, vitamins and minerals leads to poor health and increased susceptibility to various diseases, which in turn lead to significant loss in farm family income and affect the socio-economic structure. The newly developed biofortified crop varieties besides serving as an important source for livelihood to poor people assume great significance in nutritional security and gaining extra income.

The KVK, Bijnor demonstrated newly released Biofortified varieties (Wheat- WB-02 & HPBW-01, DBW-187, DBW-173, Mustard: Pusa Double Zero Mustard-31, Lentil: L-4717) from for getting extra income with nutritional security in comparison to other varieties.

| Crop  | Variety | Nutrient enriched  | Programm     | e conducted fr | om 2017 | to till date | Lecture      |
|-------|---------|--|--------------|----------------|---------|--------------|--------------|
|       |         |  | Training     | OFT            | FLDs    | Field days   | Delivered    |
|       |         |  | No (Farmers) | No (Farmers)   |         | No (Farmers) | No (Farmers) |
| Wheat | WB-02   | Rich in zinc 42.0 ppm) and iron (40.0 ppm) in comparison to 32.0 ppm zinc and 28.0 ppm iron in other varieties.                | 06 (120)     | 01 (05)        | 40      | 05 (272)     | 45 (35500)   |
|       | HPBW-01 | Rich in zinc 40.6<br>ppm) and iron (40.0<br>ppm) in comparison<br>to 32.0 ppm zinc and<br>28.0 ppm iron in<br>other varieties. | 06 (120)     | 01 (05)        | 25      | 04 (155)     | 45 (35500)   |
|       | DBW-187 | Rich in iron (43.1<br>ppm) in comparison<br>28.0 ppm iron in<br>other varieties.   | 15 (300)     | 01 (05)        | 91      | 04 (350)     | 45 (35500)   |
|       | DBW-303 | Rich in Protein (12.50%).  | 05 (100)     | 01 (05)        |         |              | 15 (15500)   |
|       | DBW-173 | Rich in iron (40.7<br>ppm) and Protein<br>(12.50%)   | 08 (160)     | 01 (05)        | 45      | 4 (280)      | 45 (35500)   |
|       | HD-3298 | Rich in iron (40.7 ppm).   | 02 (20)      | 01 (10)        | 10      |              | 15 (15500)   |

Initiatives by the KVK for popularization of the technology

| M       | Deres      | T                      | 04 (90)  | 70     | 05 (210) | 40 (25500) |
|---------|------------|------------------------|----------|--------|----------|------------|
| Mustard | Pusa       | Low erucic acid        | 04 (80)  | <br>12 | 05 (210) | 40 (25500) |
|         | Double     | (<2.0%) in oil and     |          |        |          |            |
|         | Zero       | glucosinoltes (<30     |          |        |          |            |
|         | Mustard-31 | ppm) in seed meal as   |          |        |          |            |
|         |            | compared to >40.0%     |          |        |          |            |
|         |            | erucic acid and >120   |          |        |          |            |
|         |            | ppm glucosinolates     |          |        |          |            |
|         |            | in popular varieties.  |          |        |          |            |
|         | Pusa       | Low erucic acid        | 04 (80)  | 12     | 01 (110) | 10 (5500)  |
|         | Double     | (<2.0%) in oil         |          |        |          |            |
|         | Zero       | compared to >40.0%     |          |        |          |            |
|         | Mustard-32 | erucic acid in popular |          |        |          |            |
|         |            | varieties.             |          |        |          |            |
|         | Pusa       | Low erucic acid        | 10 (350) | 50     |          | 30 (15500) |
|         | Double     | (<2.0%) in oil and     |          |        |          |            |
|         | Zero       | glucosinoltes (<30     |          |        |          |            |
|         | Mustard-33 | ppm) in seed meal as   |          |        |          |            |
|         |            | compared to $>40.0\%$  |          |        |          |            |
|         |            | erucic acid and >120   |          |        |          |            |
|         |            | ppm glucosinolates     |          |        |          |            |
|         |            | in popular varieties.  |          |        |          |            |
| Lentil  | Pusa       | Contains 65.0 ppm      | 03 (60)  | <br>30 | 02 (380) | 40 (25500) |
|         | Masoor     | iron as compared to    |          |        |          | · · · ·    |
|         | Ageti      | 55.0 ppm iron in       |          |        |          |            |
|         | (L-4717)   | popular varieties.     |          |        |          |            |

# Economics and Area Expansion of the Bio fortified varieties

| Demonstrated    | Old          | Productivity/Yield | d of the Crop (q/ha.) | Increase in            | Fynansion  |
|-----------------|--------------|--------------------|-----------------------|------------------------|------------|
| Technologies    | Technologies | Old Tech.          | Assessed Tech.        | Net Return<br>(Rs./ha) | area (ha.) |
| Wheat (WB-02)   | DBW-17       | 44.90              | 53.30                 | 89372.50               | 4000       |
| Wheat (HPBW-01) | DBW-17       | 44.90              | 52.50                 | 81240.00               | 4800       |
| Wheat (DBW-187) | DBW-17       | 44.90              | 71.00                 | 119825.00              | 80500      |
| Wheat (DBW-173) | DBW-16       | 38.50              | 46.62                 | 72500.00               | 14700      |
| Wheat (DBW-303) | HD-2967      | 47.50              | 55.00                 | 96990.00               | 8500       |
| Wheat (HD-3298) | PBW-226      | 38.00              | 42.75                 | 74542.00               | 4200       |
| Mustard (PM-31) | PYS-01       | 11.37              | 17.33                 | 108640.00              | 1500       |
| Mustard (PM-30) | PYS-01       | 11.37              | 15.50                 | 94000.00               | 650        |
| Mustard (PM-32) | PYS-01       | 11.37              | 16.50                 | 102000.00              | 750        |
| Mustard (PM-33) | PYS-01       | 11.37              | 20.00                 | 130000.00              | 2200       |
| Lentil (L-4717) | NL-1         | 9.03               | 14.86                 | 28869.00               | 610        |





# (i) Horizontal Spread of Biofortified Wheat Varieties in District Bijnor

|         | ]         | Initial Intervent  | tions             | Late         | ral Spread in no   | ew areas          |
|---------|-----------|--------------------|-------------------|--------------|--------------------|-------------------|
| Year    | Area (ha) | No. of<br>villages | No. of<br>farmers | Area<br>(ha) | No. of<br>villages | No. of<br>farmers |
| 2017-18 | 2.0       | 5                  | 5                 | -            | -                  | -                 |
| 2018-19 | 5.0       | 8                  | 25                | 250.0        | 44                 | 80                |
| 2019-20 | 7.0       | 12                 | 35                | 2600.0       | 110                | 550               |
| 2020-21 | 9.2       | 18                 | 72                | 11350.0      | 665                | 915               |
| 2021-22 | 6.9       | 21                 | 69                | 65200.00     | 1780               | 8510              |
| 2022-23 | 4.5       | 10                 | 30                | 95080.00     | 2500               | 15500             |
| 2023-24 | 5.0       | 15                 | 35                | 122280.00    | 3000               | 45000             |

