

## Adoption of improved technologies brought prosperity to the blackgram growers.

### **Situation analysis/Problem statement:**

Blackgram is one among the major pulse crops cultivated in Ariyathur village of Vandavasi block of Thiruvannamalai district during Kharif and Rabi Seasons in an area of 232 ha. The productivity of the crop was low due to less awareness towards high yielding varieties, non availability of quality seeds and non adoption of integrated crop management practices in blackgram. The average yield obtained by farmers was 5.6 qtl/ha which was 37.7 % lower than the potential yield. And the income of the farmers (Rs. 36400/ha) was not satisfactory.

### **Plan, Implementation of activities and Support:**

To address these problems faced by the farmers the KVK Thiruvannamalai had implemented CFLD on blackgram in ariyathur village. The scientists of KVK analyzed the problems of farmers through group meetings in ariyathur village prior to the implementation of cluster Front Line Demonstration programme under National Food Security Mission. The KVK had selected 50 progressive farmers for implementing the cluster front line demonstration programme. The KVK has demonstrated the new high yielding disease resistant black gram variety VBN-8 (8kg/ac).

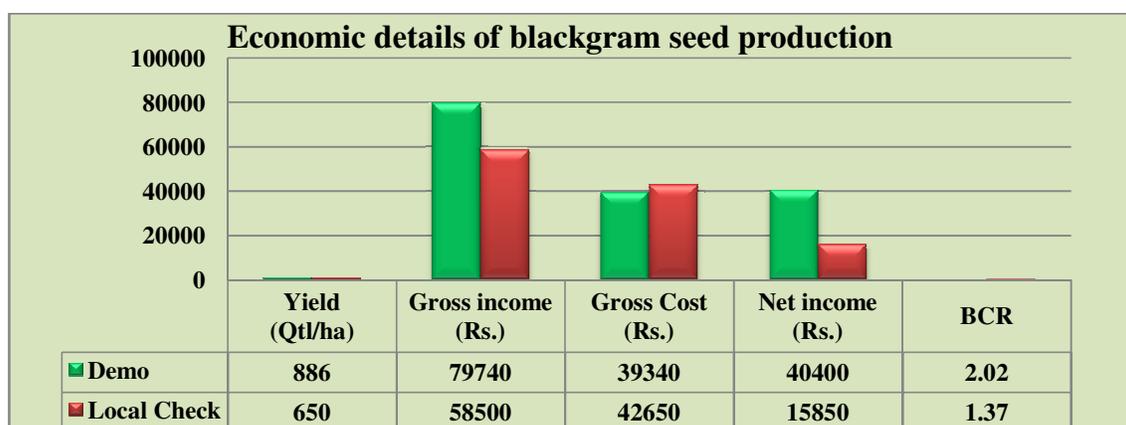


Soil application of bio fertilizer *Rhizobium* and *Phosphobacteria* 1 kg each, soil application of *Trichoderma viride* and *pseudomonas fluorescence* 2 kg each for control the root rot diseases and avoid plant population losses. Foliar application of TNAU pulse wonder (2kg/acres) during the peak flowering and pod formation stage for enhancing the yield and increase the quality and size of blackgram seeds. Demonstration of yellow sticky trap (5 nos/acre) for controlling the sucking pests in blackgram crop. Foliar application of Nuclear Polyhedrosis virus (250 ml/acre) for the control of pod borer damage in black gram crop. All these technologies were demonstrated in an area of 50 ha in Ariyathur village. The details of various activity implemented are detailed hereunder:

Sl. No.	Particulars	Title	Total	No. of participants
1.	Trainings	Integrated Crop Management in blackgram	1	58
		Integrated Pest and Disease Management in blackgram	1	63
2.	Method demonstration	Demonstration of soil sample collection and seed treatment techniques	1	65
		Demonstration of soil application bio control agents	1	67
		Demonstration of Foliar application of TNAU pulse wonder	1	74
3.	Advisories	Filed visit and Advisory services	25	76
4.	literature	Integrated crop management in Blackgram	500	260
5.	Field day	Integrated crop management in blackgram	1	85
6.	Exposure visits	Visit to National Pulses Research centre, Pudukottai	1	20

### Output:

1. The farmers obtained the average yield of 886 kg/ha it was the 26.66% higher than the local check (650 kg/ha).
2. Pest and disease incidence was reduced drastically due to adoption of pest and disease management practices.
3. The average gross income was recorded as Rs.79740/ha and net income was Rs, 40,400/ha.
4. Total quantity of 375 qtl of seeds were sold to others farmers in the locality by the beneficiary farmers.



### Outcome:

The New blackgram variety VBN-8 has spread to the neighboring villages viz., Desur, Mazhaiyur, Thellar, Kondyankuppam, Vazhur, Maruthu, Kizhsembedu, and Venmanthai Village of vandavasi block. In Thiruvannamalai district the variety has spread to more than 15 blocks covering 643 ha in 120 villages. In addition, the seeds were supplied to other districts i.e Vilupuram, Vellore, Kanchipuram, Thiruvallur, Pudukottai, Trichy in Tamilnadu. And Thiruvanathupuram, Palakad districts of Kerala state. Total number of 560 farmers have been cultivating this VRNR variety at present

**Impact:**

After the implementation of various activities by KVK including CFLD programmes in Vandavasi taluk, the farmers are showing real interest in cultivating VBN8 blackgram for the purpose of seeds. The state department of agriculture is procuring seeds from farmers at very good rate. As a result, the farmers are getting very good income and they are spending the income from blackgram seed production for Children's education, Construction of house and used for other farming activities.

More over, with the technical back up of KVK pulse seed clubs are formed in various villages of the district which act as quality seed supply centres. So far, the seed clubs have supplied 375 qtl of quality blackgram seeds.

