

## Clustered Frontline Demonstration on Pulses (2017-18)

During the year 2017-18, Cluster Frontline Demonstrations (CFLDs) were implemented in 54 KVKs *i.e* 32 KVKs of Odisha, 22 KVKs of West Bengal according to the agro- ecological condition. The target number of demonstration was 7700 of which 7700 number of demonstration was achieved covering a total area of 3080 ha in Odisha and West Bengal. The number of farmer involved in demonstration in Odisha and West Bengal is 9849. The details of the number of demonstrations and area under CFLD are indicated in the following tables.

### Total area covered under *kharif* Pulses during 2017-18

Sl. No	Crops	State	Target of FLDs approved		Achievements of FLDs	
			No. of Demos	Area (ha)	No. of Demos	Area (ha)
1	Blackgram	West Bengal	850	340	875	350
		Odisha	525	210	550	220
2	Greengram	West Bengal	175	70	125	50
		Odisha	150	60	100	40
3	Pigeonpea	West Bengal	150	60	150	60
		Odisha	625	250	650	260
<b>Total</b>			<b>2475</b>	<b>990</b>	<b>2450</b>	<b>980</b>

### Total area covered under *rabi* Pulses during 2017-18

Sl. No	Crops	State	Target of FLDs approved		Achievements of FLDs	
			No. of Demos	Area (ha)	No. of Demos	Area (ha)
1	Chickpea	West Bengal	275	110	250	100
		Odisha	200	80	275	110
2	Fieldpea	West Bengal	175	70	150	60
		Odisha	150	60	150	60
3	Lentil	West Bengal	1000	400	1000	400
4	Bengal gram	Odisha	425	170	450	180
5	Green gram	Odisha	1825	730	1550	620
<b>Total</b>			<b>4050</b>	<b>1620</b>	<b>3825</b>	<b>1530</b>

### Total area covered under *summer* Pulses during 2017-18

Sl. No	Crops	State	Target of FLDs approved		Achievements of FLDs	
			No. of Demos	Area (ha)	No. of Demos	Area (ha)
1	Black gram	West Bengal	50	20	75	30
2	Green gram	West Bengal	800	320	850	340
		Odisha	325	130	500	200
<b>Total</b>			<b>1175</b>	<b>470</b>	<b>1425</b>	<b>570</b>
<b>Grand Total (<i>kharif</i> + <i>rabi</i> + <i>summer</i>)</b>			<b>7700</b>	<b>3080</b>	<b>7700</b>	<b>3080</b>





## Results:

There is an increase of 30-35 % in pulse production recorded in frontline demonstration on pulses. With the adoption of new technology and the recommended variety

- ❖ During 2017-18 pigeon pea, green gram (*khariif, rabi* and *summer*), black gram (*khariif, rabi* and *summer*), lentil, chick pea, field pea were demonstrated under CFLD in 32 KVKs of Odisha and 22 KVKs West Bengal covering three seasons (*khariif, rabi* and *summer*).
- ❖ *Khariif* pulses (pigeon pea, black gram and green gram) yield 32-35 % higher yield with application of technologies like seed treatment with bio fertilizers and chemicals, soil test based fertiliser application, use of micronutrients and plant protection chemicals.
- ❖ Lentil yield 30-32% higher due to seed treatment with bio fertiliser, application of micronutrient and plant protection chemicals
- ❖ In chickpea it was observed that application of micronutrients spray increase yield up to 40-42%.
- ❖ In field pea technologies like seed treatment (chemical & bio fertilisers), micronutrients spray, recommended doses of fertiliser and plant protection chemical increases the yield by 50-55% in Odisha.
- ❖ In green gram & black gram (*rabi* and *summer*), *IPM 02-14* variety of green gram increases the yield by 30-35% by following the improved practice of seed treatment, line sowing, weed management and need based plant protection chemicals.