#### Varietal Adoption (ha) of Biofortified Wheat Varieties in District:

| Name of<br>Variety  | Adoption<br>(ha) | Area Ac   | loption of Biofortifie | ed Wheat Varieties |
|---------------------|------------------|-----------|------------------------|--------------------|
| DBW-187             | 80500            | DBW-187   | ■ DBW-173              | ₩B-02              |
| DBW-173             | 14700            | ■ DBW-327 | ■ DBW-332              | Non Biofortified   |
| WB-02               | 4000             |           | 2.10/                  |                    |
| HPBW-01             | 4800             | 1%        | 24%                    |                    |
| DBW-303             | 8500             | 2%        |                        | 50%                |
| HD-3298             | 4200             | 5%        |                        |                    |
| DBW-327             | 3500             | 3%        | 00/                    |                    |
| DBW-332             | 1800             | 3%        | 9%                     |                    |
| Non<br>Biofortified | 38000            | 3%        |                        |                    |

| Year    |              | <b>Initial Intervent</b> | ions              | Lateral Spread in new areas |                    |                   |
|---------|--------------|--------------------------|-------------------|-----------------------------|--------------------|-------------------|
|         | Area<br>(ha) | No. of villages          | No. of<br>farmers | Area<br>(ha)                | No. of<br>villages | No. of<br>farmers |
| 2018-19 | 6.0          | 10                       | 30                |                             |                    |                   |
| 2019-20 | 6.0          | 13                       | 30                | 580.0                       | 215                | 410               |
| 2020-21 | 5.2          | 10                       | 22                | 910.0                       | 735                | 1100              |
| 2021-22 | 11.2         | 20                       | 37                | 3350.00                     | 1120               | 3510              |
| 2022-23 | 10.00        | 15                       | 25                | 3500                        | 1250               | 3840              |
| 2023-24 | 30.00        | 25                       | 75                | 5100                        | 1800               | 5200              |

#### (ii) Horizontal Spread of Biofortified Mustard Varieties in District Bijnor

#### Varietal Adoption (ha) of Biofortified Mustard Varieties in District:



#### (iii)Horizontal Spread of Biofortified Lentil Varieties in District Bijnor

| Year    |           | <b>Initial Intervent</b> | tions          | Lateral Spread in new areas |                 |                |
|---------|-----------|--------------------------|----------------|-----------------------------|-----------------|----------------|
|         | Area (ha) | No. of villages          | No. of farmers | Area (ha)                   | No. of villages | No. of farmers |
| 2018-19 | 1.0       | 08                       | 10             | 0                           | 0               | 0              |
| 2019-20 | 2.0       | 08                       | 10             | 210.0                       | 40              | 80             |
| 2020-21 | 5.0       | 12                       | 20             | 450.0                       | 85              | 120            |
| 2021-22 | 10.0      | 14                       | 25             | 610.0                       | 140             | 213            |
| 2022-23 | 20.0      | 18                       | 50             | 625.0                       | 152             | 283            |

#### Varietal Adoption (ha) of Biofortified Lentil Varieties in District:

| Name of Variety       | Adoption<br>(ha) | Pusa Massoor Aheti Non Biofortified |
|-----------------------|------------------|-------------------------------------|
| Pusa Massoor<br>Aheti | 610              | 42%                                 |
| Non Biofortified      | 840              |                                     |

| SUCCESS STO<br>1. Basmati ric | )R<br>e v | Y :<br>variety Pusa Basmati 1692 : A successful cultivation   |
|-------------------------------|-----------|---|
| Name of KVK                   | :         | Krishi Vigyan Kendra, Nagina (Bijnor)   |
| Introduction                  | ••        | <b>Technology (Variety)</b> Pusa Basmati 1692is developed by the IARI New Delhi and released during 2021. It is an early maturing Basmati rice variety with a seed to seed maturity of 110-115 days with high yield potential (73.0 qt/ha). It possesses semi-dwarf, non-lodging and non-shattering habit.  |
| KVK<br>intervention           | ••        | The area under paddy is about 53,000 ha in district Bijnor, out of that about 35,000 ha area under scented rice. Commonly grown scented rice varieties are Pusa Basmati-1, Pusa Basmati-1121 and Sarabati (Non identified and locally grown large scale). <b>Pusa Basmati 1692</b> variety was developed and released by IARI, New Delhi during 2021 and was introduced and demonstrated by KVK Bijnor during Kharif 2021 at 05 Farmers field and Kharif 2022 at 25 farmers field also. |
| Output                        | ••        | The average yield at Farmers field was 56.50 qt per ha (62.50 qt. maximum yield per ha.) with cost of cultivation of Rs. 44920.00 per ha. The average net profit per ha was recorded Rs. 127455.00 per ha. Due to semi-dwarf plant stature the lodging in Pusa Basmati 1692 is none as comparison to pusa-1121(12-17%). Early maturing (112-115 day crop duration), Disease incidence in PB-1692 is not seen while it is about 15-25% in Pusa-1121.                                     |
| Outcome                       | :         | This technology may be capable for increasing seed replacement ratio in district with<br>extra net return. Due to higher demand of seeds of this variety emerged an<br>entrepreneurship programme of seed production at farmer's field for better income.   |
| Impact                        | :         | The area under this variety has now spread to more than 3800 ha in just three year. Farmers are all satisfied with the yield of this variety and also claim that it is free from most of the disease. This variety increased seed replacement rate about 25 to 30 % in operational area of KVK and also emerged entrepreneurs of seed production of this variety. The successful farmer is <b>Sri Rituraj Singh</b> Village – Umari, Block – Nehtor.                                    |
|                               |           |   |



| 2. Bio Fortified V      | 2. Bio Fortified Wheat Variety HD-3298: A Successful cultivation |   |  |  |  |
|-------------------------|--|---|--|--|--|
| Name of KVK             | ••   | Krishi Vigyan Kendra, Nagina (Bijnor)   |  |  |  |
| Introduction            | •••  | Technology (Variety) HD-3298 is developed by the IARI, New Delhi released               |  |  |  |
|                         |  | during 2021. The variety <b>HD-3298</b> rich in iron (43.1 ppm) and protein (12.12%) in |  |  |  |
|                         |  | comparison to 28.00 ppm iron 8-10 % protein in other wheat varieties.                   |  |  |  |
| <b>KVK</b> intervention | •••  | The area under Wheat is about 155000 ha in district Bijnor, out of that about 75000     |  |  |  |
|                         |  | ha area is late sown condition. Commonly grown timely sown wheat varieties are          |  |  |  |
|                         |  | HD-3059, DBW-16, and PBW-226. Variety HD-3298 was introduced and                        |  |  |  |
|                         |  | demonstrated by KVK Bijnor during Rabi-2021-22, 2022-23 and 2023-24 at 55               |  |  |  |
|                         |  | farmer's field through OFT &FLD.  |  |  |  |
| Output                  | •••  | The average yield at Farmers field was 42.75 qt per ha (47.50 qt. maximum yield         |  |  |  |
|                         |  | per ha.) in very late sown condition (upto 10 January) with cost of cultivation of      |  |  |  |
|                         |  | Rs. 47520.00 per ha. The average net profit per ha was recorded Rs. 74542.00 per        |  |  |  |
|                         |  | ha. Maturing with 103-105 day crop duration, bold grained variety resistant against     |  |  |  |
|                         |  | yellow rust and leaf blight.  |  |  |  |

| Outcome | : | This technology may be capable for increasing extra net return of farmers due<br>higher yield and higher enrichment with iron and protein that resulted chapatti is<br>making better quality comparison to other varieties.  |
|---------|---|--|
| Impact  | : | The area under this variety has now spread to more than 7500 ha in just three year.<br>Farmers are all satisfied with the yield of this variety and also claim that it is better<br>for chapatti making. The successful farmer is <b>Sri Chandra Shekhar</b> Village – |



