## KRISHI VIGYAN KENDRA, DELHI
### ANNUAL PROGRESS REPORT (January 2019 - December, 2019)

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<td>51-55</td>
</tr>
</tbody>
</table>
APR SUMMARY

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

1. **Training Programmes**

<table>
<thead>
<tr>
<th>Clientele</th>
<th>No. of Courses</th>
<th>Male</th>
<th>Female</th>
<th>Total participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Farmers &amp; farm women</td>
<td>26</td>
<td>348</td>
<td>206</td>
<td>554</td>
</tr>
<tr>
<td>Rural youths</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Extension functionaries</td>
<td>1</td>
<td>-</td>
<td>21</td>
<td>21</td>
</tr>
<tr>
<td>Sponsored Training</td>
<td>11</td>
<td>328</td>
<td>80</td>
<td>378</td>
</tr>
<tr>
<td>Vocational Training</td>
<td>6</td>
<td>102</td>
<td>21</td>
<td>123</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>44</strong></td>
<td><strong>778</strong></td>
<td><strong>298</strong></td>
<td><strong>1076</strong></td>
</tr>
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</table>

2. **Frontline demonstrations**

<table>
<thead>
<tr>
<th>Enterprise</th>
<th>No. of Farmers</th>
<th>Area (ha)</th>
<th>Units/Animals</th>
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<tr>
<td>Oilseeds</td>
<td>116</td>
<td>46.6</td>
<td></td>
</tr>
<tr>
<td>Pulses</td>
<td>109</td>
<td>43.6</td>
<td></td>
</tr>
<tr>
<td>Cereals</td>
<td>17</td>
<td>7.2</td>
<td></td>
</tr>
<tr>
<td>Vegetables</td>
<td>12</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Other crops</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Hybrid crops</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>254</strong></td>
<td><strong>102.4</strong></td>
<td></td>
</tr>
<tr>
<td>Livestock &amp; Fisheries</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Other enterprises</td>
<td>27</td>
<td>3.2</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>27</strong></td>
<td><strong>3.2</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>281</strong></td>
<td><strong>105.6</strong></td>
<td></td>
</tr>
</tbody>
</table>

3. **Technology Assessment**

<table>
<thead>
<tr>
<th>Category</th>
<th>No. of Technology Assessed</th>
<th>No. of Trials</th>
<th>No. of Farmers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technology Assessed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crops</td>
<td>5</td>
<td>23</td>
<td>23</td>
</tr>
<tr>
<td>Various enterprises</td>
<td>1</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>6</strong></td>
<td><strong>25</strong></td>
<td><strong>33</strong></td>
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</table>

4. **Extension Programmes**

<table>
<thead>
<tr>
<th>Category</th>
<th>No. of Programmes</th>
<th>Total Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extension activities</td>
<td>346</td>
<td>7325</td>
</tr>
<tr>
<td>Other extension activities</td>
<td>18</td>
<td>6500</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>355</strong></td>
<td><strong>13287</strong></td>
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</table>
5. Mobile Advisory Services

<table>
<thead>
<tr>
<th>Name of KVK</th>
<th>Message Type</th>
<th>Type of Messages</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Crop</td>
<td>Livestock</td>
</tr>
<tr>
<td>Text only</td>
<td>25</td>
<td>3</td>
</tr>
<tr>
<td>Voice only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voice &amp; Text both</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Messages</td>
<td>25</td>
<td>3</td>
</tr>
<tr>
<td>Total farmers Benefitted</td>
<td>1108</td>
<td>777</td>
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</table>

6. Seed & Planting Material Production

<table>
<thead>
<tr>
<th></th>
<th>Quintal/Number</th>
<th>Value Rs.</th>
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<tbody>
<tr>
<td>Seed (q)</td>
<td>155.49</td>
<td>947282.50</td>
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<tr>
<td>Planting material (No.)</td>
<td>308750</td>
<td>27500</td>
</tr>
<tr>
<td>Bio-Products (kg)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Livestock Production (No.)</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Fishery production (No.)</td>
<td>-</td>
<td>-</td>
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</table>

7. Soil, water & plant Analysis

<table>
<thead>
<tr>
<th>Samples</th>
<th>No. of Beneficiaries</th>
<th>Value Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>Plant</td>
<td>58</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>138</td>
<td></td>
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8. HRD and Publications

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<tr>
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<td>Workshops</td>
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<tr>
<td>2</td>
<td>Conferences</td>
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</tr>
<tr>
<td>3</td>
<td>Meetings</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>Trainings for KVK officials</td>
<td>8</td>
</tr>
<tr>
<td>5</td>
<td>Visits of KVK officials</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>Book published</td>
<td>-</td>
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<tr>
<td>7</td>
<td>Training Manual</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>Book chapters</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>Research papers</td>
<td>1</td>
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<td>10</td>
<td>Lead papers</td>
<td>1</td>
</tr>
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<td>11</td>
<td>Seminar papers</td>
<td>1</td>
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<tr>
<td>12</td>
<td>Extension folder</td>
<td>4</td>
</tr>
<tr>
<td>13</td>
<td>Proceedings</td>
<td>1</td>
</tr>
<tr>
<td>14</td>
<td>Award &amp; recognition</td>
<td>4</td>
</tr>
<tr>
<td>15</td>
<td>On going research projects</td>
<td>6</td>
</tr>
</tbody>
</table>
4

DETAIL REPORT OF APR-2019

1. GENERAL INFORMATION ABOUT THE KVK

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

<table>
<thead>
<tr>
<th>Address</th>
<th>Telephone</th>
<th>E mail</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>Krishi Vigyan Kendra, Village &amp; Post -Ujwa, Nazafgarh, New Delhi – 110073</td>
<td>9667971155</td>
<td><a href="mailto:kvkujwa@yahoo.com">kvkujwa@yahoo.com</a></td>
<td><a href="http://www.kvkdelhi.org">www.kvkdelhi.org</a></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Address</th>
<th>Telephone</th>
<th>E mail</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Horticultural Research &amp; Development Foundation (NHRDF), 47, Pankha Road Institutional Area, Janakpuri, New Delhi, Pin: 110058</td>
<td>011-28522211, 28524150</td>
<td><a href="mailto:delhi@nhrdf.com">delhi@nhrdf.com</a></td>
<td><a href="http://www.nhrdf.com">www.nhrdf.com</a></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Telephone</th>
<th>Contact</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr P. K. Gupta</td>
<td>011-28522211</td>
<td>888867619</td>
<td><a href="mailto:headkvkujwa@gmail.com">headkvkujwa@gmail.com</a></td>
</tr>
</tbody>
</table>

1.4. Year of sanction: 1995

1.5. Staff Position (as on 31st December, 2019)

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Sanctioned post</th>
<th>Name of the incumbent</th>
<th>Designation</th>
<th>Discipline</th>
<th>Pay Scale (Rs.) Grade Pay</th>
<th>Present basic (Rs.)</th>
<th>Date of joining</th>
<th>Permanent</th>
<th>Temporary</th>
<th>Term</th>
<th>OBC</th>
<th>SC/ST/Other C</th>
<th>Email id</th>
<th>Photo</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Programme Coordinator</td>
<td>Dr. P. K. Gupta</td>
<td>Sr. Scientist &amp; Head</td>
<td>Horticvulture</td>
<td>37400-67000</td>
<td>9000</td>
<td>38800+9000</td>
<td>28/2/17</td>
<td>Temp.</td>
<td>Gen</td>
<td>8888667619 <a href="mailto:kvkujwa@yahoo.com">kvkujwa@yahoo.com</a></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Subject Matter Specialist</td>
<td>Ritu Singh</td>
<td>SMS</td>
<td>Home Science</td>
<td>15600-39100</td>
<td>5400</td>
<td>25480+5400</td>
<td>10.02.05</td>
<td>-do-</td>
<td>Gen</td>
<td>9818550652</td>
<td>-do-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Subject Matter Specialist</td>
<td>Rakesh Kumar</td>
<td>SMS</td>
<td>Horticulture</td>
<td>15600-39100</td>
<td>5400</td>
<td>25480+5400</td>
<td>22.09.05</td>
<td>-do-</td>
<td>Gen</td>
<td>9313047633</td>
<td>-do-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Subject Matter Specialist</td>
<td>Dr. D. K. Rana</td>
<td>SMS</td>
<td>Plant Pathology</td>
<td>15600-39100</td>
<td>5400</td>
<td>21220+5400</td>
<td>5.05.10</td>
<td>-do-</td>
<td>Gen</td>
<td>9310904705</td>
<td>-do-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Subject Matter Specialist</td>
<td>Dr. Samad Pal Singh</td>
<td>SMS</td>
<td>Agronomy</td>
<td>15600-39100</td>
<td>5400</td>
<td>15600+5400</td>
<td>25.05.18</td>
<td>-do-</td>
<td>Gen</td>
<td>8650399054</td>
<td>-do-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Subject Matter Specialist</td>
<td>Sh Kailash</td>
<td>SMS</td>
<td>Agriculture Extension</td>
<td>15600-39100</td>
<td>5400</td>
<td>15600+5400</td>
<td>27.06.18</td>
<td>-do-</td>
<td>Gen 9413060922</td>
<td>-do-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Subject Matter Specialist</td>
<td>Dr Arpita Sharma</td>
<td>SMS</td>
<td>Agro-Metrology</td>
<td>15600-39100</td>
<td>5400</td>
<td>15600+5400</td>
<td>1.03.19</td>
<td>-do-</td>
<td>Gen 9070601618</td>
<td>-do-</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Subject Matter Specialist</td>
<td>Vacant</td>
<td>SMS</td>
<td>Animal Husbandry</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| 9 | Accountant / Superintendent | V. K. Dixit | OSCA | Administration and accounts | 9200-34800 | 4200 | 20160+4200 | 21.10.05 | -do- | Gen 9911395569 | -do- |
| 10 | Computer Programmer | Manju | PA | Computer Science | 9300-34800 | 4200 | 13980+4200 | 2.05.08 | -do- | Gen 9718666917 | -do- |
| 11 | Programme Assistant | Brijesh Yadav | PA | Soil Science | 9300-34800 | 4200 | 11010+4200 | 17.02.14 | -do- | Gen 7065787046 | -do- |
| 12 | Farm Manager | Ram Sagar | Farm Manager | Agriculture | 9300-34800 | 4200 | 9300+4200 | 1.03.2019 | -do- | - | 8953751501 | -do- |
| 13 | Agromet Observer | Vishal | Agromet Observer | Agromet Observer | 5200-20200 | - | 5200+2000 | 1.3.2019 | -do- | Gen 9466803902 | -do- |
| 14 | Stenographer | Atma Ram | Store Keeper | Administration | 5200-20200 | - | 9590+1900 | 10.02.05 | -do- | Gen 9013553955 | -do- |
| 15 | Driver | Rajesh Kumar | Driver | Jeep Driver | 5200-20200 | - | 9580+1900 | 02.02.05 | -do- | Gen 9899426775 | -do- |
| 16 | Driver | Krishan | Driver | Tractor Driver | 5200-20200 | - | 9540+1900 | 02.05.08 | -do- | Gen 8506920345 | -do- |
| 17 | Supporting staff | Ramesh Chander | Attendant | Administration | 4440-7440 | 1800 | 7680+1800 | 10.02.05 | -do- | Gen 9560290407 | -do- |
| 18 | Supporting staff | Sachin Kumar | Attendant | Administration | 4440-7440 | 1800 | 5200+1800 | 18.05.18 | -do- | Gen 9012564616 | -do- |
1.6. Total land with KVK (in ha) : 16.0

