Success Story 2023-24

Season (Kharif/Rabi/Summer): Kharif 2023

Name of KVK	Hanumangarh-I (Raj.)
Crop and Variety	Sesame and RT-351
Name of farmer & Address	Sh. Hanuman S/o Sh. Roop Ram, 9 AMP Dhani, VPO-Bolawali, Distt.-Hanumangarh (Raj.)
Background information about farmer field	The field is located in Chak 9 AMP of village Bolawali (Sangria tehsil). The soil of the field is sandy loam, whose organic carbon level is low, phosphorus level is medium and potash level is high. Irrigation water sources are canals and tube wells. Based on soil test, pH value of soil is 8.05, Electrical conductivity is 0.231, Organic carbon is 0.310%, Available Phosphorus is 32.83 kg per hectare and Available Potash is 467.44 kg per hectare. Mustard crop was taken in this field last season.
Details of technology demonstrated	Improved variety RT-351, Seed treatment with Carbendazim 35 SD & Imidachloprid 48% FS, Soil treatment with *Trichoderma harzianum*, Soil application of NPK consortia, Basal application of fertilizers & Judicious use of pesticides.
Institutional Involvement	To promote crop diversification in the area, sesame crop was introduced. The existing varieties of sesame were affected by Phyllody disease. Therefore, farmers were not interested in sesame crop. Cluster Frontline Demonstrations were conducted to motivate farmers for sesame cultivation by including the improved sesame variety RT-351, which is developed at Jodhpur and resistant to Phyllody, Leaf curl and Stem & root rot disease and moderately resistant to Cercospora leaf spot & pod borer. Due to which good results were obtained. Farmers were trained about till cultivation and given necessary technical knowledge from time to time during the crop period.
Success Point	1. Use of improved variety having resistance against pest and disease. 2. Timely Sowing & Weeding. 3. Proper monitoring. 4. Judicious use of pesticides. 5. Regular contact with scientists of Krishi Vigyan Kendra
Farmer Feedback	Good response of the variety (RT-351). Good response of basal application of fertilizers & plant protection measures.
Outcome Yield (q/ha)	
- Potential yield of variety/technology	12 q/ha
- District average (Previous year) Source	3.23 q/ha (*Source : Rajasthan Agricultural Statistics AT A Glance 2022-23*)
- State average (Previous year) Source	3.63 q/ha (*Source : Rajasthan Agricultural Statistics AT A Glance 2022-23*)

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	7.12	29265	1,03,240	73,978	3.53
Demonstration	10.00	32233	1,45,000	1,12,767	4.50
% Increase	40.45	10.14	40.45	52.53	27.47

Sale price : Rs. 14500/q

Good Quality Photographs:

Field visit by KVK scientists at 9 AMP Bolawali

Field day at 9 AMP Bolawali

Sh. Hanuman Ram with his sesame crop

Field view with farmer at harvest at 9 AMP Bolawali

Success Story 2023-24

Season (Kharif/Rabi/Summer): Kharif 2023

Name of KVK	Hanumangarh-I (Raj.)
Crop and Variety	Sesame and RT-351
Name of farmer & Address	Sh. Chunni Lal S/o Sh. Ram Pratap, 1 DBL, VPO-Masitawali, Distt.-Hanumangarh (Raj.)
Background information about farmer field	The field is located in Chak 1 DBL of village Masitawali (Tibbi tehsil). The soil of the field is sandy loam, whose organic carbon level is low, phosphorus level is medium and potash level is high. Irrigation water sources are canals and tube wells. Based on soil test, pH value of soil is 8.40, Electrical conductivity is 0.273, Organic carbon is 0.326%, Available Phosphorus is 26.67 kg per hectare and Available Potash is 393.33 kg per hectare. Wheat crop was taken in this field last season.
Details of technology demonstrated	Improved variety RT-351, Seed treatment with Carbendazim 35 SD & Imidachloprid 48% FS, Soil treatment with *Trichoderma harzianum*, Soil application of NPK consortia, Basal application of fertilizers & Judicious use of pesticides.
Institutional Involvement	To promote crop diversification in the area, sesame crop was introduced. The existing varieties of sesame were affected by Phyllody disease. Therefore, farmers were not interested in sesame crop. Cluster Frontline Demonstrations were conducted to motivate farmers for sesame cultivation by including the improved sesame variety RT-351, which is developed at Jodhpur and resistant to Phyllody, Leaf curl and Stem & root rot disease and moderately resistant to Cercospora leaf spot & pod borer. Due to which good results were obtained. Farmers were trained about till cultivation and given necessary technical knowledge from time to time during the crop period.
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Outcome Yield (q/ha)	
- Potential yield of variety/technology	12 q/ha
- District average (Previous year) Source	3.23 q/ha (*Source : Rajasthan Agricultural Statistics AT A Glance 2022-23*)

- State average (Previous year) Source	3.63 q/ha (*Source : Rajasthan Agricultural Statistics AT A Glance 2022-23*)

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	7.10	29265	1,02,950	73,685	3.52
Demonstration	10.20	32233	1,47,900	1,15,667	4.59
% Increase	43.66	10.14	43.66	56.97	30.40

Sale price : Rs. 14500/q

Good Quality Photographs:

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<tr><td>Field visit by KVK scientist at 1 DBL, Masitawali</td><td>Sh. Chunni Lal with his sesame crop</td></tr>
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<tr><td>Field view of sesame field at 1 DBL, Masitawali</td><td>Field day at 1 DBL, Masitawali</td></tr>
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Field view of sesame field at 1 DBL, Masitawali