:

#### Entrepreneurship Development

| 1) Vermicompost Production and Marketing: |              |                         |                   |  |  |  |
|---|--------------|-------------------------|-------------------|--|--|--|
| Year                                      | Unit/Farmers | <b>Production</b> (qt.) | Yearly Net Income |  |  |  |
|   |              |                         | (Rs.) from system |  |  |  |
| 2015-16                                   | 05           | 1,500                   | 6,30,000.00       |  |  |  |
| 2016-17                                   | 11           | 2,700                   | 10,80,000.00      |  |  |  |
| 2017-18                                   | 19           | 3,250                   | 13,00,000.00      |  |  |  |
| 2018-19                                   | 27           | 4,890                   | 24,25,000.00      |  |  |  |
| 2019-20                                   | 30           | 5,200                   | 26,00,000.00      |  |  |  |
| 2020-21                                   | 42           | 6,100                   | 30,50,000.00      |  |  |  |
| 2021-22                                   | 60           | 6,550                   | 32,75,000.00      |  |  |  |

#### Successful Farmer Sh. Vinod Kumar, Village-Dharmsanagli, Kotwali, Bijnor Total Production: 600 qt. with Rs 300000.00 Income.



| 2) Sugarcai  | 2) Sugarcane Plant Nursery Production and Marketing |                         |                                     |  |  |
|--|---|-------------------------|-------------------------------------|--|--|
| Year   | Unit/Farmer   | <b>Production</b> (qt.) | Yearly Net Income (Rs.) from system |  |  |
| 2015-16  | 03  | 25,000                  | 75,000.00                           |  |  |
| 2016-17  | 09  | 60,000                  | 1,80,000.00                         |  |  |
| 2017-18  | 15  | 1,25,000                | 3,75,000.00                         |  |  |
| 2018-19  | 21  | 2,10,000                | 6,30,000.00                         |  |  |
| 2019-20  | 28  | 2,80,000                | 8,40,000.00                         |  |  |
| 2020-21  | 40  | 3,65,000                | 10,95,000.00                        |  |  |
| 2021-22  | 60  | 5,25,000                | 15,75,000.00                        |  |  |
| Successful Farmer Sh. Amrik Singh, Village-Prempuri, Afjalgarh, Bijnor |   |                         |                                     |  |  |

Total Production: 60000 Plnat. with Rs 180000.00 Income during 2021-22.



#### Basmati Rice Production and Marketing: Basmati Rice Area in district : 35,000 ha. Major Varieties in district : Pusa Basmati-1121, Pusa Basmati-1637, Pusa Basmati-1718, Pusa Basmati-1509, Pusa Basmati-1692, Pusa Basmati-1, Pusa Basmati-1401

| Year    | <b>Unit/Farmer</b> | <b>Production</b> (qt.) | Yearly Net Income (Rs.) from system |
|---------|--------------------|-------------------------|-------------------------------------|
| 2015-16 | 10                 | 300                     | 15,00,000.00                        |
| 2016-17 | 16                 | 512                     | 25,60,000.00                        |
| 2017-18 | 35                 | 1,155                   | 63,52,500.00                        |
| 2018-19 | 44                 | 1,540                   | 84,70,000.00                        |
| 2019-20 | 60                 | 2,040                   | 1,22,40,000.00                      |
| 2020-21 | 65                 | 2,340                   | 1,40,40,000.00                      |
| 2021-22 | 75                 | 2,625                   | 1,57,50,700.00                      |

Successful Farmer Sh. Pankaj Rana, Village-Sarifpur, Kotwali, Bijnor Total Production: 140 qt Rice with Rs 840000.00 Income during 2021-22.



| 4) Integrated Farming System: |                   |                        |                            |  |  |
|-------------------------------|-------------------|------------------------|----------------------------|--|--|
| Successful Fari               | ner               | A                      | Area: 9.0 Acer             |  |  |
| Narendra Sing                 | ,h                | Major Crops: S         | Sugarcane, Wheat and Paddy |  |  |
| Hakikatpur, Kiratpur          | (Bijnor)          | Total Income           | e in One Year: 795000.00)  |  |  |
| Aft                           | er adopting Integ | grated Farming Sys     | tem                        |  |  |
| Cron/Entorprises              | Unit/Formor       | <b>Production</b> (at) | Yearly Net Income (Rs.)    |  |  |
| Crop/ Enterprises             | Unitratmet        | r rouuction (qt.)      | from system                |  |  |
| Vermicompost Production       | 24 Beds           | 1200                   | 5,00,000.00                |  |  |
| Fish Farming                  | 1.0               | 12.50                  | 1,50,000.00                |  |  |
| Singhara Production           | 1.8               | 25.00                  | 70,000.00                  |  |  |
| Poultry Production            | 250               | 3000 Eggs              | 3,00,000.00                |  |  |
| Dairy                         | 10                | 5000 Lit. Milk         | 1,50,000.00                |  |  |
| Basmati Rice Production       | 2.0               | 40.00                  | 70,000.00                  |  |  |
| Sugarcane                     | 5.0               | 2400.00                | 3,75,000.00                |  |  |
| Wheat Production              | 2.0               | 35.00                  | 48,000.00                  |  |  |
| Mustard Production            | 1.0               | 8.00                   | 9,000.00                   |  |  |
|                               | •                 | Total                  | 16.72.000.00               |  |  |



# 5) Organic Farming:

| Total area Under Organic Farming in District: 3550 ha           |   |  |  |  |  |
|---|---|--|--|--|--|
| Major Product   | : Basmati Rice, Jeggry, Vinegar, Mustard Oil and Vegetables |  |  |  |  |
| Total Earning during year: 42.0 Crore (Export value: 8.0 Crore) |   |  |  |  |  |
| Brand based Major Producer                                      |   |  |  |  |  |

| Brand                        | Major Product                                 | Annual Turnover (Rs) |
|------------------------------|---|----------------------|
| Singh Brand                  | Basmati Rice, Mustard Oil, Deshi Ghee         | 7,50,000             |
| Satyom                       | Basmati Rice, Mustard Oil, Gur, Pickles, Turm | eric 6,50,000        |
| Umari Organics               | Basmati Rice, Mustard Oil, Gur, Turmeric      | 5,80,000             |
| Kaka                         | Basmati Rice, Vinegar                         | 3,50,000             |
| Pingaksh                     | Basmati Rice, Mustard Oil                     | 6,25,000             |
| सिंह ब्राण्ड<br>जैविक उत्पाद | सिंह ब्राण्ड<br>तैविक उत्पाद<br>जैविक उत्पाद  |                      |

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#### 6) Agriculture Diversification:

| 0) Agriculture Diversi | <i>b)</i> Agriculture Diversification. |                    |                     |  |  |  |
|------------------------|--|--------------------|---------------------|--|--|--|
| Crop/ Enterprises      | Unit/                                  | Annual Return (Rs) | Successful Farmer   |  |  |  |
|                        | Area (ha)                              |                    |                     |  |  |  |
| Dragon Fruit Farming   | 03                                     | 1,35,000-3,50,000  | Rituraj Singh       |  |  |  |
|                        |  |                    | Umari, Nehtor       |  |  |  |
| Banana Cultivation     | 115                                    | 3,50,000-6,75,000  | Jahid Hussain       |  |  |  |
|                        |  |                    | Budhanagla, Seohara |  |  |  |
| Pearl Farming          | 01                                     | 1,25,000           | Bijendra Singh      |  |  |  |
| _                      |  |                    | Ramthera Dhampur    |  |  |  |