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Item</th>
<th>Area (ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Buildings</td>
<td>0.7</td>
</tr>
<tr>
<td>2</td>
<td><strong>Demonstration Units</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mushroom unit -250 m²</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>Vermicompost unit -500 m²</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Azolla unit- 15 m²</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Insect proof net house-50 m²</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Apiculture-10 box</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kinnow with Drip Irrigation &amp; Aonla orchard-1.4ha</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Water harvesting -200 m²</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Crops (Seed Production)</td>
<td>9.8</td>
</tr>
<tr>
<td>4</td>
<td>Kitchen Garden</td>
<td>0.2</td>
</tr>
<tr>
<td>5</td>
<td>Others if any</td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. Forestry</td>
<td>1.78</td>
</tr>
<tr>
<td></td>
<td>b. Onion Storage</td>
<td>1.35</td>
</tr>
</tbody>
</table>

1.7. **Infrastructural Development:**

**A) Buildings**

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of building</th>
<th>Source of funding</th>
<th>Complete Year</th>
<th>Plinth area (Sq.m)</th>
<th>Expenditure (Rs.)</th>
<th>Starting year</th>
<th>Incomplete Plinth area (Sq.m)</th>
<th>Status of construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Administrative Building</td>
<td>ICAR</td>
<td>17.2.2011</td>
<td>548.3m²</td>
<td>54,38,664/-</td>
<td>NA</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>Farmers Hostel</td>
<td>NIL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Staff Quarters</td>
<td>NIL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Demonstration Units</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mushroom unit</td>
<td>State Govt.</td>
<td>1998</td>
<td>250 m²</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vermicompost unit</td>
<td>ICAR</td>
<td>2019</td>
<td>500 m²</td>
<td>200000/-</td>
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</tr>
<tr>
<td></td>
<td>Azolla unit</td>
<td>ICAR</td>
<td>2018</td>
<td>15m²</td>
<td>25000/-</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Insect proof net</td>
<td>NHRDF</td>
<td>2018</td>
<td>50 m²</td>
<td>125000/-</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>house</td>
<td>ICAR</td>
<td>2017</td>
<td>10 box</td>
<td>100000/-</td>
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<tr>
<td></td>
<td>Apiculture</td>
<td>ICAR</td>
<td>2019</td>
<td>14000m²</td>
<td>250000/-</td>
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<tr>
<td></td>
<td>Kinnow &amp; Aonla</td>
<td>NHRDF</td>
<td>2019</td>
<td>200</td>
<td>150000/-</td>
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<tr>
<td></td>
<td>orchard</td>
<td>ICAR</td>
<td>2019</td>
<td>8000m²</td>
<td>360000/-</td>
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<tr>
<td>5</td>
<td>Fencing</td>
<td>NIL</td>
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<td></td>
<td></td>
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<td>6</td>
<td>Threshing floor</td>
<td>ICAR</td>
<td>2011</td>
<td>222.3m²</td>
<td>1,92,031/-</td>
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<td></td>
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<tr>
<td>7</td>
<td>Farm Go down</td>
<td>ICAR</td>
<td>2011</td>
<td>35m²</td>
<td>1,99,869/-</td>
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<td></td>
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</tr>
<tr>
<td></td>
<td>Other</td>
<td>NIL</td>
<td></td>
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</table>
### B) Vehicles

<table>
<thead>
<tr>
<th>Type of vehicle</th>
<th>Year of purchase</th>
<th>Cost (Rs.)</th>
<th>Total kms Run</th>
<th>Present status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scooter</td>
<td>1995</td>
<td>21818</td>
<td>-----</td>
<td>Not working</td>
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<tr>
<td>Motorcycle</td>
<td>2000</td>
<td>47063</td>
<td>51784</td>
<td>Not working</td>
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<tr>
<td>Jeep</td>
<td>2017</td>
<td>800000</td>
<td>45149</td>
<td>Working</td>
</tr>
<tr>
<td>Tractor</td>
<td>2017</td>
<td>700000</td>
<td>870.7*</td>
<td>Working</td>
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</table>

*In hours

### C) Equipment & AV aids

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Name of the equipment</th>
<th>Number of Equipment</th>
<th>Year of purchase</th>
<th>Cost (Rs.)</th>
<th>Present status</th>
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<tbody>
<tr>
<td>1</td>
<td>Seed drill</td>
<td>1</td>
<td>1997</td>
<td>6150</td>
<td>Good</td>
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<tr>
<td>2</td>
<td>Cultivator</td>
<td>1</td>
<td>1997</td>
<td>1672</td>
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<tr>
<td>3</td>
<td>Tractor trolley</td>
<td>1</td>
<td>1998</td>
<td>11000</td>
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<tr>
<td>4</td>
<td>Harrow</td>
<td>1</td>
<td>1999</td>
<td>8600</td>
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<td>5</td>
<td>Juicer Mixer Grinder</td>
<td>1</td>
<td>2009</td>
<td>2050</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Scanner</td>
<td>1</td>
<td>2010</td>
<td>4148</td>
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<tr>
<td>7</td>
<td>Speaker</td>
<td>1</td>
<td>2010</td>
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<td>8</td>
<td>Computer</td>
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<td>2010</td>
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<td>9</td>
<td>Computer</td>
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<td>2011</td>
<td>24210</td>
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<td>10</td>
<td>Refrigerator</td>
<td>1</td>
<td>2011</td>
<td>11200</td>
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<td>11</td>
<td>Photocopier machine</td>
<td>2</td>
<td>2011</td>
<td>35000</td>
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<td>12</td>
<td>Laptop</td>
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<td>2011</td>
<td>36170</td>
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<td>13</td>
<td>Generator</td>
<td>1</td>
<td>2011</td>
<td>59000</td>
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<td>14</td>
<td>Room cooler</td>
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<td>2012</td>
<td>20402</td>
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<td>15</td>
<td>Small autoclave</td>
<td>1</td>
<td>2012</td>
<td>67280</td>
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<td>16</td>
<td>Hot air oven</td>
<td>1</td>
<td>2012</td>
<td>45016</td>
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<td>17</td>
<td>Laminar flow</td>
<td>1</td>
<td>2012</td>
<td>78874</td>
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<td>18</td>
<td>Colony counter</td>
<td>1</td>
<td>2012</td>
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<td>19</td>
<td>B.O.D. incubator</td>
<td>1</td>
<td>2012</td>
<td>107730</td>
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<td>20</td>
<td>Microscope</td>
<td>1</td>
<td>2012</td>
<td>37822</td>
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<td>21</td>
<td>Refrigerator</td>
<td>1</td>
<td>2012</td>
<td>32600</td>
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<td>22</td>
<td>Electric balance</td>
<td>1</td>
<td>2012</td>
<td>42750</td>
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<td>23</td>
<td>Water distillation</td>
<td>1</td>
<td>2012</td>
<td>25650</td>
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<td>24</td>
<td>pH meter</td>
<td>1</td>
<td>2012</td>
<td>19687</td>
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<td>25</td>
<td>EC meter</td>
<td>1</td>
<td>2012</td>
<td>21038</td>
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<td>26</td>
<td>Spectrophotometer</td>
<td>1</td>
<td>2012</td>
<td>39150</td>
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<td>27</td>
<td>Flame photometer</td>
<td>1</td>
<td>2012</td>
<td>60750</td>
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<td>28</td>
<td>Computer</td>
<td>1</td>
<td>2012</td>
<td>34000</td>
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<tr>
<td></td>
<td>Description</td>
<td>Quantity</td>
<td>Year</td>
<td>Price</td>
<td></td>
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<tr>
<td>---</td>
<td>-----------------------------------------------------</td>
<td>----------</td>
<td>------</td>
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<td>29.</td>
<td>Air conditioner</td>
<td>1</td>
<td>2012</td>
<td>33975</td>
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<tr>
<td>30.</td>
<td>Laptop</td>
<td>1</td>
<td>2012</td>
<td>37000</td>
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<td>31.</td>
<td>Sprit lamp</td>
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<td>2012</td>
<td>157</td>
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<td>32.</td>
<td>Stabilizer</td>
<td>1</td>
<td>2012</td>
<td>2000</td>
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<td>33.</td>
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<td>2012</td>
<td>473</td>
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<td>34.</td>
<td>Tally ERP 9 software</td>
<td>1</td>
<td>2014</td>
<td>16400</td>
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<td>35.</td>
<td>Reverse Osmosis (RO)</td>
<td>1</td>
<td>2014</td>
<td>15500</td>
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<td>36.</td>
<td>Finger print attendance machine</td>
<td>1</td>
<td>2014</td>
<td>11250</td>
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<td>37.</td>
<td>Heat convector</td>
<td>3</td>
<td>2014</td>
<td>1800</td>
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<td>38.</td>
<td>Mrida parikshak soil testing Mini Lab</td>
<td>1</td>
<td>2015</td>
<td>75000</td>
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<tr>
<td>39.</td>
<td>Trolley</td>
<td>3</td>
<td>2016</td>
<td>158832</td>
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<tr>
<td>40.</td>
<td>Plastic palates</td>
<td>8</td>
<td>2016</td>
<td>29560</td>
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<td>41.</td>
<td>Water cooler with RO</td>
<td>3</td>
<td>2016</td>
<td>42550</td>
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<tr>
<td>42.</td>
<td>Inverter set</td>
<td>2</td>
<td>2016</td>
<td>24700</td>
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<td>43.</td>
<td>Planker (wood pata with chain)</td>
<td>2</td>
<td>2016</td>
<td>8947</td>
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<td>44.</td>
<td>Mrida parikshak soil testing Mini Lab</td>
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<td>2017</td>
<td>90300</td>
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<td>45.</td>
<td>Printer</td>
<td>5</td>
<td>2017</td>
<td>15044</td>
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<td>46.</td>
<td>Harrow</td>
<td>3</td>
<td>2017</td>
<td>57000</td>
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<td>47.</td>
<td>Leveler</td>
<td>2</td>
<td>2017</td>
<td>13000</td>
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<td>48.</td>
<td>Lecture stand</td>
<td>2</td>
<td>2017</td>
<td>8000</td>
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<td>49.</td>
<td>Cultivator</td>
<td>3</td>
<td>2017</td>
<td>23800</td>
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<tr>
<td>50.</td>
<td>Printer</td>
<td>5/</td>
<td>2017</td>
<td>15044</td>
<td></td>
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<td>51.</td>
<td>Head phone</td>
<td>1</td>
<td>2017</td>
<td>400</td>
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<tr>
<td>52.</td>
<td>Gramin GPS 72 H</td>
<td>1</td>
<td>2017</td>
<td>9984</td>
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<tr>
<td>53.</td>
<td>Mulcher single speed</td>
<td>2</td>
<td>2018</td>
<td>336000</td>
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<tr>
<td>54.</td>
<td>Shrub master</td>
<td>2</td>
<td>2018</td>
<td>103040</td>
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<tr>
<td>55.</td>
<td>Hydraulic reversible 2MB plough</td>
<td>1</td>
<td>2018</td>
<td>135615</td>
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<td>56.</td>
<td>Wireless walkie phone</td>
<td>1</td>
<td>2018</td>
<td>1750</td>
<td></td>
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<tr>
<td>57.</td>
<td>Happy seeder 10 row</td>
<td>2</td>
<td>2018</td>
<td>332640</td>
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<tr>
<td>58.</td>
<td>TATA sky DTH connection</td>
<td>1</td>
<td>2018</td>
<td>2530</td>
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<tr>
<td>59.</td>
<td>Airtel 4G home Wi-Fi router</td>
<td>1</td>
<td>2018</td>
<td>2500</td>
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<td>60.</td>
<td>Fire extinguisher</td>
<td>3</td>
<td>2018</td>
<td>6372</td>
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<td>61.</td>
<td>Desert cooler</td>
<td>6</td>
<td>2019</td>
<td>10000</td>
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<td>62.</td>
<td>Zero seed cum fertilizer drill</td>
<td>4</td>
<td>2019</td>
<td>57000</td>
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<td>63.</td>
<td>Computer</td>
<td>4</td>
<td>2019</td>
<td>107100</td>
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<td>64.</td>
<td>UPS</td>
<td>5</td>
<td>2019</td>
<td>4300</td>
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### 1.8. A) Details SAC meeting conducted in the year

