

Cluster FLDs under National Mission on Oilseed and Oil Palm (NMOOP) and National Food Security Mission (NFSM) during 2018-19

Under ICAR-ATARI Zone-VII, there were 23 KVKs selected for implementation of Cluster Demonstration programme. These KVKs conducted Cluster frontline demonstration (FLDs) to demonstrate the production potential of newly released technologies on the farmer's fields at different location in a given farming system and organized farming and extension activities for farmer and extension workers for dissemination of various technologies.

Achievements during 2018-19

During the year 2018-19, a total of **4272** nos. of Cluster Frontline Demonstrations were conducted on Oilseeds and Pulses in 5 North-eastern States of Manipur, Meghalaya, Nagaland, Mizoram and Tripura covering **1889.4** hectares (**Table-1**).

- The total area covered by Pulses (Kharif & Rabi Season 2018-19) was **871.4** ha through **1944** demonstrations. In Oilseeds, total area covered (Kharif & Rabi Season 2018-19) was **1018** ha through **2328** demonstration.
- Cluster Frontline Demonstration was conducted in different Pulses crops like Blackgram (PU-31, Tripura Maskolai), Green gram (IPM-2-3, Tripura Mung 1), Rice Bean (var. local), Rajma (Canadian Red, Local, Utkarsh, Kholar), Lentil (var. HUL-57, WBL 77) and Field Pea (var. Aman, Prakash, Rachna) and Cowpea (Kashi kanchan).
- In Oilseed crops, Cluster Frontline Demonstration was conducted in **Soybean** (var DSb 19, JS-97-52, JS-335, JS-9305, RVS 2001-04, JS 95-60), **Sesame** (var. Chhibung, ST-1683, Tripura siphing), **Groundnut** (var. ICGS-76, GPBD-4, ICGS-75, G-2, TG-38, TAG 28), **Rapeseed & Mustard** (var. NRCHB-101, TS-36, TS 38, TS-67, TRC T-1-1-5-1) and **Linseed** (var. T-397, Shardha, Parvati, Ruchi).

Table-1: State-wise Cluster Frontline Demonstration on Pulses & Oilseeds under NFSM & NMOOP 2018-19

State	Area (ha) allocated		Demo allocated (No.)		Area (ha) covered		Demo conducted (No.)	
	Oilseeds	Pulses	Oilseeds	Pulses	Oilseeds	Pulses	Oilseeds	Pulses
Manipur	320	340	800	850	290	310	601	722
Meghalaya	70	70	175	175	70	70	133	140
Mizoram	110	120	275	300	108	81.4	231	134
Nagaland	310	140	775	350	320	140	794	329
Tripura	240	270	600	675	230	270	569	619
Total	1050	940	2625	2350	1018	871.4	2328	1944

Table-2 shows the state of Tripura produced the highest yield level of 8.97 q/ha of **Blackgram** followed by Manipur (8.41 q/ha) and Meghalaya (8.21 q/ha) with the average

yield level of 8.5 q/ha in the zone. In case of **Green gram**, the KVKs in the zone reported yield level of 7.6 q/ha. The table also indicates that highest level of yield (14.50 q/ha) was reported by the state of Nagaland in cultivation of **Rajmah** (var. Canadian Red, Utkarsh, Kholar) with the zonal average yield level of **12.37** q/ha followed by **Fieldpea** with an average yield of **11.45 q/ha** in the zone. **Lentil** (Var. HUL-57, WBL-77) and were reported with average yield level of 8.34 q/ha at zonal level. While **Ricebean** (Var. Local) was demonstrated by the KVKs of Manipur in which they obtained average yield level of **10.52 q/ha** and **Cowpea** (Var. Kashi kanchan) was demonstrated by the KVKs of Tripura with the average yield level of 9 q/ha.



CFLD on Fieldpea at KVK Bishnupur

Table-2: State-wise details of productivity of Pulses Crops under NMOOP during 2018-19

Sl. No.	Name of KVK	Avg. productivity (q/ha) of Pulses Crops						
		Greengram (Tripura Mung 1, IPM- 2-3)	Blackgram (PU-31, Tripura Maskalai 1)	Ricebean (Local)	Rajmah (Canadian Red, Local, Utkarsh, Kholar)	Cowpea (Kashi kanchan)	Fieldpea (Aman, Prakash, Rachna)	Lentil (HUL-57, WBL-77)
1	Manipur	6.70	8.41	10.52	13.72		12.51	8.47
2	Meghalaya		8.21				11.54	
3	Mizoram				13.25		8.85	7.80
4	Nagaland				14.50		11.87	
5	Tripura	8.50	8.97		8.00	9.00	12.48	8.76
Avg. Yield (Zonal)		7.60	8.53	10.52	12.37	9.00	11.45	8.34

In case of Oilseed crops, the **Table-3** indicates that Soybean (Var. DSb 19, JS-97-52, JS-335, JS-9305, RVS 2001-04, JS 95-60) was demonstrated by the selected KVKs in the

states of Manipur, Mizoram and Nagaland in which the highest average yield level of Soybean was recorded in Mizoram with an average yield of 20.5 q/ha followed by Manipur and Nagaland and the average yield zonal level of **Soybean** is 16.27 q/ha. KVKs of Mizoram, Nagaland and Tripura reported the average yield zonal level of 5.95 q/ha in case of **Sesame** (Var. Chhibung, ST-1683, Tripura Siphing). While the average yield zonal level of 16.27 q/ha and 9.07 q/ha were recorded in demonstration of **Groundnut** (Var. ICGS-76, GPBD-4, ICGS-75,G-2, TG-38, TAG 28) and **Rapeseed & Mustard** (Var. NRCHB-101, TS-36 ,TS-38, TS-67,TRC T-1-1-5-1) at zonal level. The **Linseed** (Var.T-397, Sharda, Parvati, Ruchi) was demonstrated by the KVKs of Nagaland only in which 6.98 q/ha was obtained as average yield zonal level.

Table-3: State-wise Productivity of Oilseed crops under NMOOP during 2018-19

Sl. No.	State	Average productivity (q/ha)				
		Soybean (Var. DSb 19, JS-97-52, JS-335,JS-9305, RVS 2001-04, JS 95-60)	Sesame (Var. Chhibung , ST-1683,Tripura Siphing)	Groundnut (Var. ICGS-76, GPBD-4, ICGS-75,G-2, TG-38, TAG 28)	Rapeseed & Mustard (Var. NRCHB-101, TS-36 ,TS 38, TS-67,TRC T-1-1-5-1)	Linseed (Var. T-397, Sharda,Parvati, Ruchi)
1	Manipur	15.65		19.92	8.75	
2	Meghalaya			23.6	9.14	
3	Mizoram	20.5	5.75	15	8.25	
4	Nagaland	12.67	4.5	8.88	7.32	6.98
5	Tripura		7.6	13.93	11.87	
Av. Yield (Zonal)		16.27	5.95	16.27	9.07	6.98



CFLD Mustard demo plot of KVK West Tripura conducted in 2018-19