

Success Story of HEIS Ambassador Farmer Haji Ghulam Akbar on Drip Irrigation System

Farmer Introduction

Haji Ghulam Akbar is progressive grower and innovative farmer of Distt. Chakwal.



He belongs to a well-known family of Potohar Region. Besides farming Haji Ghulam Akbar is also engaged in Bricks Kiln business for last 23 years. He is one of the early technology adopters and implemented the same on

his farm house. Haji sb is amongst the pioneers pertaining to Viticulture in District Chakwal. Credit of, practicing Turmeric plantation in Grapevines to counteract Termite problem in Potohar, goes to Haji Ghulam Akbar. After his successful venture of biological control of Termite with Turmeric other farmers also followed the idea and they got benefitted as well. Besides Grapes, Haji sb has also Plum & other stone fruit farms which is a bit new idea in Potohar, this speaks of his tendency towards orchard raising of new types of fruits in this area. Since 2014 he has installed Drip System on 17 acres being subsidized from Govt. of Punjab under PIPIP.

He along with so many other progressive growers tried to propagate Grapes production Technology so that local farming community may deviate from conventional cropping pattern and may opt for the profitable Grapes raising. His Farm (Madina Grapes Farm) is demo site for grapes grower of the area.

According to Haji Ghulam Akbar sb, without drip irrigation system it was not possible for him to irrigate 17 acres area. This saved a lot of time, money and farm inputs and also observed remarkable increase in production as compared to conventional irrigation system.

Farm Particulars

- **Farm Location:** Madina Grapes Farm Talagang Chakwal Road Bikari Kalan near Balkasar Interchange, Tehsil and District Chakwal
- **Irrigation Schedule:** Drip Irrigation System
- **Topography:** Levelled

Salient Features of Drip Project

Total Area Under Drip	11 acres
Year of Drip Installation	2014
Subsidy Scheme	PIPIP
Crop under Drip System	Grapes
Crop Spacing(ft.)	10x8 (544 plants / acre)
Varieties sown	King's Ruby, Flame Seedless, NARC Black
Soil Type:	Sandy Loam
Water Source	Tube well
Ground Water Table Depth	240 ft.
Power Source	Electricity

System Price

Total System Price per Acre (PKR)*	Rs. 128,913
Farmer Share per Acre (PKR)	Rs.51,565

*This cost does not include Trellising cost

Farming Practices

Parameters	2016-17
Used Fertilizer Quantity (Kgs/Acre)	UREA= 50 SOP = 50 FYM= 10Kg/Plant
*Yield Per Acre (Kgs per Acre)	4750
Selling Price/Kg (Throughout Season) Rs.	40
Average Yield Per Acre (PKR)	190,000
Cost of Trellising/acre (Annual Depreciation method. On 5 years Depreciation)	220,000/ 5 = 44,000
Cost of Irrigation/acre (PKR)	2000
Average Cost of Production per acre Rs.(includes Pesticides, Fertilizer, Pruning, Sales & Marketing, Picking, Packing & Transportation, General look after, Watch and Ward)	48,500
Net Profit per acre Rs.	95,500

**Out of 11 acres 8 acres are on fruiting (60-70 percent).*

Benefits of Drip System

Drip Irrigation is the ultimate Crop Management technology.

It turns plant root zone in to Field Capacity (*Watar*) giving

Grapevines the required essential nutrients & enabling it:

- To continuously flourish & grow
- Yielding up to potential capacity
- To get desirable berry size
- To get quality fruit
- To effectively use water and fertilizer
- To have required moisture in rhizosphere thus avoiding fungal diseases.
- To save water and irrigate more area
- To cultivate sandy, light soils of Potohar, Thal and Cholistan.
- To get higher economics regarding yield when only dependency is on Ground water.
- To give Controlled Water stress to plant when required

Haji Ghulam Akbar Farm Pictures



Drip System for Grapes



Better Quality fruit



Happy Farmer with Healthy Crop



Remarkable increase in production



A view of grapes field with drip system



Fruit with desired size



Healthy Crop



Better Quality fruit



Crop is ready to go in the market