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Date</th>
<th>Name and Designation of Participants</th>
<th>Salient Recommendations</th>
<th>Action taken</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>23.09.2019</td>
<td>1. Dr. S.K. Singh, Director, ICAR-ATARI, Jodhpur</td>
<td>1. It was advised that the district demographic should be presented in the slide.</td>
<td>Noted for compliance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Sh. Satish Gupta, SDM, Nazafgarh</td>
<td>2. Under skill trainings impact should be included.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Sh. A.P. Saini, Joint Director (Agri.) Office of the Joint Director (Agri.) Govt. of NCT Delhi</td>
<td>3. Each on Farm Trial (OFT) should include problem cause diagram.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Dr. Anamika Sharma Programme Coordinator, KVK, Shikohpur, Gurgaon</td>
<td>4. Each OFT/FLD display board should be in hindi.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. Programme Executive AIR, New Delhi</td>
<td>5. Being horticulture-based host organization more number of front-line demonstrations should be conducted on vegetable crops.</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>6. Smt. Snehlata, Progressive farm woman, Village Mundka, Delhi</td>
<td>6. Follow up and impact study of every training/OFT/FLD should be followed by each SMS.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>7. Sh. Marcal Tirkey, Programme Executive, Doordarshan Kisaan, New Delhi</td>
<td>7. While presenting the results of OFT in crops, NPK status and recommendation should be included.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>8. Sh. Vishal Anand, Manager, NABARD, New Delhi.</td>
<td>8. Under FLD programme on wheat, the recent variety HD-3226 should be promoted in the area.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>9. Dr. Rahul M. Panwar Veterinary Officer, Govt. of NCT Delhi</td>
<td>9. In horticulture drip irrigation should be promoted in the KVK district.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>10. Sh. Ram Kumar, Progressive Farmer, village Galibpur</td>
<td>10. KVK should identify goat rearing groups in the area and promote this venture for higher income and profitability.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>13. Dr. P.K. Gupta, Head, KVK Ujwa</td>
<td>13. If possible KVK</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>14. Dr. Ritu Singh, SMS (HS), KVK, Ujwa</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>15. Sh. Rakesh Kumar, SMS (Hort.)</td>
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<tr>
<td></td>
<td></td>
<td>16. KVK, Ujwa, Delhi</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>17. Dr. D.K. Rana, SMS(PP), KVK, Ujwa</td>
<td></td>
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<td>18. Sh. Samarpal Singh, SMS (Agro), KVK, Ujwa</td>
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<td>19. Sh. Kailash Jakhar, SMS (Ext.), KVK, Ujwa</td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td>20. Sh. Ram Kumar, Progressive farmer, village Ghalibpur, New Delhi</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>21. Sh. Brijesh Yadav, PA (SS), KVK, Ujwa</td>
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<td></td>
<td>22. Sh. Ram Sagar, Farm Manger, KVK, Delhi</td>
<td></td>
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</tbody>
</table>
should promote fish farming in the area.

14. It was advised that varietal evaluation should be removed from FLD thematic area.

---

2. DETAILS OF DISTRICT

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

<table>
<thead>
<tr>
<th>S. No</th>
<th>Farming system/enterprise</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Agri-Dairy system (with rice in kharif and wheat in rabi as major crops)</td>
</tr>
<tr>
<td>2</td>
<td>Agri- Dairy system (Mustard as major oilseed crop and Jowar/Bajra as fodder crop)</td>
</tr>
<tr>
<td>3</td>
<td>Agri- Horticulture (Floriculture) system</td>
</tr>
<tr>
<td>4</td>
<td>Agri- Vegetables-Dairy system</td>
</tr>
</tbody>
</table>

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

a) Soil type

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Trans- Gangatic Plains region (Zone VI)</th>
<th>Characteristics</th>
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<tbody>
<tr>
<td></td>
<td>Semi-Arid, low rainfall, variation in temperature (2 - 47°C), frost occur once or twice in the year.</td>
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</table>

b) Topography

<table>
<thead>
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<th>S. No.</th>
<th>Climate</th>
<th>Characteristics</th>
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<tbody>
<tr>
<td>1</td>
<td>The state has three seasons viz., winter (Nov-Mar), summer (Apr-June) &amp; Rainy season (July-Oct). The rainfall occurs during the month of July-Sept with occasional showers during Dec- Jan. The range of rainfall between 420-780 mm.</td>
<td></td>
</tr>
</tbody>
</table>

2.3 Soil Types

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Sandy loam/ Sandy clay loam</th>
<th>Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Light to medium in texture, low water holding capacity, pH slightly saline with low organic matter content. Wide range of crops can be grown but constraint is saline water for irrigation</td>
<td>43036</td>
</tr>
</tbody>
</table>

2.4. Area, Production and Productivity of major crops cultivated in NCT, Delhi

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Crop</th>
<th>Area (ha)</th>
<th>Production (MT)</th>
<th>Productivity (Q/ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Paddy</td>
<td>5854</td>
<td>25256</td>
<td>43.14</td>
</tr>
<tr>
<td>2</td>
<td>Wheat</td>
<td>19350</td>
<td>83419</td>
<td>43.11</td>
</tr>
<tr>
<td>3</td>
<td>Barley</td>
<td>62</td>
<td>181</td>
<td>29.19</td>
</tr>
<tr>
<td>4</td>
<td>Bajra</td>
<td>1482</td>
<td>3256</td>
<td>21.97</td>
</tr>
<tr>
<td>5</td>
<td>Maize</td>
<td>34</td>
<td>174</td>
<td>51.18</td>
</tr>
<tr>
<td>6</td>
<td>Jowar</td>
<td>3161</td>
<td>3035</td>
<td>9.60</td>
</tr>
<tr>
<td>7</td>
<td>Gram</td>
<td>60</td>
<td>120</td>
<td>20.00</td>
</tr>
<tr>
<td>9</td>
<td>Mustard</td>
<td>3593</td>
<td>4527</td>
<td>12.60</td>
</tr>
<tr>
<td>11</td>
<td>Vegetable</td>
<td>23043</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Flowers</td>
<td>5995</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: 2017-18 State Agriculture Department, NCT Delhi.

2.5. Weather data (2019)
<table>
<thead>
<tr>
<th>Month</th>
<th>Rainfall (mm)</th>
<th>Temperature °C</th>
<th>Maximum</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>January, 2019</td>
<td>16</td>
<td></td>
<td>21.1</td>
<td>6.8</td>
</tr>
<tr>
<td>February, 2019</td>
<td>30</td>
<td></td>
<td>22.68</td>
<td>10.52</td>
</tr>
<tr>
<td>March, 2019</td>
<td>0</td>
<td></td>
<td>28.35</td>
<td>13.27</td>
</tr>
<tr>
<td>April, 2019</td>
<td>24</td>
<td></td>
<td>37.32</td>
<td>23.19</td>
</tr>
<tr>
<td>May, 2019</td>
<td>23</td>
<td></td>
<td>39.8</td>
<td>23.8</td>
</tr>
<tr>
<td>June, 2019</td>
<td>0</td>
<td></td>
<td>40.9</td>
<td>29.1</td>
</tr>
<tr>
<td>July, 2019</td>
<td>224</td>
<td></td>
<td>36.3</td>
<td>26.2</td>
</tr>
<tr>
<td>August, 2019</td>
<td>134</td>
<td></td>
<td>34.1</td>
<td>25.8</td>
</tr>
<tr>
<td>September, 2019</td>
<td>23.5</td>
<td></td>
<td>34.4</td>
<td>25.6</td>
</tr>
<tr>
<td>October, 2019</td>
<td>15</td>
<td></td>
<td>32.6</td>
<td>19.8</td>
</tr>
<tr>
<td>November, 2019</td>
<td>14.5</td>
<td></td>
<td>27.7</td>
<td>15.2</td>
</tr>
<tr>
<td>December, 2019</td>
<td>39</td>
<td></td>
<td>18.5</td>
<td>7.7</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>543</strong></td>
<td></td>
<td><strong>31.14</strong></td>
<td><strong>18.91</strong></td>
</tr>
</tbody>
</table>

2.6. Production and productivity of livestock, poultry, fisheries etc. in the state

<table>
<thead>
<tr>
<th>Category</th>
<th>Population</th>
<th>Production</th>
<th>Productivity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cattle</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crossbred</td>
<td>47935</td>
<td>606232 L Milk</td>
<td>12.65 L / Animal/ Day</td>
</tr>
<tr>
<td>Indigenous</td>
<td>24498</td>
<td>97683 L Milk</td>
<td>3.98 L / Animal/ Day</td>
</tr>
<tr>
<td>Buffalo</td>
<td>162142</td>
<td>1286925 L Milk</td>
<td>7.94 L / Animal/ Day</td>
</tr>
<tr>
<td>Sheep</td>
<td>932</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crossbred</td>
<td>654</td>
<td>9425 Kg/ Meat</td>
<td>14.4 Kg/ Animal</td>
</tr>
<tr>
<td>Indigenous</td>
<td>278</td>
<td>3529 Kg/ Meat</td>
<td>12.6 Kg/ Animal</td>
</tr>
<tr>
<td>Goats</td>
<td>30470</td>
<td>262042 Kg/ Meat</td>
<td>8.6 Kg/ Animal</td>
</tr>
<tr>
<td>Pigs</td>
<td>76346</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crossbred</td>
<td>8581</td>
<td>Data not Available</td>
<td>Data not Available</td>
</tr>
<tr>
<td>Indigenous</td>
<td>67765</td>
<td>Data not Available</td>
<td>Data not Available</td>
</tr>
<tr>
<td>Rabbits</td>
<td>6706</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poultry</td>
<td>44000</td>
<td>58225 Kg/ Meat</td>
<td>1.33 Kg/ Bird</td>
</tr>
<tr>
<td>Hens</td>
<td>32202</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Desi</td>
<td>20530</td>
<td>Data not Available</td>
<td>Data not Available</td>
</tr>
<tr>
<td>Improved</td>
<td>2667</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ducks</td>
<td>2140</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turkey and others</td>
<td>1329</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Category</th>
<th>Area</th>
<th>Production</th>
<th>Productivity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fish</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inland</td>
<td>4000 Ha</td>
<td>70010 ton/year</td>
<td>0.178 ton/ha/year</td>
</tr>
<tr>
<td>Prawn</td>
<td></td>
<td>Data not Available</td>
<td></td>
</tr>
<tr>
<td>Scampi</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shrimp</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Source: Govt. of NCT Delhi 2017-18*
## 2.7 Details of Operational area / Villages (2019)

