

## Cluster Frontline Demonstration on Oilseeds (2016-17)

With a view to bring large areas of rice fallow under frontline demonstrations and enhance the production as well as productivity of oilseed crops, the ambitious programme of Department of Agriculture & Cooperation and Farmers Welfare, Govt. of India has been implemented during *kharif* 2016 and *rabi* 2016-17 through the KVKs of Bihar, Jharkhand and West Bengal. In order to achieve the total target earmarked by DAC&FW, a series of workshop was conducted at ICAR-ATARI, Kolkata, Bihar and Jharkhand to enable the KVKs to cover as much area as possible both in pulse and oilseed crops. However, due to certain limiting factors, the entire targeted area could not be brought under clustered frontline demonstration programme.

Clustered frontline demonstration was also conducted in oilseed crops both in *kharif* 2016, and *rabi* and *summer* 2016-17 by the KVKs of this zone. In *kharif*, ground nut, sesame, niger and soybean were demonstrated in 1116.8 ha against the allotted target of 1540.0 ha. Ground nut, which was demonstrated in Jharkhand and West Bengal for an area of 410.0 ha produced 40.48 per cent more yield over local check but it was only 14.5 per cent in respect of KVKs of West Bengal. Sesame covered an area of 438.8 ha in all the states and the increase in yield was in the range of 31 to 42 per cent, highest increase being recorded in Jharkhand. Another oilseed crop, niger was demonstrated in Bihar and Jharkhand to cover an area of 250.0 ha. The increase in average demonstration yield was in the range of 36 to 41 per cent. The KVKs of Bihar conducted clustered frontline demonstration programme in soybean for an area of 20.0 ha. An average increase in demonstration yield of 16.67 per cent was recorded by the KVKs. The details are given in Table.

### Cluster Frontline Demonstration on Kharif Oilseed during 2016

Name of crop	State	Target of FLD Approved		Achievement of FLD		Average Yield	Local	Increase %	Diff in yield (q/ha)
		No. of Demo.	Area (in ha)	No. of Demo.	Area (in ha)	Demo field			
Groundnut	Jharkhand	825	330	794	290	11.85	8.23	40.48	3.62
	West Bengal	675	270	472	120	7.6	6.08	14.50	1.52
	Total	1500	600	1266	410				
Sesame	Bihar	550	220	273	111.8	4.675	3.4	35.73	1.27
	Jharkhand	600	240	633	285	4.43	3.10	42.17	1.32
	West Bengal	550	220	119	40	9.36	7.13	31.33	2.24
	Total	1700	680	1025	436.8				
Niger	Bihar	75	30	67	30	3.17	2.25	40.89	0.92
	Jharkhand	525	210	550	220	5.15	3.8	36.43	1.35
	Total	600	240	617	250				
Soybean	Bihar	50	20	50	20	21.7	18.6	16.67	3.1

	Total	50	20	50	20				
	<b>Grand Total</b>	<b>3850</b>	<b>1540</b>	<b>2958</b>	<b>1116.8</b>				



In *rabi* 2016-17, rapeseed and mustard and linseed were demonstrated by the KVKs of all three states for an area of 2812.5 ha against the target of 3000.0 ha. In rapeseed and mustard, the KVKs of Jharkhand reported 57.17 per cent increase in demonstration yield over local check against 39.38 per cent of Bihar and 37.38 per cent of West Bengal.

In linseed, the demonstration programme in clustered mode produced 27 to 35 per cent higher yield over the local check. The KVKs of Jharkhand recorded the highest increase of 35.16 per cent whereas it was 28.27 per cent in West Bengal and 27.41 per cent in Bihar.

#### Cluster Frontline Demonstration on *rabi* Oilseed during 2016-17

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		
Rapeseed & Mustard	Bihar	2550	1020	2416	1025	12.86	9.2	39.38	3.65
	Jharkhand	1650	660	1706	700	10.32	6.69	57.17	3.63
	West Bengal	1275	510	1874	550	12.29	8.99	37.38	3.30
	Total	5475	2190	5996	2275				
Linseed	Bihar	1075	430	674	247.5	7.13	5.15	27.41	1.98
	Jharkhand	425	170	353	150	6.31	4.52	35.16	1.79
	West Bengal	525	210	463	140	6.25	4.72	28.27	1.52
	Total	2025	810	1490	537.5				
	<b>Grand Total</b>	<b>7500</b>	<b>3000</b>	<b>7486</b>	<b>28.12.5</b>				



Clustered frontline demonstration was also conducted during summer 2017 for an area of 1120.0 ha against the allotted area of 640.0 ha. The crops identified were sesame, sunflower and ground nut. As the results of the demonstration are awaited, performance appraisal could not be taken up. However, the state-wise target and actual conduct of demonstration are given at.

### Cluster Frontline Demonstration on *summer* Oilseed during 2017

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		
Sesame	Bihar	325	130	325	130	5.6	4.5	24.44	1.1
	Jharkhand	100	40	82	40	6.8	4.9	38.77	1.9
	West Bengal	550	220	1097	220	12.75	11.3	12.83	1.45
	Total	975	390	1504	390				
Groundnut	West Bengal	0	0	452	180	24.1	21.3	13.14	2.8
	Total	0	0	452	180	24.1	21.3	13.14	2.8
Sunflower	Bihar	625	260	764	330	12.06	9.78	23.31	2.28
	Total	625	260	764	330	12.06	9.78	23.31	2.28
	Grand Total	1600	640	2720	900				