# Innovative methodology for Transfer of Technology

#### (a) Progressive and leader farmers developed as Extension Agents

During 2014 the KVK developed 100 progressive farmers as Extension agents for the dissemination of new technologies in other fellow farmers of the district. The trained farmers came to KVK time to time for update their skills through newly developed agro-techniques.

| Thematic Area                                | No. of expert<br>farmers | Interaction with<br>another farmers | No. of village<br>covered |
|--|--------------------------|-------------------------------------|---------------------------|
| Trench method and intercropping in sugarcane | 75                       | 4800                                | 65                        |
| IPNM in crops                                | 40                       | 3600                                | 45                        |
| Varietal diversification and seed production | 60                       | 4500                                | 65                        |
| IPM technique                                | 15                       | 800                                 | 20                        |
| New orcharding techniques                    | 20                       | 430                                 | 10                        |
| Micro irrigation system                      | 05                       | 450                                 | 08                        |
|  | EAM                      | चोपाल प्रार्थ                       | der nel                   |



#### (b) Spread of technology through Sugarcane Collection Centers

The district Bijnor has 760 sugarcane collection centres. KVK prepares one page technology message which is pasted on the walls of the centre where farmers from the area Jurisdiction come for delivering sugarcane for onward transportation to factories. Many times farmers enquire through mobiles of Scientists as per need. This method is adopted during sugarcane harvesting time starting from November – April. This is one of the most effective technology transfers in the shortest time period.

#### (c) Technological message delivered through Social Media

The KVK scientist prepares technological message and sends it to directly Farmers of the district. Presently KVK scientists govern 10 Whatsapp groups with 1800 farmers and also use of other social media like Facebook, Twitter & YouTube.



Facebook Twitter YouTube

- : https://www.facebook.com/Bijnor-KVK-309300895907675/
- : https://twitter.com/KVKBijnor
- : https://www.youtube.com/watch?v=5W7h9dx5vWs&pbjreload=10

| (d) Problem | (d) Problem diagnosed/technology popularized through Phone calls           |                           |  |
|-------------|--|---------------------------|--|
| Year        | No. of phone calls/ Requests received from<br>farmers for farm Assistances | No. of problems addressed |  |
| 2013-14     | 1750   | 2150                      |  |
| 2014-15     | 1882   | 2282                      |  |
| 2015-16     | 1605   | 2005                      |  |

| 2016-17 | 2042   | 2542   |
|---------|--------|--------|
| 2017-18 | 2230   | 2730   |
| 2018-19 | 2050   | 2230   |
| 2019-20 | 2120   | 2145   |
| 2020-21 | 2500   | 2700   |
| 2021-22 | 1800   | 1872   |
| 2022-23 | 2100   | 2200   |
| Total   | 20,079 | 22,856 |

| (e) Transfer of technology through Electronic & Print Media |   |                    |  |
|---|---|--------------------|--|
| Media   | Thematic area of Talk                                     | No. of Talk/ Print |  |
| Radio   | Varietal, Weed Management, ICM, IPM, Horticultural Crops. | 22                 |  |
| TV  | Varietal, Weed Management, ICM, IPM, Horticultural Crops. | 50                 |  |
| Newspaper   | Varietal, Weed Management, ICM, IPM, Horticultural Crops. | 165                |  |

# (f) Transfer of technology through Technology Park

#### 1. Technological display on Wheat Crops (Total Visitors: 3650)

| Thematic Area             | Tech. display | Major Highlighting Technology   |  |
|---------------------------|---------------|---|--|
| Varietal                  | 45            | Timely Sown: HD-2967, HD-3226, DBW-303, DBW-187, PBW-723, HD-3086, DBW-88, WB-02, HPBW-01 & WH-1105           Late Sown: HD-3059, DBW-90, WH-1124, DBW-173, PBW-752 |  |
| Resource<br>Conservations | 07            | Zero Tillage+ DBW-303, Zero Tillage+ DBW-187, Zero Tillage + DBW-222, Zero Tillage + HD-3226, Zero Tillage + HD-3086, Zero Tillage + HD-2967.                       |  |



# 2. Technological display on Lentil & Mustard Crops (Total Visitors: 3650)

| Thematic Area                    | Tech. display | Major Highlighting Technology  |
|----------------------------------|---------------|--|
| Varietal                         | 03            | PL-8, PL-7 and Pusa Masoor Ageti   |
| Varietal                         | 11            | Pusa Mustard-32, Pusa Mustard-31, Pusa Mustard-26, Pusa Mustard-27, Pusa Mustard-30, NRCHB-101, PYS-1, YSH-0401, Pusa-25, PR-19 & PR-20  |
| ICM                              | 02            | Mustard + Lentil, Mustard + Gram   |
| The state of the second state of | State States  | A CARLES AND A C |



| 3. Technological display on Rice Crops (Total Visitors: 4550) |               |  |  |
|---|---------------|--|--|
| Thematic Area   | Tech. display | Major Highlighting Technology  |  |
| Varietal  | 30            | Scented Rice: PB-1692, PB-1718, PB1728, PB-1637, PB-1509, PB-1121, PB-1, PB-1460, Basmati-370, T-3, Pant Basmati-1, Pant Basmati-2<br>Coarse Rice: Nagina-22, Nagina-12 NDR-3112, PR-123, PR-124, PR-126<br>Hybrid Rice: Arize 6444 Gold, VNR-2245, SAVA-127 |  |
| Resource<br>Conservation                                      | 05            | DSR+ PB-1692, DSR+ PB-1718, DSR+ PB-1637, DSR+ PB-1509,  |  |
| Organic   | 01            | Organic Basmati Production   |  |
|   |               |  |  |

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|                               | Other Activities  |   |  |   |  |  |
|-------------------------------|---|---|--|---|--|--|
|                               | Gau - Adharit Natural Farming : Training and demonstration unit   |   |  |   |  |  |
| SN Programme No. of Programme |   | Date  | Participant  |   |  |  |
| 1                             | Two Days Training   | 03  | 13-14.12.2022, 16-<br>17.01.2023, 21-23.02.2023 &<br>20-21.12.2023   | 190   |  |  |
| 2                             | One day Training cum<br>awareness program   | 04  | 27.12.2022, 05.01.2023,<br>10.01.2023, 15.02.2023,   | 203   |  |  |
| 3                             | District Level<br>awareness program   | 01  | 18.03.2023   | 210   |  |  |
| 4                             | Block Level<br>awareness program  | 02  | 12.01.2023, 23.01.2023   | 203   |  |  |
| 5                             | Demonstraion  | 16 (02 Farm) 2022-23                          |  | 14  |  |  |
|                               |   | 07 (02 Farm) 2023-24                          |  | 05  |  |  |
|                               | A list of the set of the |   |  |   |  |  |
|                               | Harganpur, Uttar<br>GC66+0F8, Harganpur,<br>Lat 29.526172°<br>Long 78.410957°<br>05/01/23 01:05 PM GM   | Pradesh, India<br>Uttar Pradesh 246762, India | Saté se dia ar aita<br>Saté s | Ges Map Camera<br>Char Pradesh, India<br>Rd, Jalalpur Bhunga, Uttar |  |  |

