

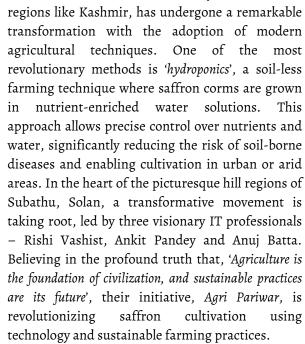


EMPOWERING FARMERS WITH INNOVATION AND SUSTAINABILITY

Ritanjali Hastir

Founder, Himachal Tonite, A News Web Portal

Saffron cultivation, traditionally confined to



Saffron, often referred to as 'red gold', is one of the world's most valuable spices. However, traditional farming methods often fall short of addressing the ecological challenges of today. Agri Pariwar aims to change this narrative by integrating innovative solutions such as soil monitoring, automated irrigation systems and organic pest control into the cultivation process. This approach not only enhances saffron yields but also safeguards the delicate environment of the mountainous regions, creating a blueprint for eco-friendly agriculture that could inspire farmers worldwide.

Haryana farmers too have successfully employed this method, growing saffron in a 225 sq. ft.-controlled environment, showcasing the scalability of this technique. The advanced method, controlled environment agriculture (CEA), uses greenhouses or climate-controlled rooms to replicate the ideal conditions for saffron cultivation. This system regulates temperature, humidity and light, thus extending growing seasons and allowing multiple harvests annually. In regions like Himachal Pradesh's Lahaul-Spiti, where the government has launched the 'Krishi Se Sampannta Yojana,' this method has proven especially useful. Drip irrigation complements these efforts by delivering water directly to the roots, conserving resources in water-scarce areas and preventing waterlogging, which could harm the delicate saffron corms.









Before planting, soil testing ensures that the fields are optimized for saffron cultivation. By analysing soil for pH, organic content and nutrient deficiencies, farmers can apply targeted fertilizers, enhancing productivity and reducing wastage. Post-harvest processing, another critical phase, involves advanced drying and packaging methods to preserve saffron's aroma, colour and flavour, ensuring it meets high market standards.

Furthermore, 'precision agriculture' integrates cutting-edge technologies like sensors, drones and AI to monitor crop health and optimize input usage. This ensures early detection of stress or diseases, maximizing yields and minimizing losses. Combined, these innovative practices are redefining saffron farming, making it more sustainable, scalable and lucrative. Such advancements, supported by organizations like Agri Pariwar through training and outreach, are empowering farmers in Himachal Pradesh, Haryana and beyond, heralding a new era for saffron as a high-value crop in India's agricultural economy.