



# 43<sup>rd</sup> INCA International Congress

06-08 November 2023 - Jodhpur

**Day 1: Technical Session 2-B | 06 November 2023, 11:30 – 13:00 hrs**  
**Venue: Hall-B (2<sup>nd</sup> Floor, RC-W Main Building)**

## Sustainable Agriculture

Chair: ..... Co-chair: ..... Rapporteur: .....

SI No.	Title	Authors
1	Identifying the potential limiting factors towards crop intensification over Panrui gram panchayat of Birbhum, West Bengal	Prabir Kumar Das <sup>1</sup> , Tanumi Kumar <sup>1</sup> , Nivedita Sinha <sup>1</sup> , Sharmistha B Pandey <sup>1</sup> , Saikat Laha <sup>1</sup> , Subrata Mandal <sup>2</sup> , Soumya Bandopadhyay <sup>3</sup> , Suparn Pathak <sup>1</sup>  <sup>1</sup> Regional Remote Sensing Centre - East, NRSC, Kolkata <sup>2</sup> Rathindra Krishi Vigyan Kendra, ICAR <sup>3</sup> Earth observation applications & Disaster management support Programme Office, ISRO HQ.
2	Synergistic Integration of Optical, Microwave, Weather, and Pheno-phase Information Towards Developing a Robust Wheat Yield Proxy	Varun Pandey, Karun Kumar Choudhary, V. M. Chowdary  National Remote Sensing Centre, Hyderabad
3	Kharif Crop Typing of Haryana State Using Geo-Spatial Approach	Dharmendra Singh, Neha Pandey, Priti Atri, Parmod Kalkal, Sultan Singh  Haryana Space Applications Centre
4	Geographical Analysis of the Need for Modernization of Agriculture in Bihar	Jyotshana, Namrata Anand  Veer Kunwar Singh University
5	GIS-based Probabilistic Profitable horticulture land use for sustainable agriculture planning Using Multi Variables Decision Making, Machine Learning Models in Raiganj Subdivision, Eastern India	Sunil Saha <sup>1</sup> , Prolay Mondal <sup>2</sup>  <sup>1</sup> National Atlas and Thematic Mapping Organisation. <sup>2</sup> Raiganj University
6	Rice plant disease detection using Artificial Intelligence	Arati Paul <sup>1</sup> , Sanskar Goel <sup>2</sup> , Suparn Pathak <sup>1</sup>  <sup>1</sup> Regional Remote Sensing Centre - East, NRSC, Kolkata <sup>2</sup> Amity University, Kolkata
7	Mapping of Climatic Suitability to Sugarcane Cultivation and Assessment of Irrigation Requirement in Pune District Using Eco-crop	D D Bombe  Sathaye College, Vile Parle, Mumbai

	and CROPWAT Models from Geospatial Technology	
8	Vegetative health assessment of citrus orchards using geospatial techniques	Jugal Kishore Mani, A. O. Varghese, G. Sreenivasan  <sup>1</sup> Regional Remote Sensing Centre - East, NRSC, Kolkata
9	A Stacked Generalization Approach and Machine Learning Based Crop Classification Using Sentinel-1A Satellite Imagery for Aligarh District	Nandani Shrivastava, Rani Singh, Akash Goyal  Birla institute of Scientific Research Centre, Jaipur
10	Appraisal of Agricultural Situation and Challenges in Sirohi District, Rajasthan	Balak Ram  ICAR-CAZRI, Jodhpur