



## **Integral Institute of Agricultural Science & Technology (IIAST) Integral University, Lucknow**

### **Brief report on Kisan Goshti organized by Department of Agriculture, IIAST on “Precision Farming”**

(कीमती खेती)

On April 12, 2022, the Department of Agriculture at IIAST organized a Kisan Goshti (Farmer's Meet) on Precision Farming in Palaka Village. The event aimed to educate local farmers on the benefits and techniques of precision farming to enhance agricultural productivity and sustainability. The Goshti was observed under the guidance of Prof. Mohd Haris Siddiqui, Director, Integral Institute of Agricultural Science and Technology and Dr. Saba Siddiqui, Head, Department of Agriculture, IIAST. The faculty members Dr. Khalid Habib and Dr. Salman Ahmad accompanied students of B.Sc. (Hons.) Agriculture to Palaka Village. Dr. Khalid Habib, Assistant Professor, provided insights into importance of integrating technology into agricultural practices for precision farming. He discussed various technological tools such as drones, sensors, and GPS systems that can be utilized for precise monitoring and management of crops. He highlighted the significance of collecting and analyzing data related to soil health, moisture levels, and crop growth patterns. By making data-driven decisions, farmers can optimize resource utilization and maximize yields. Dr. Habib shared advanced crop management techniques such as variable rate application of fertilizers and pesticides based on specific crop requirements identified through data analysis. This approach ensures optimal nutrient utilization while minimizing environmental impact.

Dr. Salman Ahmad's focused on the importance of adopting sustainable practices in precision farming. He discussed methods to reduce chemical usage through precision application techniques, which not only minimizes input costs for farmers but also mitigates environmental pollution. He elaborated on the benefits of precision irrigation systems, such as drip irrigation and sprinkler systems, in conserving water resources and ensuring uniform water distribution across fields. Dr. Ahmad emphasized the role of water-saving technologies in addressing water scarcity challenges. Dr. Ahmad discussed the significance of market access and value addition for farmers practicing precision farming. He highlighted the potential for premium pricing of high-quality, precision-managed produce in local and export markets, thereby enhancing farmers' income.

Overall, Kisan goshti provided valuable insights into the principles and practices of precision farming, empowering local farmers with knowledge and tools to enhance agricultural productivity, sustainability, and profitability in Palaka Village and beyond.



**Glimpses of the Goshti**





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