

Popularization of Sesame Variety (GJT-05) through Cluster Front Line Demonstrations in District Amroha of Western Uttar Pradesh Region: Success Story

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Situation analysis/ Problem statements:

Mr. Brijpal Singh, Village: Khajoori, Post: Gajraula, Block: Gajraula, District: Amroha, a farmer who was selected for this demonstration. He was earlier involved with local variety of Sesame T-78. These varieties were low in yield.

Plan, Implement and Support:

KVK Amroha tries to make them aware regarding scientific cultivation of Sesame. That starts from land preparation to harvesting. This KVK has encouraged the farmer for soil testing and on the basis of that farmer was advised for balanced dose of chemical fertilizer with high yielding varieties GJT-05. That was sown on 20/07/2022 with line sowing and fertilizer application was done with basal application in which half dose of nitrogen full dose of SSP and full dose of MOP as recommended. Rest nitrogen used at the time of irrigation/rainfall.

Output:

Mr. Brijpal Singh adopted the balanced dose of chemical, fertilizer (N:P:K:S:20:10:00:30) kg/ha in sesame crop as per suggestion of KVK's scientist for his 0.25 ha land. His local yield was 5.60 qt with recommended technology. His yield increased by 25.33% with yield 7.50 qt. The economical gain in terms of per unit expenditure gross income, net return and BCR are recorded. Rs.24375, Rs 56250, Rs.31875 and 2.31 correspondingly.

Outcome:

Sesame crop is grown as a rainfed crop of the district. KVK Amroha conducted 25 demonstrations in 03 villages during 2022-23 in an area of 10 ha at farmers' field with using HYV GJT-05 and balanced dose of chemical fertilizer (N:P:K:S: 20:10:00:30) kg/ha. This variety has been disseminated in 10 villages of the district in area of approximately 50 ha. The outcome of this demonstration motivated the farming communities to replace their old

varieties, non-descriptive varieties. Mr. Brijpal Singh is very happy on improvement in their income, livelihood and set forth example for others.

Impact:

Mr. Brijpal Singh is becoming one of the progressive and learned farmers for others with regards to popularization of GJT-05. This technology helps him for livelihood, empowerment and make him enthusiastic regards oilseed production. He is one of the progressive farmers after a becoming a part of KVK activities and get their effectiveness for his own development. Mr. Brijpal Singh is very happy with this improved production and management technology and set forth example for other farmers of the district.

Table-01: Background information of Demonstrations.





Name of KVK	KVK, Amroha
Crop and variety name	Sesame variety GJT-5
Name of farmer & Address	Brijpal Singh, Village- Khajoori, Amroha
Background information about farmer field	Using old variety
Details of technology demonstrated	Replacement of Local variety of Sesame by GJT-5 with use of IDM & IPM.
Institutional involvement	Technical guidance & Monitoring
Success point	Use of Sulphur, timely sowing, timely practices & low incidence of Insect-pests & diseases.
Farmer feedback	(i) Grain yield has been increased due to selection of high yielding variety GJT-5. (ii) Uniform maturity and bold grain. (iii) Farmer are convinced to grow quality of seed & low incidence of Insect-pest & diseases.
Yield (q/ha)	
 - Demonstration	7.5
 - Potential yield of variety/technology	12.41
 - District average (Previous year)	6.5
 - State average (Previous year)	6.15

Table-02; Performance of technology vis-a-vis Local check (Increase in productivity and returns):

Specific Technology	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio
Farmer practices	5.6	21375	42000	20625	1.96
Demonstration	7.5	24375	56250	31875	2.31
% Increase	25.33	-	-	-	-

Table-03: Good quality action photographs of technology:



Distribution of sesame variety GJT-5 seeds to the farmers for conducting CLFD on sesame during Kharif-2022



Performance of Sesame crop at farmers field under CFLD on Sesame during Kharif-2022



Organized field day on Sesame under CFLD on Sesame during Kharif-2022

