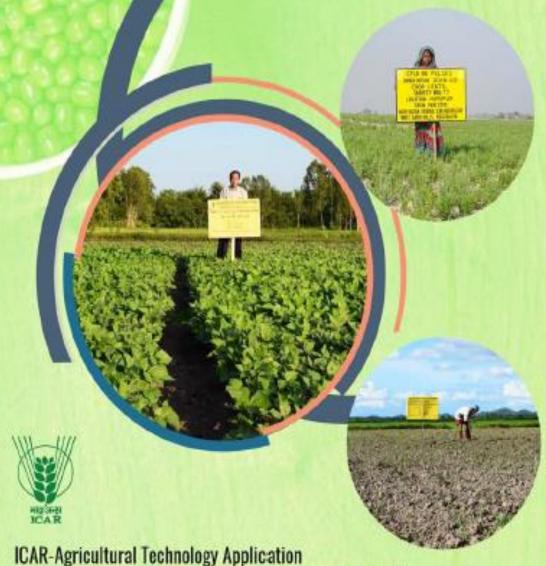
# Pulse Production for Livelihood and Nutritional Security under Cluster Frontline Demonstration (CFLD) Programme (2019-20)

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Research Institute, Zone-VII, Umiam, Meghalaya-793103
(AN ISO 9001-2015 CERTIFIED ORGANIZATION)

# Pulse Production for Livelihood and Nutritional Security under Cluster Frontline Demonstration (CFLD) Programme

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CFLD on lentil (var. HUL-57) at KVK Lawngtlai, Mizoram

## 7.5. Success Stories of Fieldpea (Manipur)

Name of KVK	KVK, Imphal East			
Crop and variety	Field pea variety Aman			
Name of farmer & address	Mr. Brojen Singh, Tiger Camp, Imphal East			
Background information about farmer field	The field is situated at around 20 km from Imphal and total area of the farm is about 6 ha. The farm is an organic farm and the farmer is using only organic inputs for his production system. Seasonal crops like paddy, maize, pulses like blackgram, greengram, beans, cucumber, cabbage, cauliflower are grown from time to time.			
Details of technology demonstrated	Technology Improved cultivation of field pea var. IPF 5-19 (Aman) Duration: 130 days Salient features Lodging resistant because of presence of tendrils, high degree of resistance to powdery mildew diseases, moderately resistant to rust diseases and to pod borer and stem fly incidences. Seeds are round, smooth and white.  Seed rate: 80 kg/ha Seed treatment: Rhizobium 10 ml/kg seed Trichoderma: 10 g/kg seed Yield potential: 15 q/ha (under irrigated condition) Sowing method: Line sowing with straw mulching Spacing: 30 cm × 10 cm			

Institutional involvement

In this district, field pea was not cultivated on large scale but in the past 3-4 years its cultivation has been increasing. It is mainly grown for vegetable purpose, food and feed. The grains are consumed as dal and flour. The field was selected by KVK, Imphal East for taking up demonstration on scientific cultivation of field pea variety Aman on 2 ha area under CFLD pulses during rabi season 2018-19. Training cum input distribution programme was organized at KVK, Imphal East on where the farmer also participated. The farmer was provided 160 kg seed of field pea variety Aman, Rhizobium and Trichoderma for seed treatment. Sowing of the crop was done during 3rd week of November, 2018 after harvest of paddy. Monitoring and diagnostic visits was done by KVK personals during the crop period.

Dr. A.K. Singha, Principal Scientist, ATARI, zone VII visited the Demonstration Field on 22<sup>nd</sup> Feb., 2019 and very impressed by the performance. Farmers' Field day was organized on 25<sup>th</sup> Feb., 2019 to celebrate the success of the demonstrating farmer and also for disseminating the technology to other farmers. The programme was participated by 52 farmers from Tiger camp as well as adjoining villages. During pod formation stage, the crop was attacked by pod borer and aphid and it was managed by Neem based insecticide (Multineem) provided to the farmer from CFLD fund.

The farmer is really very hard working and he was

keen to make the demonstration a success. He sowed the seeds in line as directed and just after sowing was completed, he spread paddy straw for Mulching over the whole field of 2 ha area for retention of moisture as rainfall was not sure during winter months, the region being rainfed. He also procured a mini sprinkler set from State Department of Agriculture under subsidy and irrigated the field 3 times during crop stand when water was most required by the crops. Not only use of Quality Certified Seed and Plant protection measures but also timely technological intervention of the farmer led to success of the demonstration. The farmer obtained the highest yield among all the clusters of CFLD pulses during *rabi* 2018-19.

Success point

#### Farmers' feedback

The variety Aman performs very well; however as compared to the farmer's long preferred variety Rachna, its seed are smaller after drying. Farmers are asking for a better and bolder seed variety so that higher seed/grain yield may be obtained. They also prefer a shorter duration variety that will be more suitable under the water scarcity rainfed situation of the region.

Yield (q/ha)	
<ul> <li>Potential yield of variety</li> </ul>	12.8
- District average (Previous year)	9.7
<ul> <li>State average (Previous year)</li> </ul>	9.4

## Performance of technology vis-à-vis local check (Increase in productivity and returns)

Used practice	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C Ratio
Farmer practices	7.2	35500.00	54000.00	18500.00	1.52
Demonstration	12.8	44800.00	96000.00	51200.00	2.14
% Increase	77				





CFLD on field pea (var. Aman) at KVK Imphal East, Manipur