

FIRST CIRCULAR



विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF
SCIENCE & TECHNOLOGY



ICFRF 2026

International Conference on **FUTURE READY FARMING: CLIMATE SMART AND RESILIENT AGRICULTURAL SOLUTIONS**

8 - 10 JULY, 2026

Organized by

DST-CENTRE OF EXCELLENCE ON CLIMATE AND DISASTER RESILIENT AGRICULTURE

Agro Climate Research Centre, Directorate of Crop Management

Tamil Nadu Agricultural University, Coimbatore – 641003.

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CLIMATE, ENERGY AND SUSTAINABLE TECHNOLOGY DIVISION (CEST)

National Mission on Strategic Knowledge for Climate Change (NMSKCC),

Department of Science and Technology, Government of India, New Delhi - 110016.





Tamil Nadu Agricultural University (TNAU) is hosting the **ICFRF 2026: Future Ready Farming: Climate Smart and Resilient Agricultural Solutions** from 8 to 10 July 2026 under CoE-CDRA sponsored by the DST-CEST-NMSKCC. This global event will gather scientists, researchers, policymakers, and agripreneurs to exchange knowledge, showcase innovations, and foster collaborative strategies for future-ready farming. The conference aims to explore practical and emerging approaches that enhance climate resilience, agricultural sustainability, and productivity, paving the way for transformative agricultural systems. ICFRF 2026 will address challenges facing agriculture climate variability, water scarcity, soil degradation, pest pressures, and market uncertainties by promoting integrated, low carbon, and resilient solutions. We invite your participation in this distinguished gathering to advance sustainable and climate smart agricultural resilience for the global food security



A historic legacy institute, established during 1868 as the Agricultural School at Saidapet, Chennai, became a full-fledged university on 1971 headquartered at Coimbatore, Tamil Nadu, India. TNAU has a state-wide Teaching - Research - Extension network of 19 constituent colleges, 42 research stations and 15 Krishi Vigyan Kendras across Tamil Nadu, serving as a cornerstone for agricultural education, research and farmer extension services. TNAU developed and released over 966 varieties in 91 crops, 170⁺ farm machinery, and 1,500⁺ management technologies. It is recognized for varietal development, technology transfer, and national honours, receiving ICAR's Sardar Patel Award for Outstanding Institution in 2010 and won first prize in the 2023 National Water Awards for innovative water management and campus-wide rainwater harvesting and reuse systems. In national benchmarking, TNAU ranked #6 in India in NIRF Agriculture and Allied Sectors in 2024–2025, reflecting strong academic and research performance. Nadu, serving as a cornerstone for agricultural education, research and farmer extension services.





Climate, Energy and Sustainable Technology Division (CEST) Division of the Department of Science and Technology (DST) promotes and funds for research and development in areas like clean energy, climate change adaptation, and sustainable solutions. It supports initiatives across the energy value chain, including solar energy, hydrogen, energy storage, and smart grids, and plays a key role in India's participation in international initiatives like Mission Innovation. The division's work aims to drive technological innovation and accelerate India's transition to a sustainable future.



The Agro Climate Research Centre (ACRC), formerly known as the Department of Agricultural Meteorology, was established on 9th November 1998, conducts research on the relationship between weather and crop production, micrometeorology, hydrometeorology, soil and forest climatology. Renamed in June 2007 to reflect its expanded scope, ACRC also enhances agro-meteorological education across Tamil Nadu. The Centre provides location specific agromet advisory services to farmers through various media, aiming to mitigate weather variability's impact on farming. ACRC supplies skilled professionals to national and international institutions such as IMD, ICAR, SAUs and ICRISAT, supporting research and extension activities.



The DST - Centre of Excellence on Climate and Disaster Resilient Agriculture (COE-CDRA), supported by the National Mission on Strategic Knowledge for Climate Change (NMSKCC, CEST, DST, New Delhi). The centre aims to enhance understanding of climatic risks, develop adaptive food systems, and strengthen capacities at institutional and farmer levels. It promotes climate-resilient agricultural technologies, including weather-smart, water-smart, seed/breed-smart, nutrient-smart, labor-smart, and carbon-smart practices. Key components include capacity-building programs, establishment of Regional Climate Technology Centre, development of Climate Resilient Villages, and training for farmers, scientists, and policymakers. The project seeks to bridge the gap between scientific research and policy implementation, empower farming communities with adaptive technologies, and ensure food and livelihood security amid climate and disaster risks.





Conference Highlights

- **Keynote Talks and Lead Presentations:** Thought-provoking sessions by global experts sharing insights on climate-resilient agriculture, sustainability, and future farming innovations
- **Scientific Sessions:** Oral and poster presentations featuring pioneering research, innovative technologies, and real-world applications for climate-smart farming
- **Best Presentation Awards:** Recognizing excellence in scientific innovation and impactful research
- **Way Forward Session:** A visionary dialogue shaping actionable pathways for transitioning towards future-ready and climate-smart agricultural systems



CONFERENCE THEMES

Theme 1: Seamless Climate Intelligence for Risk-Ready Farming

- Climate Data Integration and Forecasting
- Climate change projections, extremes and impacts
- AI and ML for agricultural modelling and Risk Free Farming Decisions
- Innovative Crop Insurance Solutions
- Technologies for Smallholder Empowerment
- Micro-climate interventions for climate resilient farming

