

Clustered Frontline Demonstration on Pulses (2021-22)

Cluster Frontline Demonstration (CFLDs) are demonstrated for the production potential of newly released technologies on the farmers' fields at a different location in a given farming system and organized farming and extension activities for farmer and extension workers for the dissemination of various technologies. The CFLD on Pulses programme during *kharif* 2022, pigeon pea, black gram, green gram were taken up for demonstration as per the communication received from DA & FW, New Delhi. Altogether 530 ha were allotted for *kharif* pulses out of which 530 ha could be finally brought under demonstration programme in Odisha and West Bengal. A total of 1325 demonstrations were conducted to cover 530 ha area in these two states. The varieties like *PRG 176 (Ujwala)*, *LRG-52* and *LRG-41* were in pigeon pea; *PU 31*, *RU 03-04* and *WBU 109* in black gram and *IPM -02-03*, *IPM-02-14*, *SML-668* and *Sukumari* in green gram was demonstration in 2021-22. Recent technologies like to seed treatment, line sowing, integrated nutrient management, micronutrients like Zn & S application, use of herbicide, integrated pest management were demonstrated in farmers' field for these demonstrations. Performance analysis of individual pulse crop indicates that in pigeon pea resulted 38 per cent increase in average yield increase in Odisha and 33.94 per cent in West Bengal. In West Bengal, black gram was covered in large area of 230 ha because of its popularity. Increase in average yield of black gram in West Bengal was 33.4 per cent. The average increase of demonstrated yield of black gram was of 36 per cent Odisha. In green gram, the average increase in demonstration yield was 42.6 % in West Bengal whereas was 38.49 per cent in Odisha. The details are given in table below.

Cluster Frontline Demonstration on *kharif* Pulses during 2021-22

Sl. No.	Crop	State	Target of FLDs		Achievements of FLDs		Yield (q/ha)		Yield increase (%)	Difference between demon and local (q/ha)
			No. of Demos	Area (ha)	No. of Demos	Area (ha)	Demo	Local		
1	Pigeon pea	Odisha	375	150	375	150	11.88	8.61	38.01	3.27
		West Bengal	75	30	75	30	14.6	10.9	33.94	3.70
2	Green gram	Odisha	100	40	100	40	6.33	5.07	25.0	1.27
		West Bengal	75	30	75	30	9.35	6.56	42.60	2.79
3	Black gram	Odisha	125	50	75	50	7.22	5.3	36.16	1.92
		West Bengal	575	230	575	230	9.93	7.17	38.49	2.76
Total			1325	530	1325	530				



In *summer* season, green gram is main pulse crop grown in West Bengal. A total area of 100.5 ha (100 ha in West Bengal and 0.5 ha in A&N Islands) were covered by these two states in summer season. The *summer* black gram was demonstrated in 50 ha area in West Bengal.

Cluster Frontline Demonstration on *summer* Pulses during 2022

Sl. No.	Crop	State	Target of FLDs		Achievements of FLDs		Yield (q/ha)		Yield increase (%)	Difference between demon and local (q/ha)
			No. of Demos	Area (ha)	No. of Demos	Area (ha)	Demo	local		
1	Green gram	West Bengal	250	100	250	100	11.30	7.84	44.15	4.94
		A & N Islands	50	20	1	0.5	2.15			
2	Black gram	West Bengal	125	50	125	50	12.78	8.73	46.39	4.05
		A & N Islands	25	10	0	0				
Total			450	180	376	150.5				