Annual Progress Report (Jan-Dec.2023)

|  | Center of Excellence on Basmati Rice   |  |  |  |  |  |
|--|--|--|--|--|--|--|
| Program organized under Center of Excellence |  |  |  |  |  |  |
| SN   | Program Name   | No   | Participant  |  |  |  |
| 1  | Farmer Training  | 07   | 285  |  |  |  |
| 2  | Skill Training Programme   | 04   | 70   |  |  |  |
|  | plt farm coog, nollon (faorite) generations         neura carsundi viza oph ie skulska faoritanzu. #a         thocz sifus poechlečke: anzwerat pom         plt Renormation (faorite) generations         neura carsundi viza oph ie skulska faoritanzu. #a         thocz sifus poechlečke: anzwerat pom         plt Renormation (faorite) generations  | elor anal<br>organe<br>organe  | Ar tei altor getearen sans<br>ar abert (artaren sans)<br>artariaren artariaren sans)<br>artariaren artariaren artariar<br>artariaren artariaren art<br>artariaren artariaren arta |  |  |  |
| 3  | Basmati rice nursery management at farmer's field  | 10   | 150  |  |  |  |
| 4  | Seed production at Krishi Vigyan Kendra  |  | 155.00 qt. seed produced   |  |  |  |
|  |  | And the second   | 18-10-15-15-15-15-15-15-15-15-15-15-15-15-15-  |  |  |  |
|  | Weiner of a case line and the case of a case o |  |  |  |  |  |
| 5  | Quality Basmati production at farmer's field :<br>200 farmers produced 520 qt. of organic<br>basmati rice, during Kharif 2023  |  |  |  |  |  |
| 6  | Quality seed production at farmer's field : 100<br>farmers produced 1592 qt seed of basmati rice,<br>during Kharif 2023  |  |  |  |  |  |
| 7  | Presently 03 FPOs are fully involve in the<br>production and marketing of organic basmati<br>rice  |  | The set of th  |  |  |  |
| 8  | Major progressive farmers developed their own<br>brands under the guidance of KVK Bijnor :<br>Singh Brand, Satyom, Umari Organics. Kaka,<br>Pingaksh and Rana Ji Basmati   | माना जी।<br>मारायमनी।<br>मारायमनी।<br>मारायमनी।<br>के के मारायमने<br>मिरान्मिकार्यमाना<br>कि कि निकार्यना कि | инание и и и и и и и и и и и и и и и и и и   |  |  |  |

# Kharif Abhyan 2023

- कृषि विज्ञान केन्द्र, नगीना द्वारा खरीफ अभियान 2023 के अन्तर्गत जनपद के कुल 14 गॉव में कार्यक्रम आयोजित किया गया, जिसमें कुल 492 कृषकों द्वारा सहभागिता की गयी।
- कार्यक्रम का सजीव प्रसारण/प्रकाशन डी0डी0 किसान चेनल एवं जनपद के 07 प्रतिष्ठित प्रकाशन मिडिया हाउस द्वारा लगभग 30 प्रकाशनों द्वारा किया गया।
- खरीफ अभियान 2023 का मुख्य बिन्दू मृदा स्वास्थ प्रबन्धन, बीज शोधन, निर्यात योग्य बासमती उत्पादन, खरीफ फसलों की उन्नत प्रजातियों, मोटा अनाज उत्पादन तकनीकी एवं प्राकृतिक खेती रहा, जिसके अन्तर्गत कृषकों को जागरूक एवं प्रशिक्षित किया गया।

| Date     | Part. | Name of<br>Scientist  | Place  |  |
|----------|-------|---|--|--|
| 16.05.23 | 105   | Dr. Shakuntala<br>Gupta, Dr. K.<br>K. Singh,<br>Dr. Shivangi,<br>Dr. Pintoo<br>Kumar      | Bijnor, Uttar Pradesh, India<br>Unnamed Roady.           Unnamed Roady.           Varget           Bijnor, Uttar Pradesh, India<br>Unnamed Roady.           Unnamed Roady.           Ung 78.296437#           Bijnof.23 12:48 PM GMT + 05:30   | Gest Agari, Uttar Pradesh 246701, India<br>BGG+7HJ, Agari, Uttar Pradesh 246701, India<br>BGG+240, Agari, Uttar Pradesh 246701, India<br>BGG+240, Agari, Uttar Pradesh 246701, India<br>BGG+240, 2337914*<br>Long 78.176098*<br>B(ob5/23 03:29 PM GMT +05:30   |
|          |       |   | Dallu Dhanaura   | Agri   |
| 17.05.23 | 45    | Dr. Shakuntala<br>Gupta, Dr. K.<br>K. Singh,<br>Dr. Pritama<br>Gupta, Dr.<br>Pintoo Kumar | Google       Instanta di stata di s   | Ecode  |
|          |       |   | Nejowali Ganvadi   | Rampurdas  |
| 18.05.23 | 65    | Dr. Shakuntala<br>Gupta, Dr. K.<br>K. Singh,<br>Dr. Pintoo<br>Kumar                       | Congle       Cashington Dikki, uttar Pradesh, India disfa-tyce, Jamaipur Dikki, Uttar Pradesh, Jamaipur Dikki, Jamaipur Dikki, Uttar Pradesh, Jamaipur Dikki, Jamaipur Dikki   |  |
| 10.05.22 | 60    | Dr. Shakuntala  | Jamaipur Dnikii  | Harganpur  |
| 19.03.23 | 00    | Gupta, Dr. K.<br>K. Singh,<br>Dr. Pintoo<br>Kumar   | Ders Map Camera<br>Der States<br>Der States<br>D | Gadbivan   |
| 22.05.23 | 82    | Dr. Shakuntala  |  | मि का पंचायतमवनग्रा पंकालारोडी कोतवाली   |
|          |       | Gupta, Dr. K.<br>K. Singh,<br>Dr. Shivangi,<br>Dr. Pintoo<br>Kumar                        | Image: State Stat  | arther and arther arthe |
|          |       | 1   | Kusanput Latap   | IXAIAAIIUI I   |

| 23.05.23 | 60 | Dr. Shakuntala<br>Gupta, Dr. K.<br>K. Singh,<br>Dr. Shivangi,<br>Dr. Pintoo<br>Kumar | Image: State of the state o | Pil Barren taber, soften (Barren)<br>Pil Barren taber, soften (Barren)<br>Pil Barren taber, soften (Barren)<br>Pil Barren taber, soften (Barren)<br>Datalepur Bhunga, Uttar Pradesh, India<br>Ustale Road, Jaleipur Bhunga, Uttar Pradesh, India<br>Ustale Road, Jaleipur Bhunga, Uttar Pradesh 246782, India<br>Let 29.425691<br>Soggle |
|----------|----|--|---|--|
|          |    |  | Dharmsanagli  | Bhurapur   |
| 24.05.23 | 43 | Dr. Shakuntala<br>Gupta, Dr. K.<br>K. Singh,<br>Dr. Shivangi                         | Image: State Stat               |  |
|          |    |  | Kira  | tpur   |
| 26.05.23 | 32 | Dr. Shakuntala<br>Gupta, Dr. K.<br>K. Singh,<br>Dr. Shivangi                         | Code 20 0100 PM MMT +06:30  |  |

