

KVK, Rewari

Front Line Demonstrations 2019(Summary)

FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
2			
Area in ha		Number of Farmers	
Targets	Achievement	Targets	Achievement
169.1	169.1	413	413

**RESULTS OF FLD BAJRA KHARIF, 2019**

Previous Crop	-Mustard/Wheat	Irrigated/rainfed	- Irrigated					
Soil Type	-Loamy sand	Seasonal rainfall (mm)	- 350.70(June-Oct)					
Soil status	- N P K L M M	No. of rainy days	- 40					
Particulars	Variety	No. of demo/ area (ha.)	Average yield (qt/ha.)	% Increase in yield	Average cost of cultivation (Rs./ha.)	Average Gross Return (Rs./ha.)	Net return (Rs./ha.)	BC ratio
Demo	HHB-226	25/10	25.6	25.0	31225	64040	32815	2.05
L. check	-	-	20.4	-	26140	50310	24170	1.92

**Technology demonstrated:**

Improved variety HHB-226  
Balanced use of fertilizer (156 kg N+62kg P<sub>2</sub>O<sub>5</sub>+30kg K<sub>2</sub>O+25 kg ZnSO<sub>4</sub>)  
Weed management by Atrazine @1 kg/ha at 10-15 DAS

**Feedback:**

Balanced fertilizer application gave better result  
Size of panicle appreciated by the farmers

## RESULTS OF CFLD OILSEED (SESAME) KHARIF, 2019

<b>Previous Crop</b>		<b>-Mustard/Wheat</b>		<b>Irrigated/rainfed</b>		<b>-Irrigated</b>		
<b>Soil Type</b>		<b>-Loamy sand</b>		<b>Seasonal rainfall (mm)</b>		<b>-317(July-Sep)</b>		
<b>Soil status</b>		<b>- N P K</b>		<b>No. of rainy days</b>		<b>-35</b>		
		<b>L M M</b>						
Particulars	Variety	No. of demo/ area (ha.)	Average yield (qt/ha.)	% Increase in yield	Average cost of cultivation (Rs./ha.)	Average Gross Return (Rs./ha.)	Net return (Rs./ha.)	BC ratio
<b>Demo</b>	<b>RT-351</b>	<b>50/20</b>	<b>4.96</b>	<b>27.17</b>	<b>25335</b>	<b>42160</b>	<b>16825</b>	<b>1.66</b>
<b>L. check</b>	<b>-</b>	<b>-</b>	<b>3.90</b>	<b>-</b>	<b>23750</b>	<b>33150</b>	<b>9400</b>	<b>1.39</b>

### **Technology demonstrated:**

Improved variety (RT 351)  
Balanced use of fertilizer(37.5 kg N/ ha.)  
Management of Bihar Hairy Caterpillar(Quinalphos@1 lt./ha)

### **Feedback:**

Variety RT-351 perform better  
Infestation of Bihar hairy caterpillar was reported

## RESULT OF FLD CLUSTER BEAN KHARIF, 2019

Previous Crop	<b>- Wheat</b>	Irrigated/rainfed	<b>- Irrigated</b>
Soil Type	<b>-Loamy sand</b>	Seasonal rainfall (mm)	<b>- 350.7(June-Oct)</b>
Soil status	<b>- N P K L M M</b>	No. of rainy days	<b>- 40</b>

  

Particulars	variety	No. of demo/ area (ha.)	Average yield (qt/ha.)	% Increase in yield	Average cost of cultivation (Rs./ha.)	Average Gross Return (Rs./ha.)	Net return (Rs./ha.)	BC ratio
<b>Demo</b>	<b>HG-2-20</b>	<b>10/4</b>	<b>11.50</b>	<b>27.78</b>	<b>25630</b>	<b>43700</b>	<b>18070</b>	<b>1.71</b>
<b>L. check</b>	<b>-</b>	<b>-</b>	<b>9.00</b>	<b>-</b>	<b>23680</b>	<b>34200</b>	<b>10520</b>	<b>1.44</b>

### **Technology demonstrated:**

Improved variety HG-2-20  
 Seed treatment with 6 g streptpcycline+6kg seed+6lt. Water for 25-30 min.  
 Balanced use of fertilizer (20kgN+40kgP<sub>2</sub>O<sub>5</sub>+20kg. S/ha+ Rhyzobium+PSB)

### **Feedback:**

variety performed better in yield  
 Seed treatment managed the bacterial leaf blight

## RESULTS OF CFLD CHICK PEA RABI, 2019-20

Previous Crop	<b>-Bajra</b>	Irrigated/rainfed	<b>- Irrigated</b>
Soil Type	<b>-Sandy Loam</b>	Seasonal rainfall (mm)	<b>- 119(Oct-March)</b>
Soil status	<b>- N P K L M M</b>	No. of rainy days	<b>- 18</b>

