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Cluster Front Line Demonstration (CFLD) Provide Pathway for Increasing Farmers Income

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Introduction

India is an agriculture country and about 58 % of people primary source of livelihood for both men and women is agriculture. The farming system includes all components of land such as soil, crops, livestock, water, insects, labour, and other resources. The endowed of various agro climate population explosion to fulfill people need production and productivity of crops must increases. Oilseeds occupy an important position in the agricultural economy of India. The country is the largest producer of oilseeds in the world and contributes 7 per cent of the global vegetable oils production with a 14 per cent share in the area. In terms of acreage, production and economic value, these crops are second only to food grains. The growth in the domestic production of oilseeds has not been able to keep pace with the growth in the demand in the country. Low and unstable yields of most oilseed crops, and uncertainty in returns to investment, which result from the continuing cultivation of oilseeds in rainfed, high risk production environments, are the factors leading to this situation of wide demand-supply gap. The Hingoli district suffers from various natural calamities like climate change, flood, droughts and non-season rainfall and changes in temperature, population explosion, urbanization and fragmented land holding to overcome constraints and provide proper guidance for adoption of technology, improving socio economic and standard of living of farmers cluster frontline demonstration was conducted by Krishi Vigyan Kendra, Hingoli.

Information About Cluster Frontline Demonstration (CFLD)

Cluster Frontline Demonstration (CFLD) under National Food Security Mission - Oilseed (NFSM-Oilseed) is a nation-wide programme initiated by the Ministry of Agriculture and Farmers' Welfare, Government of India to demonstrate newly crop production technologies on various oilseed crops. A unique approach to provide a direct interface between

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researcher and farmers as the former are directly involved in planning, execution and monitoring of the demonstrations for the technologies and get direct feedback from the farmers' field about oilseed production in general and technology being demonstrated in particular.

The Indian Council of Agricultural Research, New Delhi affiliated Krishi Vigyan Kendra, Hingoli conducted Cluster Front Line Demonstration on soybean crop to check production potential of newly released technologies on the farmer's fields at different location in each farming system.

Objective of Programme

Demonstrate new realised crop production technology, its management practices in farmer field under farming & agro climatic situation. When technologies are demonstrating in farmers field subject matter specialist study the numerous factors contributing for higher production in crops as well as constraints in production and provide feedback information to concern research system.

Krishi Vigyan Kendra Initiative

The Tondapur and Sodegav villages of Hingoli district was selected through participatory rural appraisal (PRA) techniques for conduction of CFLD programme. The technology intervention was adoption of modern technology Phule Sangam (KDS-726) variety and integrated crop management during kharif season 2022. The twenty-five farmers from both villages were selected thus, total fifty farmers were selected and improved variety KDS-726 was given to fifty farmers by Krishi Vigyan Kendra, Hingoli . The 06 training programs were conducted for farmers and preparation of extension literature, field visit, field day, technical guidance, advisory services through various social media platform, radio talk on AIR Parbhani was undertaken for creating awareness and effective transfer of technology.

Technology Characteristics

1. **Crop :** Soybean
2. **Variety** Phule Sangam (KDS-726)
3. Developed by **Mahatma Phule Krishi Vidyapeeth, Rahuri** in year 2016
4. **Resistant to Insect/Pest:** Stem Fly and Griddle beetle
5. Post-ripening pods are resistant to cracking, so delay in harvesting does not result in damage from pod cracking and generally large sized grains.
6. A variety suitable for **mechanical harvesting**

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7. Salient feature of variety

Production Capacity: 30 Q/Ha Spacing: 45 x 5

Duration: 98-100 Days Seed required for sowing: 28-30 Kg/Acre

Achievements

The technologies intervention imparted to farmers through cluster front line demonstration is provide seeds of improved variety Phule Sangam (KDS-726), biological seed treatment, nutrient management based on soil testing, use of chemical herbicides, pest, and disease management on basis of economic threshold level. It was revealed that fifty demonstrations conducted in Tondapur & Sodegaon using above technology intervention and harvesting of crop at scheduled time, the average productivity of soybean crop obtained 28.34 qt/ha in both villages.

Due to adoption of technology intervention given by Krishi Vigyan Kendra, Hingoli farmer from sodegaon village Mr. Punjabrao Pundalikrao Nilkanthe obtained 50 qt/ha yield of soybean.

Scientists visit to farmer field.

Conclusion

Hingoli district had maximum area under rainfed condition in such circumstances cluster front line demonstration for soybean crops and technology disseminated through various media platform by KVK, Hingoli with active participation of farmers is economically viable, easy to operate, feasible, having potential to create employment opportunity, increases annual income and improve standard of living of rural families. The programme provides direct

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interface between subject matter specialist and farmers, get direct feedback from the farmers' field about soybean production in general and technology being demonstrated in particular.

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https://www.atarikolkata.org/cfld-on-oilseeds/

Report of Cluster Frontline Demonstrations on Oilseeds during 2019-20 under Promotion of Sustainable Agricultural Practices.