# खरीफ अभियान 2023 मीडिया की नजर से



| Status of revolving fund (Rs. in lakhs) |  |                              |                                   |  |  |  |  |  |
|---|--|------------------------------|-----------------------------------|--|--|--|--|--|
| Year                                    | Opening balance<br>as on 1 <sup>st</sup> April | Income<br>during the<br>year | Expenditure<br>during the<br>year | Net balance in<br>hand as on 1 <sup>st</sup><br>April of each year |  |  |  |  |
| April 2011 to March 2012                | 10,27,297.54                                   | 9,89,554.00                  | 12,33,093.00                      | 7,83,759.54  |  |  |  |  |
| April 2012 to March 2013                | 7,83,759.54                                    | 6,75,002.00                  | 12,82,714.00                      | 1,76,047.54  |  |  |  |  |
| April 2013 to March 2014                | 1,76,047.54                                    | 15,40,487.00                 | 12,90,660.00                      | 4,25,874.45  |  |  |  |  |
| April 2014 to March 2015                | 4,25,874.45                                    | 10,29,033.00                 | 13,52,613.00                      | 1,02,294.45  |  |  |  |  |
| April 2015 to March 2016                | 1,02,294.45                                    | 9,47,854.00                  | 9,22,097.95                       | 1,28,050.50  |  |  |  |  |
| April 2016 to March 2017                | 1,28,050.50                                    | 7,68,723.94                  | 7,82,472.24                       | 1,14,301.70  |  |  |  |  |
| April 2017 to March 2018                | 1,14,301.70                                    | 1,96,307.00                  | 11,25,213.60                      | 1,85,395.09  |  |  |  |  |
| April 2018 to March 2019                | 1,85,395.09                                    | 12,88,585.00                 | 9,82,998.00                       | 4,90,982.55  |  |  |  |  |
| April 2019 to March 2020                | 4,90,982.55                                    | 8,26,076.55                  | 11,04,560.26                      | 2,12,498.29  |  |  |  |  |
| April 2020 to March 2021                | 2,12,498.29                                    | 14,12,668.00                 | 12,63,010.00                      | 3,62,156.29  |  |  |  |  |
| April 2021 to March 2022                | 3,62,156.29                                    | 4,59,213.00                  | 1,79,308.00                       | 4,79,256.69  |  |  |  |  |
| April 2022 to March 2023                | 4,79,256.69                                    | 17,94,223.00                 | 14,83,901.00                      | 7,89,578.69  |  |  |  |  |
| April 2023 to till Date                 | 7,89,578.69                                    |                              |                                   |  |  |  |  |  |

# XIX Achievement of Special programmes

| <b>1</b> ) | Achievenient of skill development training runded by DAC& IV |                             |                   |           |                     |        |        |        |       |        |       |
|------------|--|-----------------------------|-------------------|-----------|---------------------|--------|--------|--------|-------|--------|-------|
| c          |  |                             | Duration<br>(hrs) | No. of    | No. of Participants |        |        |        |       |        |       |
| J.<br>No   | SubSector*   | QP Name *                   |                   | Courses   | SCs/STs             |        | Others |        | Total |        | ΤΟΤΑΙ |
| INU.       |  |                             |                   | Organized | Male                | Female | Male   | Female | Male  | Female | IOIAL |
| 1          | Agriculture Crop<br>Production                               | Small Scale Mushroom Grower | 200               | 1         | -                   | -      | 16     | 04     | 16    | 04     | 20    |
|            |  | TOTAL                       |                   | 1         | -                   | -      | 16     | 04     | 16    | 04     | 20    |

# 1) Achievement of skill development training funded by DAC& FW

# 2) Achievements under Crop Residue Management (CRM) Project by KVKs

#### a) CRM Machinery procured by KVKs

|   | Name of             | No. of            | Area<br>covered<br>(ha) | No. of<br>farmers<br>covered | Result               |                       |                     |                                   |                           |           |  |
|---|---------------------|-------------------|-------------------------|------------------------------|----------------------|-----------------------|---------------------|-----------------------------------|---------------------------|-----------|--|
| Name of machine                           | machine<br>procured | demo<br>conducted |                         |                              | Demo yield<br>(q/ha) | Check yield<br>(q/ha) | Increase in yield % | Cost of<br>cultivation<br>(Rs/ha) | Net return<br>(demo plot) | B:C ratio |  |
| Happy Seeder                              | 0                   | 100               | 40                      | 100                          | 52.2                 | 53.85                 | 3.06                | 44,417                            | 104052                    | 3.64      |  |
| Reversible M.B. Plough                    | 1                   |                   |                         |                              |                      |                       |                     |                                   |                           |           |  |
| Paddy Straw Chopper/<br>Shradder/ Mulcher | 3                   |                   |                         |                              |                      |                       |                     |                                   |                           |           |  |
| Zero Till Drill                           | 0                   |                   |                         |                              |                      |                       |                     |                                   |                           |           |  |
| Rotavator                                 | 0                   |                   |                         |                              |                      |                       |                     |                                   |                           |           |  |
| Tractor                                   | 1                   |                   |                         |                              |                      |                       |                     |                                   |                           |           |  |
| Total                                     | 5                   | 100               | 40                      | 100                          | 52.2                 | 53.85                 | 3.06                | 44,417                            | 104052                    | 3.64      |  |

| S.No. | Name of the Machine/ Equipment          | No. of machines procured |
|-------|---|--------------------------|
| 1     | Happy Seeder                            | 0                        |
| 2     | Reversible M.B. Plough                  | 1                        |
| 3     | Paddy Straw Chopper/ Shradder / Mulcher | 3                        |
| 4     | Zero Till Drill                         | 0                        |
| 5     | Rotavator                               | 0                        |
| 6     | Tractor                                 | 1                        |
|       | Total                                   | 5                        |

| S. No. | Name of IEC activity   | No. of activities | No. of Participants |
|--------|--|-------------------|---------------------|
| 1      | Kisan Melas organized  | 01                | 450                 |
| 2      | Awareness programmes conducted at Village Panchayat/ Block/ District Level           | 04                | 555                 |
| 3      | Mobilization of schools and colleges through essay completion, painting, debate etc. | 04                | 1000                |
| 4      | Demonstration conducted (ha)   | 02                | 150                 |
| 5      | Training Programmes conducted  | 03                | 75                  |
| 6      | Exposure visits organized  | 03                | 150                 |
| 7      | Field /harvest days organized  |                   |                     |
| 8      | Other Extension Activities Conducted with collaboration of district line departments | 15                | 5500                |
|        | Total  | 32                | 7880                |

