

ICAR–RCER, Patna Organizes Workshop on Harnessing Remote Sensing, GIS & Machine Learning for Advanced Land and Water Management

A one-day Training-cum-Workshop on “Harnessing Remote Sensing, GIS, and Machine Learning for Advanced Land and Water Management”, sponsored by BAMETI, Patna, was successfully organized by the ICAR–Research Complex for Eastern Region (ICAR–RCER), Patna on 25 November 2025. The



workshop was attended by 24 officials from various wings of the Bihar Government, including 12 ATM/BTM, 6 Agriculture Coordinators, 4 Block Agricultural Officer / Block Horticultural Officer, and 2 Deputy Project Directors. The inaugural session was chaired by Dr. Ashutosh Upadhyaya, Director (I/C), ICAR RCER, Patna, who highlighted the transformative role of smart digital technologies in modern agriculture. Heads of Divisions Dr. Ujjwal Kumar, Dr. Sanjeev Kumar, and Dr. Kamal Sharma also addressed the participants and discussed issues and potential interventions related to smart digital technologies in crops, fisheries, livestock, and agricultural marketing. During the technical session, expert scientists Dr. Arti Kumari (Scientist), Dr. Rohan Kumar Raman (Senior Scientist), and Dr. Pawanjeet (Scientist) from ICAR–RCER, Patna delivered lectures on GIS and Remote Sensing, Artificial Intelligence and Machine Learning, and Drone Applications for Smart Land and Water Management, respectively. Additionally, Dr. Tanuj Misra, Assistant Professor, RLBCAU, Jhansi, delivered a virtual lecture on Deep Learning Applications in Land and Water Management. The experts emphasized the potential of AI-driven analytics for developing precision-oriented and sustainable agricultural systems. The workshop concluded with an interactive group and panel discussion, where participants and experts exchanged ideas, identified field-level challenges, and explored collaborative opportunities for integrating advanced technologies into land and water resource management. Dr. Anup Das,

Director, ICAR–RCER, Patna, conveyed his message, stating, “This workshop reflects our continued commitment to integrating cutting-edge digital technologies for improving land and water management in Eastern India. The program was also attended by Dr Abhay Kumar, Principal Scientist; Dr PC Chandran, Nodal officer, HRD and Dr PK Sundaram, Sr



Scientist as panelists. “The programme concluded with a formal vote of thanks delivered by Dr. Dhiraj Kumar Singh, Senior Scientist,” said Sri Umesh Kumar Mishra.