<table>
<thead>
<tr>
<th>Taluka</th>
<th>Name of the block</th>
<th>Name of the village</th>
<th>Major crops &amp; enterprises</th>
<th>Major problem identified</th>
<th>Identified Thrust Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Najafgarh</td>
<td>Najafgarh,</td>
<td>Ghumenhera Shikapur,</td>
<td><strong>Rabi</strong> - Onion, Cauliflower, Spinach, Wheat, Mustard</td>
<td>• Saline water and imbalance use of fertilizer.</td>
<td>• Micro-irrigation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Kanganheri</td>
<td><strong>Kharif</strong> - Tomato, Cucurbits, Okra &amp; , Brinjal, Paddy</td>
<td>• Problem of diseases and pest vegetables &amp; cereals.</td>
<td>• Promotion of salt tolerant varieties</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Summer</strong> - Okra, Tomato, Brinjal, Cucurbits,</td>
<td>• Problem of endo-parasite and ecto-parasite in animals.</td>
<td>• Integrated Nutrient Management in crops.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Enterprises:</strong> Dairy, Mushroom Production, Apiculture, Value addition to fruit &amp; vegetable produce</td>
<td>• Post-harvest losses in fruits and vegetables crops.</td>
<td>• Integrated weed management.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Wide spread nutrient deficiency among rural youths &amp; rural women.</td>
<td>• Resource conservation practices</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Non availability of healthy vegetable nursery.</td>
<td>• IDM &amp; IPM approaches.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Traditional sowing &amp; field preparation techniques.</td>
<td>• Value addition of locally grown crops.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Problem of repeat breeding and low productivity in milk animals.</td>
<td>• Nutritional awareness among masses.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Intensive tillage practices in rice -wheat system &amp; lower cropping intensity</td>
<td>• Vegetables/Nursery raising under protected condition.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Popularization of improved varieties of wheat, mustard &amp; vegetables.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Promotion of organic farming</td>
</tr>
<tr>
<td>Narela</td>
<td>Alipur</td>
<td>Tigipur, Sungerpur &amp; Dariyapur</td>
<td><strong>Rabi</strong> - Cauliflower, Spinach, Radish, Onion, Pea, Marigold, Wheat, Mustard</td>
<td>• Weed infestation in vegetables, rice &amp; wheat</td>
<td>• Formation of farmers producer’s organization (FPO).</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Kharif</strong> - Tomato, Cucurbits, Okra &amp; , Brinjal, Marigold, Radish &amp; Spinach, Paddy</td>
<td>• Post-harvest losses in vegetables cucurbits, tomato &amp; okra</td>
<td>• Integrated weed management.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Summer</strong> - Okra, Tomato, Brinjal, Cucurbits, Radish</td>
<td>• Nutritional deficiency &amp; disorders in vegetable/ mustard</td>
<td>• Resource conservation practices</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Enterprises:</strong> Poultry, Dairy, Mushroom, Vegetables Floriculture and Nursery Production.</td>
<td>• Disintegration of small farmers in agriculture</td>
<td>• Production of low volume &amp; high-volume crops.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Problem disease &amp; insect</td>
<td>• Integrated Nutrient Management.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Practices of inferior variety of crops/vegetables/ flowers</td>
<td>• Crop diversification.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Intensive tillage practices in rice -wheat system &amp; lower cropping intensity</td>
<td>• Integrated pest management.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Low productivity in dairy animals.</td>
<td>• Off season vegetable.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Problem of ectoparasites in animals.</td>
<td>• Integrated crop management.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Poor poultry management.</td>
<td>• Exotic vegetables.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Lack of awareness off season vegetable cultivation</td>
<td>• Post-harvest management of vegetable crops.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Soil test-based fertilizer recommend-ation (STFR).</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Organic farming</td>
</tr>
</tbody>
</table>

### 2.8 Priority/thrust areas

<table>
<thead>
<tr>
<th>Crop/Enterprise</th>
<th>Thrust area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheat &amp; Mustard</td>
<td>Crop Management, Soil moisture conservation, weed management.</td>
</tr>
<tr>
<td>Paddy</td>
<td>Weed management, integrated pest management, nutrient management, soil fertility management</td>
</tr>
</tbody>
</table>
3. TECHNICAL ACHIEVEMENTS

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

<table>
<thead>
<tr>
<th>OFT (Technology Assessment)</th>
<th>FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targets</td>
<td>Achievement</td>
</tr>
<tr>
<td>8</td>
<td>7</td>
</tr>
<tr>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Onion=2</td>
<td>5</td>
</tr>
</tbody>
</table>

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)

<table>
<thead>
<tr>
<th>Clientele</th>
<th>Number of Courses</th>
<th>Number of Participants</th>
<th>Number of activities</th>
<th>Number of participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Farmers</td>
<td>30</td>
<td>700</td>
<td>26</td>
<td>608</td>
</tr>
<tr>
<td>Rural youth</td>
<td>6</td>
<td>120</td>
<td>6</td>
<td>122</td>
</tr>
<tr>
<td>Extn. Functionaries</td>
<td>5</td>
<td>100</td>
<td>1</td>
<td>21</td>
</tr>
</tbody>
</table>

Seed Production (q)

<table>
<thead>
<tr>
<th>Target</th>
<th>Achievement</th>
<th>Distributed to no. of farmers</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>155.49</td>
<td>1580</td>
</tr>
</tbody>
</table>

Planting material (Nos.)

<table>
<thead>
<tr>
<th>Target</th>
<th>Achievement</th>
<th>Distributed to no. of farmers</th>
</tr>
</thead>
<tbody>
<tr>
<td>300000</td>
<td>308750</td>
<td>105</td>
</tr>
</tbody>
</table>

Women in agriculture Women empowerment through strengthening of SHG’s, Health and nutrition awareness, preservation & processing of fruits & vegetables.

Agri-based enterprise Entrepreneurship development in agriculture (value addition, dairy, nursery raising of vegetable crops, mushroom cultivation, vermi-compost & bee keeping) & market linkage.
## I.A TECHNOLOGY ASSESSMENT

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

<table>
<thead>
<tr>
<th>Thematic areas</th>
<th>Crop</th>
<th>Name of the technology assessed</th>
<th>No. of trials</th>
<th>No. of farmers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrated Nutrient Management</td>
<td>Mustard</td>
<td>Foliar application of Boron</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Onion</td>
<td>Nutrient management in <em>Rabi</em> onion</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Varietal Evaluation</td>
<td>Wheat</td>
<td>Integrated Nutrient Management in wheat</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Cauliflower</td>
<td>Nutrient management in cauliflower.</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Integrated Pest Management</td>
<td>Okra</td>
<td>Shoot and fruit borer management technique in okra.</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Integrated Crop Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Integrated Disease Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small Scale Income Generation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enterprises</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weed Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resource Conservation Technology</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Farm Machineries</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Integrated Farming System</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seed / Plant production</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Post Harvest Technology / Value</td>
<td>Ber, Aonla &amp;</td>
<td>Assessment of the acceptability of the ladoo</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>addition</td>
<td>Beetroot</td>
<td>prepared from Beetroot, Ber &amp; Aonla</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drudgery Reduction</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage Technique</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others (Pl. specify)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>25</strong></td>
<td><strong>33</strong></td>
</tr>
</tbody>
</table>

**Note:** Suppose IPM in paddy is the technology assessed by 50 KVKs in the Zone with 5 trials by each KVK, then IPM in paddy needs to be considered as a single technology, with $50 \times 5 = 250$ trials and No. of KVKs will be 50. Shoot and fruit borer management technique in okra. In addition, please note that even if IPM in paddy is done with various combinations of Technology Options (treatments), it may be considered as a single technology only.
I.B. TECHNOLOGY ASSESSMENT IN DETAIL

(From each state please include the full details of three OFTs on technology assessment under the broad thematic areas such as Integrated Crop Management, weed management, pest and disease management, nutrient management, resource conservation, livestock enterprises, Integrated Nutrient Management)

(The model for preparing the same is furnished below)

INTEGRATED PEST MANAGEMENT

Problem definition: Shoot and fruit borer management technique in okra.

Technology assessed: Okra is an important commercial crop of Delhi NCT region.

<table>
<thead>
<tr>
<th>Technology Option</th>
<th>No. of trials</th>
<th>Infestation (%)</th>
<th>Yield (kg/ha)</th>
<th>% Increase in yield over farmer’s practice</th>
<th>Net return Rs/ha</th>
<th>B:C ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1- Farmers Practice-cartaphydrochloride (SD) 1gm/lit water</td>
<td>05</td>
<td>14.6</td>
<td>7112</td>
<td></td>
<td>142240</td>
<td>1.42:1</td>
</tr>
<tr>
<td>T2- Spray of spinosol (45SL) @ 0.5ml/L water at 15 days interval</td>
<td></td>
<td>6.0</td>
<td>8066</td>
<td>11.8</td>
<td>161320</td>
<td>1.65:1</td>
</tr>
</tbody>
</table>

NUTRIENT MANAGEMENT

Problem definition: Areas are deficient in boron as per soil test basis.

Technology assessed: Foliar application of Boron.

KVK, Delhi conducted an on-farm trial on mustard crop in the rabi season 2018-19 to assess the effect of foliar application of boron on yield and yield attributes of mustard crop to enhance the productivity of crop. The foliar application of Boron @ 0.25% boric acid was assessed at 40 and 60 days after sowing. The maximum average yield of mustard crop was reported with foliar application of Boron as compared to farmer practices.

<table>
<thead>
<tr>
<th>Technology Option</th>
<th>No. of trials</th>
<th>Yield (kg./ha)</th>
<th>Increase in Yield (%)</th>
<th>B:C Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1-Farmers Practice (No use of micronutrient)</td>
<td>5</td>
<td>2250</td>
<td>--</td>
<td>2.64</td>
</tr>
<tr>
<td>T2-Foliar application of Boron @ 0.25% boric acid at 40 and 60 Days after sowing.</td>
<td></td>
<td>2474</td>
<td>10.00</td>
<td>2.85</td>
</tr>
</tbody>
</table>

Growth and yield attributes:

<table>
<thead>
<tr>
<th>Treatments</th>
<th>Average primary branches per plant</th>
<th>Average number of siliqueae per plant</th>
<th>Average number of seeds per siliqueae</th>
<th>Average plant height (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1-Farmers Practice</td>
<td>4.3</td>
<td>410</td>
<td>11</td>
<td>190</td>
</tr>
<tr>
<td>T2-Foliar application of Boron @ 0.25% boric acid at 40 &amp; 60 Days after sowing.</td>
<td>5.8</td>
<td>472</td>
<td>13.3</td>
<td>193</td>
</tr>
</tbody>
</table>
NUTRIENT MANAGEMENT

Problem definition: Lower productivity in rabi onion.
Technology assessed: Nutrient management in rabi onion.