#### b) IEC activities organized under CRM Project by KVKs

# c) Other IEC activities organized under CRM Project by KVKs

| S. No. | Name of IEC activity   | No. of activities      |
|--------|--|------------------------|
| 1      | Advertisement in Print media   |                        |
| 2      | Column/Articles in newspaper and magazines etc.  | 320                    |
| 3      | Hoarding fixed (at Mandi/ Road side/Market/ Schools/ Petrol pump/ Panchayat etc.)                | 10                     |
| 4      | Poster/Banner placed   | 10                     |
| 5      | Publicity material - leaflets/ pamphlets etc. distributed  | 05 Types (6000 copies) |
| 6      | TV programmes/ panel discussions Doordarshan/ DD-Kisan and other private channels/Radio telecast | 45 Episode             |
| 7      | Wall writing   | 90                     |
|        | Total  | 480                    |
#### **Glimpses of CRM Activities** सस्दार बल्तभगई पटेल कृषि एवं प्रोद्योगिक विश्वयिद्यालय मेरठ उन् प्र कृषि विज्ञान केन्द्र, नगीना (बिजनौर) 🐰 फसल अवशेष प्रबन्धन परियोजना eafer पाँच दिन्द्रीय कृषव शिक्षण 25 2 20 30 GPS Map Camera 💽 GPS Map Camera SPS Map Camera Jalalpur Bhunga, Uttar Pradesh, India alalpur Bhunga, Uttar Pradesh, India Ismailpur Dami, Uttar Pradesh, India CCR4+9V9, Bijnor - Nagina Rd, Jalalpur Bhunga, Uttar Pradesh 246762, India CR4+9V9, Bijnor - Nagina Rd, Jalalpur Bhunga, Uttar Pradesh 246762, India FGRR+J6J, Ismailpur Dami, Uttar Pradesh 246724, India Lat 29.44097° Lat 29.440838° Lat 29.491778° Long 78.407318° Long 78.407452° Long 78.540153° 29/10/23 01:51 PM GMT +05:30 03/10/23 12:56 PM GMT +05:30 04/10/23 12:05 PM GMT +05:30 Google कृषि विज्ञान केन्द्र . नगीना (बिजनीर कृपि विज्ञान केन्द्र नसीना (विजनौर) 😻 कृषि विज्ञान केन्द्र, जगीना (विजनोर) 📱 क्रधि विजान केन्द्र भगीना (बिजनीर) 💓 फसल अवशेष प्रबन्धन परियोजना पाँच दिवसीय कृषक प्रशिक्षण GPS Map Camera GPS Map Camera Jalalpur Bhunga, Uttar Pradesh, India Jalalpur Bhunga, Uttar Pradesh, India CCR4+9V9, Blinor - Nagina Rd, Jalalpur Bhunga, Uttar Pradesh 246762, India CCR4+9V9, Bijnor - Nagina Rd, Jalalpur Bhunga, Uttar Pradesh 246762, India Lat 29.44082° Lat 29.441044° 1 Long 78.407298° Long 78.407237° 09/10/23 01:38 PM GMT +05:30 13/10/23 03:08 PM GMT +05:30 Google Google ्रिये विकास स्वार्थिक के प्रारंभव – सब दाउना कसान एकत्र हा । क सारत्व मा यह जसरस्ताः त्यांगा काम आसि सार्थका समी सित्वी गानो से ओर रियल त्यांक्ष में अन्तर हैं। गए। किसलों ने आपति जसातें गण्ना क्रम केंद्र पर अपना तोल कार्यकर्ता बक्रिमान मैन्द्रर परि निराव फसलों के अवशेष न जलाएं: डा विद्यार्थियो हेतु फसल अवशेष प्रबंधन जागरूकता कार्यक्रम आयोजित इन्टर कालेज के राष्ट्र वेदना संवाददा त्यको खेन में ही पिला करके वेम्ट विकास शर्मा ग्रामीण स्तरीय डी कंपीजर का प्रयोग करके उनको कृषि विज्ञान केन्द्र, नगीना (विजनौर) नगीना। डा. के के सिंह , विज्ञान केल्... जागरूकता कार्यक्रम खेतों में ही सड़ा कर खेत की उर्वरा वैज्ञानिक कषि विज्ञान केंद **इसल अवशेष प्रवन्धन** परियोज शक्ति को बढाएँ साथ ही साथ उनहोंने नगीना द्वारा फसल अवशेष प्रकं-शाह टाइम्स संवाददाता यह भी बताया कि वेस्ट डी कंपोजर १८७ अवशेष प्रबन्धन प्रस्थित के आस्त्र ान परियोजना अंतर्गत राधा नगीना। कपि विज्ञन केंद्र टाग किसान भाई अपने खेत पर अपने घर पराली प्रबन्धन पखवाड़ सरस्वती इन्टर कालेज फसल अवशेष प्रबंधन परियोजना के अन्तर्गत पर लगातार कैसे बना सकते है। साथ प्राम्सिस्टर्तरीय कृषक जागरूकता कार्यक्रम मिरजालीपुर जागरूकता अंतर्गत इस्माइलपुर दमी, ब्लॉक कोतवाली में ग्रामीण स्तरीय हो गन्ना सहफसल उत्पादन तकनीक को जानकारी किसानो को जागरूक कार्यक्रम आयोजित किया गया किया। डॉ. पिंटू कुमार वैज्ञानिक कृषि विज्ञान नगीना बिजनौर ने किसानां से जागरूकता कार्यक्रम आयोजित किया साथ ही जपस्थित विद्यार्थियों मे र यमी, प्लॉक : कोतवाली Pola Malak अपर मवा मध्य पर्यावरण संबंधी एवं फसल गणा। बुधवार को आयोजित कार्यक्रम को वैज्ञानिक डा. केके सिंह ने मध्य प्रयोधरन सकता एव प्रसल अयहेष प्रबंधन तकनीकी के अपनी कसलों के अवहोबों को प्रदूषित होने से बचायें। उक्त जैसे म गेहूं के पूसे से धान की हो या गर्ने की पत्ती और उसको **धानपुर** व्यवहा अनुरोध है कि किसान साथियों अपने रि रहे। खेतों में वर्तमान समय में ६ गाम विषय पर ड्राइंग पेटिंग और ना जलाएं फसलों के अवशेषों कार्यक्रम में कृषि विज्ञान केंद्र पराली से मशरूम जप्पादन कर खेत में ही मिला करके वेस्ट किसानों को संबोधित करते हुए कहा ट्राइकोडमां प्रति लीटर पानी के दर से GPS Map Camer. निबंध लेखन का कंपटीशन को जलाने से मृदा, वायु नगीना की प्रभारी ठॉ शकुंतला सकते हैं, साथ ही साथ पराली ठी कंपोजर का प्रयोग करके कि किसान साधियों अपनी फसलों के घोल बनाकर धान की फसल में कराया गया है जिसमें उपस्थित ,वातावरण आदि में गंभीर गुप्ता ने उपस्थित विद्यार्थियों से गत्ते और जैसे उत्पाद बनाए उनको खेतों में ही सजा कर अवशेषों को न जलाएँ। फसलों के छिड्काव करें। जिससे कि उनकी edha, Uttar Pradesh, India विद्यार्थी को विभिन्न श्रेणियां में नुकसान होते है। फसलों के को संबोधित करते हुए कहा कि जा सकते हैं। खेल की उसीएंग जाफि को बताएं अवशेषों को जलाने से मृदा, वायु, लागत में कमी आई और साथ ही साथ 8CQQ+GGX, Sedha, Uttar Pradesh 246761, India वातावरण आदि में गंभीर नुकसान होते 10 तरह के पुरस्कार दिए गए। अवशेषों को सुरक्षित बना करके किसान भाई अपने फसलों के वैद्यानिक डा. प्रतिमा गुप्ता ने साथ ही साथ उन्होंने यह भी गुणवत्ता वुक्त उत्पादन हो, साथ कृषि विज्ञान केंद्र नगीना के रखें उससे अन्य तरीके अपना अवशेष जो बचते हैं उनका विद्यार्थियों को संबोधित करते बताया कि येस्ट ठी कंपोजर ैं। फसलों के अवशेषों को सुरक्षित उन्होंने यह भी बताया कि किसान Lat 29.338731° र्णे उससे अन्य शीके अपने करके साथ ही छा. सिंह ने बजाया कि उपपारन के साथ साथ अशिरिक आग किसनों को संधीध्य करते हुए कहा। साधियों वर्तमान में जो भी कसले उनकी अपने खेत की मिस्टी की उन्हींग किसन भाई अपनी खेती में गेंह, की प्राप्ति करे एवं गना की उच्च कि किसन साधियों आप सभी लोग खड़ी हैं। उनका कोट, बोमारियों का ू वैज्ञानिक डॉक्टर के के सिंह ने करके उनको अपने खेत की उपयोग अन्य तरीके अपनाकर हुए कहा कि किसान साधियों किसान भाई अपने खेत पर Long 78.438732° विद्यार्थियों को संबोधित करते मिट्टी की उर्वरा शक्ति को बढ़ाएं सुरक्षित कर सकते हैं, एवं आप सभी लोग खेत में जो भी अपने घर पर लगातार कैसे Google 31/10/23 11:22 AM GMT +05:30 त्रोंक को बदाएं) साथ ही साथ सरसे और समूर को वायेकोटीफाइट उत्यादन करने के की अधिक जनक. खेत्र में जे भी अचलेप बचहे हैं, चाहे निर्वष्ठण वैज्ञानिक संस्तुति के अधर बतायरण को प्रदूषित होने से बचाएं। प्रजातियों को शामिल करके ठच्च। ही दी बीतनिक हा, हिल्वांगी ने बह पराली हो या गने की पती और सही प्रयोग करे। हुए कहा कि किसान साधियों साथ ही साथ यातावरण को आमवनी में युद्धि कर सकते हैं अवशेष बचते हैं, चाहे यह पराली बना सकते है। ....