Theme 2: Innovative Crop Improvement Approaches for Climate-Resilience

- Climate Resilient Crop Breeding
- Physiological Approaches to Crop Stress Tolerance
- Advanced Molecular & Genomic Tools for Climate Ready Crops
- Biofortification for Enhanced Nutritional Security
- Next-Gen Seed Technologies for Climate Resilient Agriculture
- Digital Technology-Enabled Breeding for Low-Input and Regenerative Farming

Theme 3: Digital and Nature-Based Solutions for Water and Energy Smart Agriculture

- Climate Smart Water Resource Management & Planning
- AI & Digital Tools for Irrigation and Conservation
- Agricultural Water Footprints and Farm Water Accounting
- Community Incentives and Policy Instruments for Water Stewardship
- Energy Monitoring, Optimization, and Conservation in Agriculture
- Renewable Energy Integration & Energy Efficient Farming Practices



Theme 4: Smart Nutrient and Carbon Management for sustainable soil health

- Digital Innovations for Soil Health Monitoring and Management
- Role of Nano Fertilizers and Biofertilizers in Low-carbon Farming
- Policy Frameworks for Carbon-Smart Fertilizer Management
- Farmer Centred Innovations for Soil Health Sustainability
- Linking Nutrient-Smart Practices to Carbon Markets
- Regenerative Agricultural Practices for Sustainable Ecosystem

Theme 5: Forewarning for Climate-Smart and Residue-Free Agriculture

- Digital Surveillance and AI Models for Pest and Disease Dynamics
- Climate Smart Pest and Disease Risk Assessment
- Weather based Pest and Disease Forewarning
- RS and GIS for Monitoring Soil Health and Crop Residue Dynamics
- Residue Free Crop Protection Strategies
- Farmer Centric Digital Advisory Platforms

Theme 6 : Digital Technologies for Advisories and Market Information Dissemination

- Digital Advisory and Knowledge Platforms for Smart Agriculture
- Blockchain for Transparent and Resilient Food Systems
- Blockchain-Enabled Climate Risk Management and Crop Insurance
- Market-Smart Farming and Farmer Empowerment
- Policy and Partnership Frameworks for Climate-Resilient Blockchain Ecosystem
- International Collaborations for Cross-Border Food Trade Traceability

July 08: Exclusive panel discussions and formulation of the way forward



Participants are requested to register for the conference on or before 20.06.2026

Category	Registration fee
International Participants (Outside India/NRI)	\$ 100
National Participants	
i. Faculty/Scientist	6,000
ii. Post-Doc/Research Fellows	4,000
iii. Students (M.Sc./Ph.D.)	3,000
iv. Industry Participants	5,000
v. Accompanying person	2,000*

**Scan for Registration
and Abstract Submission**



Note: Complementary accommodation for all the registered students *Certificate will not be issued for accompanying person



Payment Details

Account Name : ACRC-CoE-CDRA
Account Number : 44394043221
Bank Name : State Bank of India
Branch Name : TNAU Branch, Coimbatore
IFSC Code : SBIN0002274
MICR Code : 641002005
SWIFT Code : SBININBB451
UPI ID : acrccoecdra@sbi

Scan for Payment



Sponsorship



Sponsors will be duly recognized during the conference and presented with a certificate of appreciation and a commemorative memento acknowledging their contribution.

Important Dates

Event	Date
Registration and Abstract submission opens	08.05.2026
Last date for abstract submission	08.06.2026
Poster / Oral Confirmation	15.06.2026
Last date for registration	30.06.2026

Travel information

Coimbatore has an international airport connecting it to major domestic and international cities. The city is also well linked to key Indian cities via rail and road networks. The airport is located 15 km away and the railway station is 4 km away from TNAU.

Accommodation

Coimbatore offers a variety of accommodations, ranging from budget to luxury hotels, to suit all preferences. Delegates are encouraged to make reservations directly with the hotel of their choice. We will provide the list of hotels with rent details along with oral/poster participation confirmation



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Nearby Places Interest

Coimbatore, the second-largest city of Tamil Nadu, is a major industrial and commercial hub, often called the “Manchester of South India” for its thriving textile industry. Situated on the banks of the Noyyal River and in the rain-shadow region of the Western Ghats, the city enjoys a pleasant climate year-round. With a blend of industrial, agricultural, and natural attractions, Coimbatore offers a vibrant environment for business, research, tourism, and conferences. **Coimbatore offers a rich mix of cultural, spiritual, natural, and industrial attractions for visitors to explore:**

Temples	Dam/Waterfalls
• Patteeswarar Swamy Temple • Marudhamalai Murugan Temple • Isha Yoga & Dhyanalinga Temple • Arivu Thirukoil, Aliyar • ISKCON Temple	• Aliyar Dam, Pollachi • Kovai Kutralam Waterfalls • Siruvani Waterfalls • Thirumoorthy Falls, Pollachi • Kavi Aruvi, Pollachi
Museum	Hills/Sanctuary
• Insect Museum, TNAU • Botanical Garden, TNAU • GASS Forest Museum • Burliyar Horticulture Farm • Gedee Car Museum	• Ooty hill station • Nilgiri Mountain train • Valparai Hill Station • Muthumalai Tiger Reserve • Anaimalai Tiger Reserve

FURTHER DETAILS CONTACT

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