KVK, Delhi conducted an on-farm trial to find out appropriate nutrient management practice to enhance the rabi onion productivity. The assessed practice of application of elemental sulphur @ 45 Kg/ha (basal dose) was found to be better with 4.82% increase in yield.

Table: Effect of elemental sulphur on increasing yield in rabi onion crop.

<table>
<thead>
<tr>
<th>Technology Option</th>
<th>No. of trials</th>
<th>Bulb size(cm)</th>
<th>Plant height(cm)</th>
<th>Yield (kg/ha)</th>
<th>Increase in Yield (%)</th>
<th>B:C Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1- Farmers Practice (No use of elemental sulphur)</td>
<td>05</td>
<td>52</td>
<td>41.6</td>
<td>19080</td>
<td>--</td>
<td>2.00</td>
</tr>
<tr>
<td>T2-Application of elemental sulphur @ 45 Kg/ha (basal dose)</td>
<td>62</td>
<td>44.8</td>
<td>20000</td>
<td>04.82</td>
<td>2.09</td>
<td></td>
</tr>
</tbody>
</table>

NUTRIENT MANAGEMENT

Problem definition: Lower productivity in cauliflower.
Technology Assessed: Nutrient management in cauliflower.

KVK, Delhi conducted an on-farm trial to find out appropriate nutrient management practice to control nutritional disorder & enhance the cauliflower productivity. The assessed foliar application of Borax @ 0.3% + Ammonium molybdate @ 0.05% at 45 DAT was found to be better with 8.00% increase in yield.

Table: Effect of foliar application of Borax @ 0.3% + Ammonium molybdate @ 0.05% at 45 DAT in cauliflower.

<table>
<thead>
<tr>
<th>Technology Option</th>
<th>No. of trials</th>
<th>Curd weight(gm)</th>
<th>Plant height (cm)</th>
<th>Yield (kg/ha)</th>
<th>Increase in Yield (%)</th>
<th>B:C Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1- Farmers Practice (No use of micronutrients)</td>
<td>5</td>
<td>775</td>
<td>27.1</td>
<td>18240</td>
<td>--</td>
<td>3.50</td>
</tr>
<tr>
<td>T2-Foliar spray of of Borax @ 0.3% + Ammonium molybdate @ 0.05% at 45 DAT</td>
<td></td>
<td>848</td>
<td>30.0</td>
<td>19700</td>
<td>8.00</td>
<td>3.78</td>
</tr>
</tbody>
</table>

INTEGRATED NUTRIENT MANAGEMENT

Problem definition: Lower yield in wheat crop.
Technology Assessed: Integrated Nutrient Management in wheat.

KVK, Delhi assessed the technology of Integrated Nutrient Management by the application of effect of fertilizer on the soil test basis with Nitrogen @ 120 kg, Phosphorus @ 60kg, Potassium @ 40kg and Zinc @ 5 kg / ha along with the bio fertilizers over the farmers practice of application of Nitrogen and Phosphorus only.
Table: Performance of wheat to integrated nutrient management

<table>
<thead>
<tr>
<th>Technology Option</th>
<th>No. of trials</th>
<th>Yield q t./ha</th>
<th>Increase in yield (%)</th>
<th>Net Return (Rs./ha)</th>
<th>B:C Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>T₁ – Farmer’s Practice (N&amp;P application)</td>
<td>3</td>
<td>47.50</td>
<td>-</td>
<td>49625</td>
<td>2.48</td>
</tr>
<tr>
<td>T₂ – Application of fertilizer on the soil test basis N, P, K &amp; Zinc + Bio fertilizers</td>
<td>5</td>
<td>50.50</td>
<td>6.50</td>
<td>54875</td>
<td>2.64</td>
</tr>
</tbody>
</table>

Growth, yield attribute and soil fertility status:

<table>
<thead>
<tr>
<th>Treatments</th>
<th>Plant Height (cm)</th>
<th>1000 grain weight (g)</th>
<th>Fertility status of soil</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>N (Kg/ha)</td>
</tr>
<tr>
<td>T₁ – Farmer’s Practice (N&amp;P application)</td>
<td>91</td>
<td>37</td>
<td>280</td>
</tr>
<tr>
<td>T₂ – Application of fertilizer on the soil test basis N, P, K &amp; Zinc + Bio fertilizers</td>
<td>98</td>
<td>40</td>
<td>310</td>
</tr>
</tbody>
</table>

POST HARVEST TECHNOLOGY/VALUE ADDITION

Problem definition: Non utilization of available Aonla, Ber and Beetroot in processed and preserved form.

Technology assessed: Assessment of the acceptability of the ladoo prepared from Beetroot, Ber & Aonla.

KVK, Delhi assessed the technology on value addition in the Beetroot, Ber & Aonla to develop ladoo. The preparation of ladoo from ber (20%), aonla (20%) and beetroot (10%) along with equal amount of sugar (50%) were kept in oven at 60°C for 2 hours. The material then taken out, cooled and then shaped in to the rounded structure.

Table: Acceptance of ladoo prepared with Aonla, Beetroot and Ber.

<table>
<thead>
<tr>
<th>Technology Option</th>
<th>No. of trials</th>
<th>Organoleptic acceptability in terms of taste (%)</th>
<th>Organoleptic acceptability in terms of color (%)</th>
<th>Result of assessment</th>
<th>Famers reaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>T₁ – Farmer’s Practice (Aonla Ladoo)</td>
<td>5</td>
<td>55</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T₂ – Ber (20%), Aonla (20%) and Beetroot (10%) with equal amount of sugar (50%) ladoo</td>
<td></td>
<td>80</td>
<td>90</td>
<td>Ladoo in combination of ber, aonla beetroot was liked by the majority in terms of taste (80%)</td>
<td>Majority of the population showing keen interest in ladoo and it can become effective tool in improving the nutritional status of the masses.</td>
</tr>
</tbody>
</table>
## II. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2019 and recommended for large scale adoption in the district

<table>
<thead>
<tr>
<th>S. No</th>
<th>Crop/Enterprise</th>
<th>Thematic Area*</th>
<th>Technology demonstrated</th>
<th>Details of popularization methods suggested to the Extension system</th>
<th>Horizontal spread of technology</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No. of villages</td>
</tr>
<tr>
<td></td>
<td>Mustard</td>
<td>Varietal Evaluation</td>
<td>Improved variety of mustard crop- Giriraj and RH-749</td>
<td>Through Frontline demonstrations and result demonstrations and Trainings and other relevant extension activities</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Mustard</td>
<td>Integrated disease management</td>
<td>IDM in Mustard</td>
<td>Through Frontline demonstrations and result demonstrations and other relevant extension activities</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Wheat</td>
<td>Varietal Evaluation</td>
<td>HYV of wheat HD-3086</td>
<td>Through Frontline demonstrations and result demonstrations and Trainings and other relevant extension activities</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Gram</td>
<td>Varietal Evaluation</td>
<td>Improved variety –GNG-1958</td>
<td>Through Frontline demonstrations and result demonstrations and Trainings and other relevant extension activities</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Onion</td>
<td>Varietal Evaluation</td>
<td>Improved variety Rabi onion</td>
<td>Through Frontline demonstrations and result demonstrations and other relevant extension activities</td>
<td>5</td>
</tr>
</tbody>
</table>
*Thematic areas as given in Table 3.1 (A1 and A2)*

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

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Crop</th>
<th>Thematic area</th>
<th>Technology Demonstrated</th>
<th>Season and year</th>
<th>Area (ha)</th>
<th>No. of farmers/ Demonstration</th>
<th>Reasons for shortfall in achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Proposed</td>
<td>Actual</td>
<td>SC/ST</td>
<td>Others</td>
<td>Total</td>
</tr>
<tr>
<td>01.</td>
<td>Mustard</td>
<td>Varietal Evaluation</td>
<td>Improved variety of mustard</td>
<td>Rabi 2018-19</td>
<td>30.00</td>
<td>42.6</td>
<td>-</td>
</tr>
<tr>
<td>02.</td>
<td>Mustard</td>
<td>Integrated disease management</td>
<td>IDM in Mustard</td>
<td>Rabi 2018-19</td>
<td>4.00</td>
<td>4.00</td>
<td>2</td>
</tr>
<tr>
<td>03.</td>
<td>Wheat</td>
<td>Varietal Evaluation</td>
<td>HYV of wheat- HD-3086</td>
<td>Rabi 2018-19</td>
<td>7.20</td>
<td>7.20</td>
<td>-</td>
</tr>
<tr>
<td>04.</td>
<td>Gram</td>
<td>Varietal Evaluation</td>
<td>Improved variety – GNG-1958</td>
<td>Rabi 2018-19</td>
<td>20.00</td>
<td>13.60</td>
<td>-</td>
</tr>
<tr>
<td>05.</td>
<td>Onion</td>
<td>Varietal Evaluation</td>
<td>Improved variety Rabi variety</td>
<td>Rabi 2018-19</td>
<td>-</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>07.</td>
<td>Summer moong</td>
<td>Crop diversification</td>
<td>Improved variety of summer moong MH-21</td>
<td>Summer 2019</td>
<td>30</td>
<td>30</td>
<td>-</td>
</tr>
</tbody>
</table>

Details of farming situation

<table>
<thead>
<tr>
<th>Crop</th>
<th>Season</th>
<th>Farming situation (RF/Irrigate d)</th>
<th>Soil type</th>
<th>Status of soil</th>
<th>Previous crop</th>
<th>Sowing date</th>
<th>Harvest date</th>
<th>Seasonal rainfall (mm)</th>
<th>No. of rainy days</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mustard</td>
<td>Rabi</td>
<td>Irrigated</td>
<td>Sandy loam</td>
<td>M M M</td>
<td>Fallow/Rice</td>
<td>16-22/10/2018</td>
<td>5-10/03/2019</td>
<td>54.6 mm</td>
<td>7 Days</td>
</tr>
<tr>
<td>Mustard</td>
<td>Rabi</td>
<td>Irrigated</td>
<td>Sandy loam</td>
<td>M M M</td>
<td>Fallow</td>
<td>9/10/2018</td>
<td>22/3/2019</td>
<td>54.6 mm</td>
<td>7 Days</td>
</tr>
<tr>
<td>Wheat</td>
<td>Rabi</td>
<td>Irrigated</td>
<td>Sandy loam</td>
<td>M M M</td>
<td>Fallow/Rice</td>
<td>7-10/11/2018</td>
<td>10-20/04/2019</td>
<td>54.6 mm</td>
<td>7 Days</td>
</tr>
<tr>
<td>Gram</td>
<td>Rabi</td>
<td>Irrigated</td>
<td>Sandy loam</td>
<td>M M M</td>
<td>Rice</td>
<td>02-05/10/2018</td>
<td>10-15/04/2019</td>
<td>54.6 mm</td>
<td>7 Days</td>
</tr>
<tr>
<td>Rabi</td>
<td>Onion</td>
<td>Rabi</td>
<td>Sandy loam</td>
<td>M M M</td>
<td>Fallow</td>
<td>25/11/2018</td>
<td>12/5/2019</td>
<td>54.6 mm</td>
<td>7 Days</td>
</tr>
<tr>
<td>Pearl Millet</td>
<td>kharif</td>
<td>Irrigated</td>
<td>Sandy loam</td>
<td>M M M</td>
<td>Wheat/Mustard</td>
<td>2/07/2019-15/07/2019</td>
<td>25/09/2019-15/10/2019</td>
<td>47 mm</td>
<td>7 days</td>
</tr>
</tbody>
</table>
Technical Feedback on the demonstrated technologies