Particulars	variety	No. of demo/ area (ha.)	Average yield (qt/ha.)	% Increase in yield	Average cost of cultivation (Rs./ha.)	Average Gross Return (Rs./ha.)	Net return (Rs./ha.)	BC ratio
<b>Demo</b>	<b>CSJ-515</b>	<b>75/30</b>	<b>9.23</b>	<b>23.06</b>	<b>30440</b>	<b>40612</b>	<b>10172</b>	<b>1.334</b>
<b>L. check</b>	<b>-</b>	<b>-</b>	<b>7.50</b>	<b>-</b>	<b>27089</b>	<b>33000</b>	<b>5911</b>	<b>1.22</b>

### **Technology demonstrated:**

Improved variety CSJ-515  
 Seed treatment with Bavistin (2.5 g/kg seed)+Chlorpyriphos(15ml/kg seed)  
 Balanced use of fertilizer (40kg. P<sub>2</sub>O<sub>5</sub>+25kg ZnSO<sub>4</sub>/ha +Biofertilizer)  
 Podborer management (Quinalphos@1 lt./ha)

### **Feedback:**

Very low incidence wilt diseases was reported  
 More no. of seeds per pod was observed by the farmers  
 Very good variety with more branches per plant in comparison of check

## RESULTS OF CFLD MUSTARD RABI, 2019-2020

<b>Previous Crop</b>	<b>-Bajra</b>	<b>Irrigated/rainfed</b>	<b>- Irrigated</b>
<b>Soil Type</b>	<b>-Loamy sand</b>	<b>Seasonal rainfall (mm)</b>	<b>- 119(Oct-March)</b>
<b>Soil status</b>	<b>- N P K L M M</b>	<b>No. of rainy days</b>	<b>- 18</b>

Particulars	Variety	No. of demo/ Area (ha.)	Average yield (qt/ha.)	% Increase in yield	Average cost of cultivation (Rs./ha.)	Average Gross Return (Rs./ha.)	Net return (Rs./ha.)	BC ratio
<b>Demo</b>	<b>DRMRIJ-31</b>	<b>100/40</b>	<b>23.47</b>	<b>17.35</b>	<b>37729</b>	<b>103855</b>	<b>66126</b>	<b>2.75</b>
<b>L. check</b>	<b>-</b>	<b>-</b>	<b>20.00</b>	<b>-</b>	<b>34572</b>	<b>88500</b>	<b>53928</b>	<b>2.56</b>

### **Technology demonstrated:**

Improved variety DRMRIJ-31  
 Seed Treatment with Bavistin @2g/kg seed  
 Balanced use of fertilizer (80 kg N+30kg. P<sub>2</sub>O<sub>5</sub>+20kg K<sub>2</sub>O+25kg ZnSO<sub>4</sub>+40kg S/ha)  
 Painted bug management by Malathion@2ml/lt. water  
 Collar rot management by Bavistin (0.1%) at 45 & 65 DAS

### **Feedback:**

Incidence of stem rot diseases was less in comparison to local check variety  
 No shattering @ harvesting  
 No. of Siliqua & No. of branches per plant more

# RESULTS OF FLD WHEAT RABI, 2019-2020

<b>Previous Crop</b>	<b>-Bajra</b>	<b>Irrigated/rainfed</b>	<b>- Irrigated</b>
<b>Soil Type</b>	<b>-Loamy sand</b>	<b>Seasonal rainfall (mm)</b>	<b>- 124.50(Nov-April)</b>
<b>Soil status</b>	<b>- N P K L M M</b>	<b>No. of rainy days</b>	<b>- 20</b>

Particulars	Variety	No. of demo/Area (ha.)	Average yield (qt/ha.)	% Increase in yield	Average cost of cultivation (Rs./ha.)	Average Gross Return (Rs./ha.)	Net return (Rs./ha.)	BC ratio
<b>Demo</b>	<b>HD-2967</b>	<b>26/10.4</b>	<b>56.25</b>	<b>6.63</b>	<b>54595</b>	<b>133406</b>	<b>78811</b>	<b>2.44</b>
<b>L. check</b>	<b>-</b>	<b>-</b>	<b>52.75</b>	<b>-</b>	<b>53265</b>	<b>124919</b>	<b>71654</b>	<b>2.34</b>

