

Cluster Frontline Demonstrations on Oilseeds (2018-19)

Cluster Frontline Demonstration was conducted on Oilseed crops during *kharif*, *rabi* and *summer* of 2018-19 by the KVKs of Zone V. In *kharif*, groundnut, sesame, soybean and niger were demonstrated in 610 ha. Groundnut was demonstrated in Odisha and West Bengal for an area of 370 ha during Kharif. Groundnut has emerged as a leading oilseed crop in Odisha and West Bengal with a boost from improved varieties like Devi (*ICGV 91114*), *Smrut*, *TAG 24*, *TG51* and *TG-37A* and technologies like seed treatment, line sowing, IPM and INM. In Odisha during kharif groundnut CFLD demonstration it was observed that the average demonstrated yield was 32.32% more than local check whereas in West Bengal it is 30.85%. CFLD on sesame was covered an area of 160 ha in Odisha and 30 ha in West Bengal during kharif season and the increased yield percentage of these states are 35.97 and 35.28 respectively. Another oilseed crop Niger was demonstrated in two KVKs of Odisha in 40 ha area. The increase average demonstrated yield was 43.44 percent. Soybean is one of the kharif oilseeds crop which was demonstrated only in West Bengal in 10 ha area with 26.98% yield increased.

Cluster Frontline Demonstration on *kharif* Oilseeds during 2018

Name of crop	State	Target of FLD Approved		Achievement of FLD		Average Yield		Increase %	Diff in yield (q/ha)
		No. of Demo.	Area (in ha)	No. of Demo.	Area (in ha)	Demo field	Local		
Groundnut	Odisha	725	290	725	290	16.54	12.5	32.32	4.04
	West Bengal	200	80	200	80	19.68	15.04	30.85	4.64
	Total	925	370	925	370				
Sesame	Odisha	400	160	400	160	6.35	4.67	35.97	1.68
	West Bengal	75	30	75	30	9.74	7.2	35.28	2.54
	Total	475	190	475	190				
Niger	Odisha	100	40	100	40	4.92	3.43	43.44	1.49
	Total	100	40	100	40				
Soybean	West Bengal	25	10	25	10	17.65	13.9	26.98	3.75
	Total	25	10	25	10				
	Grand Total	1525	610	1525	610				



In *rabi* 2018-19, the major oilseeds crops are mustard, groundnut, sunflower and linseed which were demonstrated by the KVKs West Bengal in an area of 455 ha. There was no allotment of area for KVKs of Odisha. In West Bengal mustard varieties namely *NC-1*, *Keshari*, *B-9*, *JD-6*, *YSH 0401*, *Pioneer 45S35* etc were demonstrated by 17 KVKs. An area of 280 ha was covered with demonstration with participating 1052 farmers. It recorded an average yield increase of 34.72 percent then compared to local check. The yield increase in case of *rabi* groundnut was in the range of 30-35% whereas for sunflower the average yield increase was 31.16 %. Linseed is an important oilseed crop in *rabi* season was also demonstrated under CFLD by 7 KVKs in West Bengal covering an area of 100 ha with an average yield increase of 48.56 percent. The major technologies demonstrated on the farmer's field were the new varieties of sunflower namely *KA501* and *KBSH-51* and linseed varieties namely *Sekhar* and *Sabour Tisi*. Application of secondary nutrient like sulphur, spray of micronutrient like Boron and need based plant protection chemical.





Cluster Frontline Demonstration on *rabi* Oilseeds during 2018-19

Name of crop	State	Target of FLD Approved		Achievement of FLD		Average Yield		Increase %	Diff in yield (q/ha)
		No. of Demo.	Area (in ha)	No. of Demo.	Area (in ha)	Demo field	Local		
Groundnut	West Bengal	110	45	110	45	24.5	18.38	33.28	6.12
	Total	110	45	110	45				
Sunflower	West Bengal	75	30	75	30	17.47	13.32	31.16	4.15
	Total	75	30	75	30				
Mustard	West Bengal	700	280	700	280	12.34	9.16	34.72	3.18
	Total	700	280	700	280				
Linseed	West Bengal	250	100	250	100	9.27	6.24	48.56	3.03
	Total	250	100	250	100				
	Grand Total	1135	455	1135	455				

The CFLD on Groundnut, Sesame and Sunflower were conducted in summer 2018-19. During summer, 150 demonstrations on various oilseeds crops in area 60 ha were allotted in Odisha. The demonstration was conducted in an area of 20, 10 & 30 for groundnut, sesame and sunflower respectively. Various improved technologies followed are line sowing, chemical seed treatment (Carboxin + Thinam), soil test based fertilizer application, application of Phospho-gypsum and need based plant protection measures. These technologies augmented the average yield by 19-25 percent. There has on demonstration conducted in West Bengal during summer 2018-19.

Cluster Frontline Demonstration on *summer* Oilseeds during 2019

Name of crop	State	Target of FLD Approved		Achievement of FLD		Average Yield		Increase %	Diff in yield (q/ha)
		No. of Demo.	Area (in ha)	No. of Demo.	Area (in ha)	Demo field	Local		
Groundnut	Odisha	250	100	50	20	20.9	16.6	25.87	4.3
	Total	250	100	50	20				
Sesame	Odisha	75	30	25	10	2.42	2.12	14.15	0.3
	Total	75	30	25	10				
Sunflower	Odisha	175	70	75	30	25.20	21.10	19.43	4.10
	Total	175	70	75	30				
Grand Total		500	200	150	60				