<table>
<thead>
<tr>
<th>S. No</th>
<th>Feed Back</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>RH 749 is high yielding variety of mustard crop followed by Giriraj for timely sown condition and better performance in Delhi NCT Region.</td>
</tr>
<tr>
<td>2</td>
<td>Chick pea variety GNG 1958 found suitable for the region.</td>
</tr>
<tr>
<td>3</td>
<td>The variety of wheat crop HD 3086 performed better on timely sown in Delhi NCT region.</td>
</tr>
<tr>
<td>4</td>
<td>MH-421 variety of moong crop is suitable in rice -wheat cropping system.</td>
</tr>
<tr>
<td>5</td>
<td>Mustard variety P-30 was suitable to the area with average yield of 30-36q/ha</td>
</tr>
</tbody>
</table>

Farmers’ reactions on specific technologies

<table>
<thead>
<tr>
<th>S. No</th>
<th>Feed Back</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mustard Demonstrated plots reported 15.5% more yield than local check plots due to better management practice.</td>
</tr>
<tr>
<td>2</td>
<td>Wheat Cost of cultivation reduces on using happy seeder and zero-seed cum ferti-seed drill.</td>
</tr>
<tr>
<td>3</td>
<td>Mustard The variety P-30 was good in yield and used for consumption</td>
</tr>
</tbody>
</table>

Extension and Training activities under FLD

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Activity</th>
<th>No. of activities organized</th>
<th>Date</th>
<th>Number of participants</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Field days</td>
<td>5</td>
<td>01/03/2019 (Mustard), 29.03.2019 (Gram), wheat 4/4/2019, 1/07/2019 (summer moong)</td>
<td>164</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Farmers Training</td>
<td>1</td>
<td>23-24/01/2019</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Media coverage</td>
<td>2</td>
<td>1/1/2019</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Training for extension functionaries</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
# Performance of Frontline demonstrations

## Frontline demonstrations on oilseed crops (including NSFM)

<table>
<thead>
<tr>
<th>Crop</th>
<th>Thematic Area</th>
<th>technology demonstrated</th>
<th>Variety</th>
<th>No. of Farmers</th>
<th>Area (ha)</th>
<th>Yield (q/ha)</th>
<th>% Increase in yield</th>
<th>Economics of demonstration (Rs./ha)</th>
<th>Economics of check (Rs./ha)</th>
<th>BCR (R/C)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mustard</strong></td>
<td>Varietal Evaluation</td>
<td>Improved variety + Nutrient and weed management</td>
<td>RH-749</td>
<td>66</td>
<td>26.4</td>
<td>27.00</td>
<td>18.00</td>
<td>23.80</td>
<td>19.00</td>
<td>25.26</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Giriraj</td>
<td></td>
<td>40</td>
<td>16.00</td>
<td>25.00</td>
<td>17.00</td>
<td>21.80</td>
<td>19.00</td>
<td>14.70</td>
</tr>
<tr>
<td></td>
<td>Integrated Disease Management</td>
<td>IDM in Mustard</td>
<td>RH 749</td>
<td>10</td>
<td>4</td>
<td>24.20</td>
<td>21.10</td>
<td>22.86</td>
<td>20.10</td>
<td>13.73</td>
</tr>
</tbody>
</table>

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

## Frontline demonstration on pulse crops (including NSFM)

<table>
<thead>
<tr>
<th>Crop</th>
<th>Thematic Area</th>
<th>technology demonstrated</th>
<th>Variety</th>
<th>No. of Farmers</th>
<th>Area (ha)</th>
<th>Yield (q/ha)</th>
<th>% Increase in yield</th>
<th>Economics of demonstration (Rs./ha)</th>
<th>Economics of check (Rs./ha)</th>
<th>BCR (R/C)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Summer Green gram</strong></td>
<td>Varietal Evaluation</td>
<td>Improved variety + Nutrient and weed management</td>
<td>MH-421</td>
<td>75</td>
<td>30</td>
<td>7.00</td>
<td>11.00</td>
<td>9.20</td>
<td>7.50</td>
<td>22.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>22200</td>
<td>53360</td>
<td>29405</td>
<td>2.2</td>
<td>23955</td>
</tr>
<tr>
<td><strong>Chickpea</strong></td>
<td>Varietal Evaluation</td>
<td>Improved variety + Nutrient and weed management</td>
<td>GNG-1958</td>
<td>34</td>
<td>13.6</td>
<td>20.00</td>
<td>13.30</td>
<td>16.52</td>
<td>14.00</td>
<td>18.00</td>
</tr>
</tbody>
</table>

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

** FLD on Other crops **

<table>
<thead>
<tr>
<th>Category &amp; Crop</th>
<th>Thematic Area</th>
<th>Name of the technology</th>
<th>No. of Farmers</th>
<th>Area (ha)</th>
<th>Yield (q/ha)</th>
<th>% Change in Yield</th>
<th>Economics of demonstration (Rs./ha)</th>
<th>BCR (R/C)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Demo Check</td>
<td>Gross Cost</td>
<td>Gross Return</td>
</tr>
<tr>
<td><strong>Cereals</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>High Low Average</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Wheat</strong></td>
<td>Varietal Evaluation</td>
<td>Improved variety of wheat HD-3086</td>
<td>18</td>
<td>7.2</td>
<td></td>
<td>49.5 45.00 19.00</td>
<td>54000 91080 37080</td>
<td>1.68</td>
</tr>
<tr>
<td><strong>Onion</strong></td>
<td>Varietal Evaluation</td>
<td>Improved variety of Rabi onion</td>
<td>12</td>
<td>5</td>
<td>212.5 182 193.8 187.5</td>
<td>68750 145350 76600</td>
<td>2.11</td>
<td></td>
</tr>
</tbody>
</table>

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

** FLD on Women Empowerment **

<table>
<thead>
<tr>
<th>Category</th>
<th>Name of technology</th>
<th>No. of demonstrations</th>
<th>Name of observations</th>
<th>Demonstration</th>
<th>Check</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mustard</td>
<td>Nutritional Security</td>
<td>10</td>
<td>low erucic acid</td>
<td>Demonstration on Biofortified crops</td>
<td></td>
</tr>
<tr>
<td>Pearl Millet</td>
<td>Nutritional Security</td>
<td>7</td>
<td>Iron and zinc content and yield</td>
<td>Demonstration on Biofortified crops</td>
<td></td>
</tr>
</tbody>
</table>
### FLD on Other Enterprise: Kitchen Gardening

<table>
<thead>
<tr>
<th>Category and Crop</th>
<th>Thematic area</th>
<th>Name of the technology demonstrated</th>
<th>No. of Farmer</th>
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**Note:** Remove the Enterprises/crops which have not been shown
### III. Training Programme

Farmers’ Training including sponsored training programmes (on campus)

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### III Soil Health and Fertility Management

- Soil fertility management
- Integrated water management
- Integrated Nutrient Management
- Production and use of organic inputs
- Management of Problematic soils
- Micro nutrient deficiency in crops
- Nutrient Use Efficiency
- Balance use of fertilizers

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### IV Livestock Production and Management

- Dairy Management
- Poultry Management
- Piggery Management
- Rabbit Management
- Animal Nutrition Management
- Disease Management
- Feed & fodder technology
- Production of quality animal products

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### V Home Science/Women empowerment

- Household food security by kitchen gardening and nutrition gardening
- Design and development of low/minimum cost diet
- Designing and development for high nutrient efficiency diet
- Minimization of nutrient loss in processing
- Processing and cooking
- Gender mainstreaming through SHGs

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| VII Plant Protection                             |              |                      |                    |       |
| Integrated Pest Management                       |              |                      |                    |       |
| Integrated Disease Management                    |              |                      |                    |       |
| Bio-control of pests and diseases               |              |                      |                    |       |
| Production of bio control agents and bio pesticides |          |                      |                    |       |
| Others (pl specify)                              |              |                      |                    |       |
| Total                                             |              |                      |                    |       |

| VIII Fisheries                                   |              |                      |                    |       |
| Integrated fish farming                         |              |                      |                    |       |
| Carp breeding and hatchery management            |              |                      |                    |       |
| Carp fry and fingerling rearing                  |              |                      |                    |       |
| Composite fish culture                          |              |                      |                    |       |
| Hatchery management and culture of freshwater prawn |          |                      |                    |       |
| Breeding and culture of ornamental fishes        |              |                      |                    |       |
| Portable plastic carp hatchery                   |              |                      |                    |       |
| Pen culture of fish and prawn                    |              |                      |                    |       |
| Shrimp farming                                   |              |                      |                    |       |
| Edible oyster farming                            |              |                      |                    |       |
| Pearl culture                                    |              |                      |                    |       |
| Fish processing and value addition               |              |                      |                    |       |
| Others (pl specify)                              |              |                      |                    |       |
| Total                                             |              |                      |                    |       |

| IX Production of Inputs at site                  |              |                      |                    |       |
| Seed Production                                  |              |                      |                    |       |
| Planting material production                     |              |                      |                    |       |
| Bio-agents production                            |              |                      |                    |       |
| Bio-pesticides production                        |              |                      |                    |       |
| Bio-fertilizer production                        |              |                      |                    |       |
| Vermi-compost production                         |              |                      |                    |       |
| Organic manures production                       |              |                      |                    |       |
| Production of fry and fingerlings                |              |                      |                    |       |
| Production of Bee-colonies and wax sheets         |              |                      |                    |       |
| Small tools and implements                       |              |                      |                    |       |
| Production of livestock feed and fodder          |              |                      |                    |       |
| Production of Fish feed                          |              |                      |                    |       |
| Mushroom Production                              |              |                      |                    |       |

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Farmers’ Training including sponsored training programmes (off campus)

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### IV Livestock Production and Management

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Farmers’ Training including sponsored training programmes – CONSOLIDATED (On + Off campus)

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## II Horticulture

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## III Soil Health and Fertility Management

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## Livestock Production and Management

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<td>Piggery Management</td>
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<td>Rabbit Management</td>
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<td>Animal Nutrition Management</td>
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<td>Disease Management</td>
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## Home Science/Women Empowerment

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## Agriculture Engineering

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## Plant Protection

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**VIII Fisheries**

- Integrated fish farming
- Carp breeding and hatchery management
- Carp fry and fingerling rearing
- Composite fish culture
- Hatchery management and culture of freshwater prawn
- Breeding and culture of ornamental fishes
- Portable plastic carp hatchery
- Pen culture of fish and prawn
- Shrimp farming
- Edible oyster farming
- Pearl culture
- Fish processing and value addition
- Others (pl specify)

**Total**

**IX Production of Inputs at site**

- Seed Production
- Planting material production
- Bio-agents production
- Bio-pesticides production
- Bio-fertilizer production
- Vermi-compost production
- Organic manures production
- Production of fry and fingerlings
- Production of Bee-colonies and wax sheets
- Small tools and implements
- Production of livestock feed and fodder
- Production of Fish feed
- Mushroom Production
- Apiculture
- Others (pl specify)