3) Achievement of TSP (Tribal Sub Plan)

: NA

:

:

NA

NA

- 4) Achievement of KSHAMTA (Knowledge Systems And Home Based Agricultural Management in Tribal Areas) : NA
- 5) Achievements of SCSP KVKs
- 6) Achievement under IFS KVKs
- 7) Activities performed under NARI programme

## Table-7.1: Details of activities performed under NARI programme

| Nutritional Garden   |                                     | Bio-fo            | rtified crops                    | Value addition    |                                  | Training programmes |                                  | Extension activities |                                  |
|----------------------|-------------------------------------|-------------------|----------------------------------|-------------------|----------------------------------|---------------------|----------------------------------|----------------------|----------------------------------|
| No of<br>Established | No. of<br>farmers/<br>beneficiaries | No of<br>activity | No. of farmers/<br>beneficiaries | No of<br>activity | No. of farmers/<br>beneficiaries | No of<br>activity   | No. of farmers/<br>beneficiaries | No of<br>activity    | No. of farmers/<br>beneficiaries |
| 60                   | 60                                  | 6                 | 187                              | 2                 | 10                               | 15                  | 300                              | 20                   | 2500                             |

## Table-7.2: Details of Bio-Fortified Crops used for nutritional security under NARI programme

| Category | Bio Fortified Crop | Variety                        | Area (ha) | No of Beneficiaries |
|----------|--------------------|--------------------------------|-----------|---------------------|
| Cereals  | Wheat              | DBW-187, DBW-303, HD-3298      | 7.0       | 125                 |
| Oilseed  | Mustard            | Pusa Mustard-31, PusaUstard-33 | 11.20     | 37                  |
| Pulses   | Lentil             | Pusa Masoor Ageti              | 10.00     | 25                  |
| Total    |                    |                                | 28.20     | 187                 |

| Activities  | Number of activity | No. of farmers/ beneficiaries |
|---|--------------------|-------------------------------|
| OFTs – Nutritional Garden (activity in no. of Unit)           |                    |                               |
| OFTs – Bio-fortified Crops (activity in no. of Unit)          | 02                 | 20                            |
| OFTs – Value addition (activity in no. of Unit/Enterprise)    | 02                 | 10                            |
| OFTs - Other Enterprises (activity in no. of Unit/Enterprise) |                    |                               |
| FLDs – Nutritional Garden (activity in no. of Unit)           | 02                 | 60                            |
| FLDs – Bio-fortified Crops (activity in no. of Unit)          | 04                 | 167                           |
| FLDs – Value addition (activity in no. of Unit/Enterprise)    | -                  | -                             |
| FLD- Other Enterprises (activity in no. of Unit/Enterprise)   | -                  | -                             |
| Trainings   | 15                 | 300                           |
| Extension Activities  | 20                 | 2500                          |
| Grand Total   | 45                 | 2857                          |

| Sample No. of Sample |  | No. of Samples     | No. of Farmers     | No. of Villages | Amount re | alized (Rs. in lakhs) |       | No. of Soil Health Cards issued |  |
|----------------------|--|--------------------|--------------------|-----------------|-----------|-----------------------|-------|---------------------------------|--|
| Soil                 | Soil   |                    |                    |                 |           |                       |       |                                 |  |
| Total                | otal   |                    |                    |                 |           |                       |       |                                 |  |
|                      |  |                    |                    |                 |           |                       |       |                                 |  |
| 9) A                 | chieve   | ments under NICR   | A Project          |                 |           | : NA                  |       |                                 |  |
| 10) A                | chieve   | ments under ARYA   | Project            |                 |           | :                     | NA    |                                 |  |
| 11) A                | chieve   | ments under Pulses | s Seed Hub program | nme             |           | :                     | NA    |                                 |  |
| 12) A                | 12) Achievements under Swachhata Abhiyan Mission |                    |                    |                 |           |                       |       |                                 |  |
| S.No.                | Items  |                    |                    |                 |           | No. of Progra         | ammes | No. of persons participated     |  |
| 1                    | Toilet   | maintenance        |                    |                 |           |                       |       |                                 |  |
| 2                    | Road, drain cleaning                             |                    |                    |                 |           | 20                    |       | 550                             |  |
| 3                    | Garba  | ge disposal        |                    |                 |           |                       |       |                                 |  |
| 4                    | Door to door awareness                           |                    |                    |                 |           |                       |       |                                 |  |
| 5                    | Awareness campaign                               |                    |                    |                 |           | 35                    |       | 1050                            |  |
| 6                    | Nookk  | ad Drama           |                    |                 |           |                       |       |                                 |  |
| 7                    | School   | Drama              |                    |                 |           |                       |       |                                 |  |
| 8                    | School rally                                     |                    |                    |                 |           |                       |       |                                 |  |
| 9                    | Writin   | g paining slogans  |                    |                 |           | 5                     |       |                                 |  |
| 10                   | Composting                                       |                    |                    |                 |           | 23                    |       | 23                              |  |
| 11                   | Other  |                    |                    |                 |           | 4                     |       |                                 |  |

#### 8) Achievements of Soil, water, plant and manure samples analyzed by KVKs and soil health cards issued

# 13) Achievements under Aspirational District Scheme

: NA

### 14) Awards

| S.No. | Name of Award received                | Name of KVK/farmer                 | Year of Award | Date on which award received |
|-------|---------------------------------------|------------------------------------|---------------|------------------------------|
| 1     | Special Award for Natural Farming (Rs | Sh. Shard Kumar Singh, Prograssive | 2023          | 23.12.2023 by UP Govt.       |
|       | 75000.00)                             | Farmer                             |               |                              |

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