### **Technology demonstrated:**

Improved variety HD-2967  
 Seed treatment with Vitavax@1g and [Chloropyriphos 1.5](#) ml/kg seed  
 Balance use of fertilizer (150kg N+60kgP<sub>2</sub>O<sub>5</sub>+30kgK<sub>2</sub>O+25kg ZnSO<sub>4</sub>+Biotika)  
 Weed management by Algrip @20g/ha

### **Feedback:**

This variety performed excellent in terms of growth & yield

## RESULTS OF FLD BARLEY RABI, 2019-2020

Previous Crop	<b>-Bajra</b>	Irrigated/rainfed	<b>- Irrigated</b>
Soil Type	<b>-Loamy sand</b>	Seasonal rainfall (mm)	<b>- 124.50(Nov-April)</b>
Soil status	<b>- N P K L M M</b>	No. of rainy days	<b>- 20</b>

Particulars	Variety	No. of demo/Ar ea (ha.)	Average yield (qt/ha.)	% Increase in yield	Average cost of cultivation (Rs./ha.)	Average Gross Return (Rs./ha.)	Net return (Rs./ha.)	BC ratio
<b>Demo</b>	<b>RD-2907</b>	<b>12/4.8</b>	<b>48.75</b>	<b>7.73</b>	<b>43520</b>	<b>95156</b>	<b>51636</b>	<b>2.19</b>
<b>L. check</b>	<b>-</b>	<b>-</b>	<b>45.25</b>	<b>-</b>	<b>41715</b>	<b>88244</b>	<b>46529</b>	<b>2.12</b>

### **Technology demonstrated:**

Improved variety RD-2907  
 Seed treatment with Bavistin 2g and Chloropyriphos 6 ml/kg seed  
 Balance use of fertilizer (60kg N+30kg P<sub>2</sub>O<sub>5</sub>+154 kg K<sub>2</sub>O+25 kg ZnSO<sub>4</sub>)

### **Feedback:**

Farmers were satisfied with performance of this variety

## RESULTS OF FLD MARIGOLD KHARIF, 2019-20

<b>Previous Crop</b>	<b>-Mustard, Wheat</b>	<b>Irrigated/rainfed</b>	<b>-Irrigated</b>
<b>Soil Type</b>	<b>-Loamy sand</b>	<b>Seasonal rainfall (mm)</b>	<b>-317.7(July-Nov)</b>
<b>Soil status</b>	<b>- N P K L M M</b>	<b>No. of rainy days</b>	<b>-35</b>

Particulars	Variety	No. of demo/Ar ea (ha.)	Average yield (qt/ha.)	% Increase in yield	Average cost of cultivation (Rs./ha.)	Average Gross Return (Rs./ha.)	Net return (Rs./ha.)	BC ratio
<b>Demo</b>	<b>Pusa Narangi</b>	<b>10/2.0</b>	<b>195</b>	<b>8.33</b>	<b>75000</b>	<b>585000</b>	<b>510000</b>	<b>7.80</b>
<b>L. check</b>	<b>-</b>	<b>-</b>	<b>180</b>	<b>-</b>	<b>75000</b>	<b>540000</b>	<b>465000</b>	<b>7.20</b>

### **Technology demonstrated:**

Improved variety Pusa Narangi  
 Balance use of fertilizer (120 kg N+80 kg P<sub>2</sub>O<sub>5</sub>+ 80 kg K<sub>2</sub>O/ha.)  
 Pinching of plants after 25-30 days of transplanting  
 Management of blight by spraying mancozeb (0.2%)

### **Feedback:**

Variety performed better in respect to attractive colour , more branches and flowers per plant  
 Incidence of blight diseases was less



## RESULTS OF FLD CARROT RABI, 2019-20

Previous Crop	<b>- Okra</b>	Irrigated/rainfed	<b>-Irrigated</b>
Soil Type	<b>-Loamy sand</b>	Seasonal rainfall (mm)	<b>-72.6 (Sept.-Jan.)</b>
Soil status	<b>- N P K L M M</b>	No. of rainy days	<b>-16</b>

Particulars	Variety	No. of demo/ Area (ha.)	Average yield (qt/ha.)	% Increase in yield	Average cost of cultivation (Rs./ha.)	Average Gross Return (Rs./ha.)	Net return (Rs./ha.)	BC ratio
<b>Demo</b>	<b>Pusa Rudhira</b>	<b>10/ 2.0</b>	<b>315</b>	<b>12.5</b>	<b>150000</b>	<b>472500</b>	<b>322500</b>	<b>3.15</b>
<b>L. check</b>	<b>-</b>	<b>-</b>	<b>280</b>	<b>-</b>	<b>140000</b>	<b>420000</b>	<b>280000</b>	<b>3.0</b>