**Total**

**X Capacity Building and Group Dynamics**

- Leadership development
- Group dynamics
- Formation and Management of SHGs
- Mobilization of social capital
- Entrepreneurial development of farmers/youths
- WTO and IPR issues
- Others (pl specify)

**Total**

**XI Agro-forestry**

- Production technologies
- Nursery management
- Integrated Farming Systems
- Others (pl specify)

**Total**

**GRAND TOTAL**

26  322  196  518  26  10  36  348  206  554
### Training for Rural Youths including sponsored training programmes (On campus)

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Agricultural Extension

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## IV. Extension Programmes

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## Kisan Mobile Advisory

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**Total Messages**

| Total farmers Benefitted | 11098 | 777 | 1671 | - | 3711 | - | 17257 |

**Total farmers Benefitted**: 17,257
## VI. PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS

### Production of seeds by the KVKs

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<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td>155.49</td>
<td>947282.50</td>
<td>1580</td>
</tr>
</tbody>
</table>
Production of planting materials by the KVK

<table>
<thead>
<tr>
<th>Crop</th>
<th>Name of the crop</th>
<th>Name of the variety</th>
<th>Name of the hybrid</th>
<th>Number</th>
<th>Value (Rs.)</th>
<th>Number of farmers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vegetable seedlings</td>
<td>Tomato</td>
<td>Arka Rakshak</td>
<td>-</td>
<td>2500</td>
<td>5000</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Brinjal</td>
<td>Pusa Uttam</td>
<td>-</td>
<td>1500</td>
<td>3000</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Cabbage</td>
<td>Golden Acre</td>
<td>-</td>
<td>1000</td>
<td>2000</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Chilli</td>
<td>P-Sadabahar</td>
<td>-</td>
<td>250</td>
<td>500</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Cauliflower</td>
<td>Agehni</td>
<td>-</td>
<td>2500</td>
<td>5000</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Onion</td>
<td>NHRDF Red-2 NHRDF Red-3 NHRDF Red-4 ALR</td>
<td>300000(100 kg)</td>
<td>10000</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Fruits</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ornamental plants</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medicinal and Aromatic</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plantation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuber</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fodder crop saplings</td>
<td>Napier grass</td>
<td>-</td>
<td>Hybrid Bajra</td>
<td>1000</td>
<td>2000</td>
<td>5</td>
</tr>
<tr>
<td>Forest Species</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fodder</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>308750</strong></td>
<td><strong>27500</strong></td>
<td><strong>105</strong></td>
</tr>
</tbody>
</table>
### Production of Bio-Products

<table>
<thead>
<tr>
<th>Bio Products</th>
<th>Name of the bio-product</th>
<th>Quantity</th>
<th>Value (Rs.)</th>
<th>No. of Farmers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bio Fertilisers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bio-pesticide</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bio-fungicide</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bio Agents</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td>Vermi compost</td>
<td>4565</td>
<td>45560</td>
<td>50</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>4565</td>
<td>45560</td>
<td>50</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Samples</th>
<th>No. of Samples</th>
<th>No. of Farmers</th>
<th>No. of Villages</th>
<th>Amount realized (Rs.)</th>
<th>No. of soil health cards distributed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil</td>
<td>25</td>
<td>25</td>
<td>10</td>
<td>-</td>
<td>25</td>
</tr>
<tr>
<td>Water</td>
<td>65</td>
<td>55</td>
<td>19</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Plant</td>
<td>58</td>
<td>58</td>
<td>16</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Manure</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others (pl.specify)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>148</td>
<td>138</td>
<td>45</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

#### VIII. SCIENTIFIC ADVISORY COMMITTEE

<table>
<thead>
<tr>
<th>Name of KVK</th>
<th>Date of SAC Meeting</th>
<th>Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>KVK, Delhi</td>
<td>23/09/2019</td>
<td>22</td>
</tr>
</tbody>
</table>

#### IX. NEWSLETTER/MAGAZINE

<table>
<thead>
<tr>
<th>Name of News letter/Magazine</th>
<th>No. of Copies printed for distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Krishi Vahini (January- June 2019)</td>
<td>500</td>
</tr>
</tbody>
</table>
X. PUBLICATIONS

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Paper</td>
<td>1</td>
</tr>
<tr>
<td>Technical bulletins</td>
<td>5</td>
</tr>
<tr>
<td>Technical reports</td>
<td>3</td>
</tr>
<tr>
<td>Others (pl. specify)</td>
<td></td>
</tr>
<tr>
<td>Training Manual (Seasonal Preservation of Fruits &amp; Vegetables)</td>
<td>1</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Activities conducted</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Training programmes</td>
</tr>
<tr>
<td>---------------------------------------</td>
</tr>
<tr>
<td>10</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

XII. Large scale adoption of resource conservation technologies

<table>
<thead>
<tr>
<th>Crops/cultivars and gist of resource conservation technologies introduced</th>
<th>Area (ha)</th>
<th>Number of farmers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Happy Seeder in wheat</td>
<td>25</td>
<td>20</td>
</tr>
<tr>
<td>Zero Tillage in wheat crop</td>
<td>150</td>
<td>80</td>
</tr>
<tr>
<td>Mulcher/ Shrub Master</td>
<td>250</td>
<td>100</td>
</tr>
<tr>
<td>Total</td>
<td>425</td>
<td>200</td>
</tr>
</tbody>
</table>

Awareness campaign under Jal Shakti

<table>
<thead>
<tr>
<th>Meetings</th>
<th>Gosthies</th>
<th>Field days</th>
<th>Farmers fair</th>
<th>Exhibition</th>
<th>Film show</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of farmers</td>
<td>No.</td>
<td>No. of farmers</td>
<td>No.</td>
<td>No. of farmers</td>
<td>No.</td>
</tr>
<tr>
<td>8</td>
<td>222</td>
<td>5</td>
<td>590</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total</td>
<td>8</td>
<td>222</td>
<td>5</td>
<td>590</td>
<td>-</td>
</tr>
</tbody>
</table>

Awareness campaign under FPO formation

<table>
<thead>
<tr>
<th>Meetings</th>
<th>Gosthies</th>
<th>Field days</th>
<th>Farmers fair</th>
<th>Exhibition</th>
<th>Film show</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of farmers</td>
<td>No.</td>
<td>No. of farmers</td>
<td>No.</td>
<td>No. of farmers</td>
<td>No.</td>
</tr>
<tr>
<td>3</td>
<td>50</td>
<td>1</td>
<td>76</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total</td>
<td>3</td>
<td>50</td>
<td>1</td>
<td>76</td>
<td>-</td>
</tr>
</tbody>
</table>

Fertilizer uses Awareness Programme dated 15/10/2019 and 22/10/2019

<table>
<thead>
<tr>
<th>Meetings</th>
<th>Gosthies</th>
<th>Field days</th>
<th>Farmers fair</th>
<th>Exhibition</th>
<th>Film show</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of farmers</td>
<td>No.</td>
<td>No. of farmers</td>
<td>No.</td>
<td>No. of farmers</td>
<td>No.</td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>1</td>
<td>40</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total</td>
<td>-</td>
<td>1</td>
<td>40</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Meetings</th>
<th>Gosthies</th>
<th>Field days</th>
<th>Farmers fair</th>
<th>Exhibition</th>
<th>Film show</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>No. of farmers</td>
<td>No.</td>
<td>No. of farmers</td>
<td>No.</td>
<td>No. of farmers</td>
</tr>
<tr>
<td>6</td>
<td>133</td>
<td>2</td>
<td>80</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>6</td>
<td>133</td>
<td>2</td>
<td>80</td>
<td></td>
</tr>
</tbody>
</table>

DELHI-ENVIRO-QUEST-2019-20

KVK organized a State Level Programme in the form of “Delhi-Enviro-Quest-2018-20” held at Shiskha Bharati Global School, Dwarka, New Delhi on 19 to 20 November, 2018 and 27 to 28 November, 2019 under Central Sector Scheme “In-Situ Crop Residue Management” Sponsored by Indian Council of Agricultural Research, New Delhi. The main motive of the programme was to stimulate the thoughtful minds of Delhi youth about this burning issue through different events like Debate, Extempore, Slogan Writing, Poster Making and General Knowledge Quiz competition at school level.

NUMBER OF PARTICIPATING SCHOOLS

Number of participating schools in Delhi Enviro-Quest-2018-20

<table>
<thead>
<tr>
<th>S. No.</th>
<th>School Name</th>
<th>Total Participation by Schools -2018</th>
<th>Total Participation by Schools -2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>KendriyaVidyalaya, NCT of Delhi</td>
<td>31</td>
<td>18</td>
</tr>
<tr>
<td>2</td>
<td>Government Schools, NCT Delhi</td>
<td>26</td>
<td>63</td>
</tr>
<tr>
<td>3</td>
<td>Private/Public Sector School</td>
<td>28</td>
<td>36</td>
</tr>
<tr>
<td>Total</td>
<td>85</td>
<td>117</td>
<td></td>
</tr>
</tbody>
</table>

EVENT-WISE DETAILS OF PARTICIPATING STUDENTS

In this competition, more than 1825 students participated from 202 Central, Government and Public Schools of NCT of Delhi. The events-wise details are given below:

Number of participating students in Delhi Enviro-Quest-2018

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Activities / Events</th>
<th>2018-19</th>
<th>2019-20</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Group A (6th to 8th Classes)</td>
<td>Group B (9th to 10th Classes)</td>
</tr>
<tr>
<td>1.</td>
<td>Debate</td>
<td>75</td>
<td>79</td>
</tr>
<tr>
<td>2.</td>
<td>Extempore</td>
<td>60</td>
<td>58</td>
</tr>
<tr>
<td>3.</td>
<td>Slogan Writing</td>
<td>92</td>
<td>79</td>
</tr>
<tr>
<td>4.</td>
<td>Poster Making</td>
<td>103</td>
<td>90</td>
</tr>
<tr>
<td>5.</td>
<td>General Knowledge Quiz / Suggest the Best</td>
<td>74</td>
<td>90</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>404</td>
<td>396</td>
</tr>
<tr>
<td>Total Student Participated</td>
<td>800</td>
<td></td>
<td>1025</td>
</tr>
</tbody>
</table>
### XIII. DETAILS ON HRD ACTIVITIES

#### A. HRD activities organized in identified areas for KVK staff by the Directorate of Extension/ICAR/other Institutes

<table>
<thead>
<tr>
<th>Name of the SAU</th>
<th>Title of the training programmes</th>
<th>No of programmes</th>
<th>No. of Participants</th>
<th>No. of KVKs involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAIC, Sonipat, Haryana</td>
<td>National Seminar on Mushroom production technology &amp; Innovation</td>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>NHB, Gurgaon</td>
<td>National workshop on cluster development of pomegranate, banana and mango</td>
<td>1</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>RBI, New Delhi</td>
<td>Financial Literacy Week on Responsible Borrowing and Agricultural Finance</td>
<td>1</td>
<td>42</td>
<td>1</td>
</tr>
<tr>
<td>Min. of Agri.&amp; Farmers Welfare</td>
<td>National conference of farmers on In-situ crop residue management</td>
<td>1</td>
<td>60</td>
<td>1</td>
</tr>
<tr>
<td>NABARD, Mumbai</td>
<td>Seminar on Engaging Youth Gainfully.</td>
<td>1</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>ISEE, CCSHAU, Hisar &amp; Banda University of Agriculture &amp; Technology, Banada</td>
<td>National Seminar on Socio-Digital Approaches for transforming Indian Agriculture</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>CEZ Co.Ltd., New Delhi</td>
<td>Awareness workshop on Solar energy water use</td>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Manage, Hyderabad</td>
<td>ICT Application in E-governance</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>8</strong></td>
<td><strong>123</strong></td>
<td><strong>8</strong></td>
</tr>
</tbody>
</table>

