

Editor's Message

It gives me great pleasure to present before you the latest issue of Integral Krishi Darpan, a special edition that focuses on the transformative role of Artificial Intelligence (AI), digital technologies and modern innovations in Agriculture and allied sectors. This issue reflects our continued commitment to providing a credible platform for the dissemination of contemporary research, practical insights and futuristic ideas that are shaping the present and future of Indian Agriculture.

Agriculture today stands at the threshold of a technological revolution. Rapid advancements in AI, robotics, remote sensing, data analytics and digital platforms are redefining how food is produced, managed, processed and delivered. The articles included in this issue collectively highlight how these technologies are enhancing productivity, sustainability, resilience and profitability across the agricultural value chain—from soil health and crop monitoring to supply chains, urban farming and farmer advisory systems.

This edition brings together a rich collection of scholarly and applied articles that explore diverse dimensions of AI-driven Agriculture. Topics such as AI in food systems, smart and precision agriculture, agri-robotics, vertical farming, soil health monitoring, farmer advisory applications and technology-enabled supply chains provide readers with a comprehensive understanding of emerging trends and practical applications. The inclusion of economic perspectives, agro-climatic innovations in wheat cultivation and sector-specific studies further strengthens the multidisciplinary nature of this issue.

A notable strength of this issue is its bilingual presentation, which underscores our vision of inclusivity and outreach. By presenting articles in both English and Hindi, we aim to bridge the gap between advanced scientific research and grassroots-level stakeholders, including farmers, extension professionals, students, and agri-entrepreneurs. This approach ensures that knowledge does not remain confined to laboratories and academic institutions but reaches the field where it can create real impact.

I sincerely acknowledge and appreciate the efforts of all contributing authors for their valuable research, thoughtful analysis, and dedication to advancing agricultural knowledge. I am equally grateful to the reviewers and the editorial team for their meticulous work, constructive feedback and unwavering support, which have been instrumental in maintaining the academic quality and relevance of this publication.

We are confident that this issue of Integral Krishi Darpan will serve as a valuable reference for researchers, academicians, policymakers, students, farmers and will inspire further innovation and dialogue in the domain of smart and sustainable agriculture. Let us collectively work towards harnessing technology to empower farmers, strengthen food systems and ensure a resilient agricultural future for the nation.

Editorial Board