

Clustered Frontline Demonstration on Pulses (2016-17)

Kharif Pulse: In CFLD on pulse crops during *kharif* 2016, pigeon pea, black gram, green gram and horse gram were taken up for demonstration as per the communication received from DAC&FW. Altogether 2130 ha was allotted for *kharif* pulses of which 1946 ha could be finally brought under demonstration programme. All the four crops except horse gram were demonstrated in Bihar, Jharkhand and West Bengal and horse gram was demonstrated only in Jharkhand. Performance analysis of individual pulse crop indicates that in pigeon pea, 40 to 44 percent increase in average yield under demonstration was recorded in the three states. In black gram, no demonstration was conducted in Bihar though the KVKs of Jharkhand and West Bengal brought 430 ha under CFLD programme. In respect of yield enhancement, the KVKs of Jharkhand reported as average increase of demonstration yield to the extent of 45.45 per cent whereas it was 41.27 per cent in respect of KVKs of West Bengal. In green gram, average increase in demonstration yield was highest in Bihar (57.97%) followed by Jharkhand (45.79%) and West Bengal (38.0%). In horse gram, an area of 90.0 ha was brought under the CFLD programme by the KVKs of Jharkhand. The increase in average demonstration yield over local check was 29.73 per cent. The details are given in Table 1.

Table 1: Cluster Frontline Demonstration on *kharif* Pulses during 2016-17

S I. No	Crops	State	Target of FLD Approved		Achievement of FLD		Average yield (q/ha)		yield increase (%)	Difference of yield between demo and local (q/ha)
			No of Demonstration	Area (in ha)	No of Demonstration	Achievement Area (in ha)	Demo	Local		
1	Pigeon pea	Bihar	1650	660	1553	621	15.75	11.15	41.26	4.60
		Jharkhand	1400	560	1388	555	12.80	8.88	44.14	3.92
		West Bengal	200	80	172	80	10.64	7.60	40.00	3.04
2	Black gram	Bihar	125	50	0	0	0	0	0.00	0.00
		Jharkhand	500	200	500	200	9.92	6.82	45.45	3.10
		West Bengal	575	230	611	230	8.66	6.13	41.27	2.53
3	Green gram	Bihar	125	50	25	10	10.90	6.90	57.97	4.00
		Jharkhand	275	110	275	110	9.01	6.18	45.79	2.83
		West Bengal	200	80	128	50	6.06	4.39	38.04	1.67
4	Horse gram	Jharkhand	275	110	225	90	7.20	5.55	29.73	1.65
Total			5325	2130	4877	1946				

Rabi Pulse: In *rabi* 2016-17, lentil, chick pea and field pea were brought under clustered demonstration programme by the KVKs of Bihar, Jharkhand and West Bengal to cover an area of 3150.0 ha. However, lentil was demonstrated in Bihar and West Bengal only. The performance of demonstration in lentil shows that 40.30 per cent average increase was recorded in Bihar whereas it was 29.60 per cent in West Bengal. In chick pea, the KVKs of West Bengal recorded an average

increase in yield to the extent of 45.99 per cent against 40.79 per cent in Jharkhand and 39.60 per cent in Bihar. Another pulse crop, field pea taken up for demonstration produced 37 to 41 per cent higher yield in all the three states. The details are given in Table 2.

Table 2: Cluster Frontline Demonstration on *rabi* Pulses during 2016-17

Sl. No	Crops	State	Target of FLD Approved		Achievement of FLD		Average yield (q/ha)		yield increase (%)	Difference of yield between demo and local (q/ha)
			No of Demonstration	Area (in ha)	No of Demonstration	Achievement Area (in ha)	Demo	Local		
1	Lentil	Bihar	2650	1060	2974	1189.75	13.89	9.90	40.30	3.99
		Jharkhand	0	0	0	0	0.00	0.00	0.00	0.00
		West Bengal	875	350	825	330	9.72	7.50	29.60	2.22
2	Chick pea	Bihar	1450	580	1316	526.25	12.41	8.89	39.60	3.52
		Jharkhand	1175	470	1150	460	12.46	8.85	40.79	3.61
		West Bengal	225	90	200	80	9.65	6.61	45.99	3.04
3	Field pea	Bihar	925	370	626	250.25	12.49	9.02	38.47	3.47
		Jharkhand	225	90	200	80	13.29	9.42	41.08	3.87
		West Bengal	350	140	350	140	12.15	8.88	36.82	3.27
Total			7875	3150	7641	3056.25				

Summer Pulse: Clustered frontline demonstration was also taken by the KVKs of Bihar, Jharkhand and West Bengal on green gram and black gram to cover an area of 1380.0 ha against the target of 1390.0 ha. In green gram, highest area was covered by KVKs of Bihar (460.0 ha) whereas in Jharkhand, 38.0 ha was brought under demonstration and 34.0 ha in West Bengal. In black gram, 200.0 ha was brought under demonstration programme in this zone of which 130.0 ha in Jharkhand, 40.0 ha in Bihar and 30.0 ha in West Bengal. The results of the demonstration are awaited till the compilation of report. However, the details of target and achievement in terms of area allotment and crop-wise/state-wise distribution of area are given at Table 3.

Table 3: Cluster Frontline Demonstration on *summer Pulses* during 2016-17

Name of Crop	State	Target of FLD approved		Achievement of FLD	
		No. of Demo	Area (ha)	No. of Demo	Area (ha)
Green Gram	Bihar	1175	470	1150	460
	Jharkhand	975	390	950	380
	West Bengal	825	330	850	340
Total		2975	1190	2950	1180
Black Gram	Bihar	100	40	100	40
	Jharkhand	325	130	325	130
	West Bengal	75	30	75	30
Total		500	200	500	200
Grand Total		3475	1390	3450	1380