#### B. HRD activities organized in identified areas for KVK staff by ATARI

<table>
<thead>
<tr>
<th>Title of the training programmes</th>
<th>No of programmes</th>
<th>No. of Participants</th>
<th>No. of KVKs involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual Action Plan-2019-20 and State Level Work plan (2019-20) workshop for KVK of Haryana and Delhi</td>
<td>1</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Zonal Workshop-cum-Training Programme on oilseed Production Technology</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>
XIV. CASE STUDIES

1. Processing of pearl millet – An emerging enterprise

INTRODUCTION: The rural Delhi is undergoing tremendous change and unprecedented transformation, especially shift form farm to non-farm economy in NCT region and adjoining areas. Declining land-holding, rain fed conditions in the rural districts and landlessness is cause of concern in the state. This calls for development of farm based social micro enterprises especially value addition of pearl millet and locally produced fruits and vegetables. This can play an important role by providing health package to the people coupled with their sustainable economic development too. Moreover, nutritionally rich high yielding varieties of pearl millet are coming up on a larger area under district. This nutri-millet will provide health package to people by preventing them from micro-nutrient deficiency diseases. Value added products of pearl millet can also provide nutritional security and economic empowerment of rural women.

KVK INTERVENTION: KVK has been conducting trainings, demonstrations and other extension activities on value addition of pearl millet. Rigorous campaigning through trainings, demonstrations, extension literature, exposure visits has been done on nutritional importance of pearl millet as a rich source of protein, calcium, iron, potassium, fiber and other micro-nutrients essential for good health. On farm trial was also conducted on pearl millet/bajra biscuits for assessment and refinement for further modifications. During the year 2012-13 KVK conducted vocational training on processing of pearl millet, sponsored by NABARD, New Delhi. A total of 25 trainees successfully attended the programme. The technique for making pearl millet biscuit attracted the one of trainee Smt. Sunita from village Mitraon and wants to start this as an income generation enterprise. Smt. Sunita running an Self help Group, named Ganga with the support of NGO. She was very keen to involve her group members in this enterprise and in future want to establish this practice as a source of regular income generation enterprise by involving more women. Training and high-level motivation encouraged her to start her own entrepreneur of bajra biscuit bakery unit. Smt. Sunita has started with the initial investment of Rs. 4000/ and baked 8kg of bajra biscuits at local bakery. At that time only 10-12 packets were sold in local market and rest were distributed in neighborhood for tasting, since the product was new for the area and was not liked very much by the locals. Smt. Sunita put up this problem to KVK expert, she guided the right procedure for bajra biscuit preparation and refinement in recipe of pearl millet biscuit was done as per the opinion of majority of people and she successfully prepared bajra biscuits as per guidance. During the year 2013-14, KVK, expert motivated her to participate in the Pusa Krishi Vigyan Mela, she participated in the mela by putting up a stall to showcase value added bajra biscuits, with an investment of Rs.5000 – 6000/ the bajra biscuits fetched a good price i.e. Rs.18000- 20000. This initiative brought confidence in Smt. Sunita. After that she put up the stall at Trade
Fair and Suruj Kund Mela from where she got a good response. With support of KVK she participated in Pusa Horticulture Show in February, 2016, held at IARI, New Delhi. At that show she won first prize for her bajra biscuit, as this was new, nutritious and tasty product in the market.

OUTCOME: During the year 2015-16, she applied for setting up of small-scale bakery unit through PMEGP scheme of KVIC, New Delhi and her loan for Rs. 4.0 lakh was sanctioned during the same period. With that she has established her own bakery unit of pearl millet in her village Mitraon. As a result of the above coordinated efforts, a full-scale production unit has been established with technological back up/training from KVK, Ujwa. She has carefully developed a low-cost technology package, recipes and processing protocols through field trials based on her traditional knowledge/techniques upgraded with modern science technology inputs, availability of raw material in the area and market demand of innovative products.

IMPACT: In a short span of 4 years she has expanded her enterprise tremendously with 15 different types of bajra biscuits like bajra- jeera biscuit, bajra ajwain, bajra til bajra coconut, bajra besan, sugar free biscuit and bajra chocolate biscuit especially for children etc. At present, 160 qt of her products are generating a net income of Rs.22 lakhs from the unit and providing employment to others. Her success story has been covered by various print and electronic media like newspapers (Hindi), Doordarshan channel.

### XIII. STATUS REVOLVING FUNDS

<table>
<thead>
<tr>
<th>Year</th>
<th>Opening balance as on 1st April</th>
<th>Income during the year</th>
<th>Expenditure during the year</th>
<th>Net balance in hand as on 31st March of the year</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 2017 to March 2018</td>
<td>7420062</td>
<td>1184544</td>
<td>399150</td>
<td>8205456</td>
</tr>
<tr>
<td>April 2018 to March 2019</td>
<td>8205456</td>
<td>1106942</td>
<td>968208</td>
<td>8344190</td>
</tr>
<tr>
<td>April 2019 to December 2019</td>
<td>8344190</td>
<td>377892</td>
<td>774011</td>
<td>7975071</td>
</tr>
</tbody>
</table>
The KVKs implementing VATICA, NARI & Doubling Farmers income should submit one-page report with salient achievements along with photographs pertaining to year 2019.

**Initiative under NARI scheme during the year**

The level of nutrition in NCT Delhi is disturbing in spite of production of crops and vegetables. According to NFHS 4 (2015-16) survey, about 35% of all adults have BMI<18.5 in Delhi, more than 25% of women have a BMI below 18.5 in the age groups of 15-49 years, about 22 per cent of women suffer from chronic energy deficiencies, 78% of women (rural) in the age group of 15-49 years are anemic and 63% children in the age group of 6 months to 5 years are anemic.

It shows that food security does not directly translate into nutritional security. There is a disconnect between agriculture and nutrition which needs to be bridged. To address these issues, a scheme on Nutri Sensitive Agricultural Research and Innovation (NARI) was initiated by KVK, Ujwa, Delhi, during the year 2019. Under the scheme one village: Mitraon in Nazafgrh block, New Delhi had been selected. The following initiatives were undertaken during the year 2019:

- Under NARI programme, which is being started in the village Mitraon, Nazafgarh, New Delhi, during the year 2018-19 different agriculture interventions like field demonstrations on nutri- rich varieties, capacity building programmes, minimal processing techniques of pearl millet. The details of activities conducted during the year 2019 is given below:

  1. **Field Demonstrations on Nutri-crops**

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of crop</th>
<th>Variety</th>
<th>No. of demonstrations</th>
<th>Nutrient value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mustard</td>
<td>PM-30</td>
<td>10</td>
<td>low erucic acid</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Zero erucic acid</td>
</tr>
<tr>
<td>2</td>
<td>Pearl Millet</td>
<td>AHP-1200</td>
<td>12</td>
<td>high Fe (87 ppm) and high Zn (38 ppm)</td>
</tr>
</tbody>
</table>
Pearl millet is an important coarse grain cereal cultivated in states like Rajasthan, Uttar Pradesh and Haryana. It has rich composition of proteins and minerals and has several health benefits. It has the highest protein content for any grain. It contains several essential minerals like phosphorus, zinc, magnesium, essential vitamins and amino acids etc. Even though, it was part of the traditional diet pattern, but, now a days, due to changing cropping pattern and consumption pattern, such crops are disappearing from the field and diet as well (even though, pearl millets are being cultivated by the farmers but it was only for the fodder purpose). Vasantrao Naik Marathwada Krishi Vidhyapeeth, Parbhani, Maharashtra, developed iron rich pearl millet variety AHP-1200. This high iron content dual purpose pearl millet variety (AHP- 1200) has been demonstrated to create awareness about its high iron content and how important it is with respect to nutrition. As it was a dual-purpose variety, the stem can be used as fodder for livestock. As the farmers were having livestock, the straw (stem) was used as cattle feed, which is again an additional nutritional benefit to human beings who consume such milk and milk products.

**FLD Nutritional kitchen garden**

To ensure the regular supply and consumption of seasonal nutritious vegetables (winter vegetables), farm trainings on nutri-kitchen garden are given to farmers from project village. The vegetables included Spinach, Amaranths, Brinjal, Sem, Tomato, Carrot, Radish, Cauliflower, Vegetable Mustard, Pea, Bean, drumstick etc. Under this programme 10 demonstrations were conducted.
Capacity building interventions:

Pearl millet is an important coarse grain cereal cultivated in states like Rajasthan, Uttar Pradesh and Haryana. It has rich composition of proteins and minerals and has several health benefits. It has the highest protein content for any grain. It contains several essential minerals like phosphorus, zinc, magnesium, essential vitamins and amino acids etc. Even though, it was part of the traditional diet pattern, but, now a days, due to changing cropping pattern and consumption pattern, such crops are disappearing from the field and diet as well (even though, pearl millets are being cultivated by the farmers but it was only for the fodder purpose). Awareness cum training programme regarding shelf life enhancement of pearl millet was conducted at the village. Farm women were trained to prepare the value added products from pearl millet and oats and explained about their importance and nutritive value.

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Title of training</th>
<th>No. of participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Importance of nutritional kitchen garden</td>
<td>18</td>
</tr>
<tr>
<td>2</td>
<td>Value addition of nutricereals</td>
<td>20</td>
</tr>
<tr>
<td>3</td>
<td>Health awareness programme</td>
<td>33</td>
</tr>
</tbody>
</table>

Nutritional kitchen garden seed distribution

Kitchen garden at farmer’s field
Demonstration on preparation of Bajra cookies

**Initiative under Doubling Farmers Income (DFI)**

**Action Taken**

- Formation of FPO: In this regard KVK formed one Farmer producer organizations with the financial support of NABARD name GROFREE as a way forward to get some form of land consolidation – and an integration of smallholders within an agricultural value chain – which is critical to tackle the problem rural agrarian crisis. Such a consolidation, together with appropriate training and skill development of rural youth of the district for emerging farm and non-farm jobs, would appear to be the key to lifting the economic situation of the farmers’ district. The objective of the GROWFREE FPO is to form collectivize small farmers or producers for:
  (a) Backward linkage for inputs like seeds, fertilisers, credit, insurance, knowledge and extension services and
  (b) Forward linkages such as collective marketing, processing, market agriculture production etc. At the heart of this effort is to gain collective bargaining power for small farmers/ producers.

At present there are 100 members from Tigipur, Sungurpur and other neighbouring villages

FPO awareness and selection of Board of Directors for FPO

- The cropping system of selected villages for DFI is Rice – Wheat system result intensive tillage practices, over exploitation of natural resources declining the factor of productivity of existing
system to overcome these factors, KVK introduced the moong crop in summer season for stability and productivity of the system and chickpea in *rabi* season through frontline demonstrations.

Field Day on Summer Moong in DFI Village

Front Line Demonstration on Chickpea