### **Technology demonstrated:**

**Improved variety Pusa Rudhira**  
**Early sowing (August-September)**  
**Ridge sowing method**  
**Balance use of fertilizer- 60kg N+ 30kg P<sub>2</sub>**  
**O<sub>5</sub>+30kgK<sub>2</sub>O +50 ton FYM**

### **Feedback:**

**Variety performed better in comparison to local check**

## RESULTS OF FLD ONION RABI , 2019-20

Previous Crop	<b>-Bottle Gourd</b>	Irrigated/rainfed	<b>- Irrigated</b>
Soil Type	<b>-Loamy sand</b>	Seasonal rainfall (mm)	<b>- 175.1 (Oct-May)</b>
Soil status	<b>- N P K L M M</b>	No. of rainy days	<b>- 29</b>

Particulars	Variety	No. of demo/Area (ha.)	Average yield (qt/ha.)	% Increase in yield	Average cost of cultivation (Rs./ha.)	Average Gross Return (Rs./ha.)	Net return (Rs./ha.)	BC ratio
<b>Demo</b>	<b>ALR</b>	<b>10/2.0</b>	<b>310</b>	<b>12.72</b>	<b>125000</b>	<b>372000</b>	<b>247000</b>	<b>2.98</b>
<b>L. Check</b>	<b>-</b>	<b>-</b>	<b>275</b>	<b>-</b>	<b>120000</b>	<b>330000</b>	<b>210000</b>	<b>2.75</b>

### **Technology demonstrated:**

**Improved variety ALR**

**Balanced use of fertilizer(125 kg N+50 kg P<sub>2</sub>O<sub>5</sub>+25 kg K<sub>2</sub>O+ 50 ton FYM/ha)**

**Management of onion thrips with spray of Fenvelrate 20 EC @ 187.5 ml in 625 lt. water/ha.**

### **Feedback:**

**Uniform bulb size**

**Infestation of onion thrips was less in comparison to local check**

## RESULTS OF FLD OKRA , 2019-20

Previous Crop	<b>-Mustard, Carrot</b>	Irrigated/rainfed	<b>-Irrigated</b>
Soil Type	<b>-Loamy sand</b>	Seasonal rainfall (mm)	<b>-260.3 (April-July)</b>
Soil status	<b>- N P K L M M</b>	No. of rainy days	<b>-27</b>

Particulars	Variety	No. of demo/A rea (ha.)	Average yield (qt/ha.)	% Increase in yield	Average cost of cultivation (Rs./ha.)	Average Gross Return (Rs./ha.)	Net return (Rs./ha.)	BC ratio
<b>Demo</b>	<b>Arka Anamika</b>	<b>10/ 2.0</b>	<b>150</b>	<b>25</b>	<b>60000</b>	<b>225000</b>	<b>165000</b>	<b>3.75</b>
<b>L. check</b>	<b>-</b>	<b>-</b>	<b>120</b>	<b>-</b>	<b>60000</b>	<b>180000</b>	<b>120000</b>	<b>3.0</b>

### **Technology demonstrated:**

Improved variety Arka Anamika  
 Balanced use of fertilizer (100kg N+60 kg P<sub>2</sub>O<sub>5</sub>+50 kg K<sub>2</sub>O+25 ton FYM/ha.)  
 Management of sucking pest with spray of Carbaryl 50 EC 1250 gm. In 750 lt. water

### **Feedback:**

Variety performed better against yellow vein mosaic virus incidence  
 Long duration of flowering (135 days) in comparison to local check variety (125 days)

## FLD ON ZERO TILLAGE IN WHEAT RABI, 2019-2020

<b>Previous Crop</b>	<b>-Cotton</b>	<b>Irrigated/rainfed</b>	<b>- Irrigated</b>
<b>Soil Type</b>	<b>-Loamy sand</b>	<b>Seasonal rainfall (mm)</b>	<b>- 124.50(Nov-April)</b>
<b>Soil status</b>	<b>- N P K L M M</b>	<b>No. of rainy days</b>	<b>- 20</b>

Particulars	Variety	No. of demo/Area (ha.)	Average yield (qt/ha.)	% Increase in yield	Average cost of cultivation (Rs./ha.)	Average Gross Return (Rs./ha.)	Net return (Rs./ha.)	BC ratio
Demo	HD-2967	25/10	50.27	0.72	43875	106370	62495	2.42
L. check	-	-	49.91	-	49125	104477	55352	2.13

**Technology demonstrated:**

**Zero tillage seed cum fertilizer drill**

**Feedback:**

**Less weeds infestation**

**Reduce expenses on diesel and labour**

**Not fallen the crop due to deeper sown of seed as local check**

**Reduces 25% irrigation water requirement**