

TWO DAY INTERNATIONAL CONFERENCE

“CLIMATE INNOVATION AND ENVIRONMENTAL CHALLENGES”

ORGANIZED BY

Department of Civil Engineering

College of Engineering Guindy (CEG)

Anna University, Chennai

In collaboration with

Centre for Climate Change and Disaster Management (CCCCDM)

Anna University, Chennai

DATE & VENUE

DATE: 25 & 26 FEBRUARY 2026

VENUE: Paari Arangam

Department of Civil Engineering

CEG, Anna University, Chennai

NO REGISTRATION FEES

Registration Link: <https://forms.gle/qgM6B4u1xHT9kf547>

Last date for registration: 23.02.2026

Lunch will be provided

CONTACT

THE DIRECTOR

CCCCDM, Department of Civil Engineering, CEG Campus

Anna University, Chennai

 +91-44-2235 7947 / 7949;  cccdm.au@gmail.com

ABOUT ANNA UNIVERSITY

Anna University, established in 1978 and headquartered in Chennai, Tamil Nadu, is one of India's premier technical universities, renowned for its excellence in engineering, technology and applied sciences. The University offers a wide range of undergraduate, postgraduate and doctoral programmes through its constituent colleges and affiliated institutions across the state. With a strong emphasis on research, innovation and societal relevance, Anna University actively promotes interdisciplinary learning and problem-solving approaches to address contemporary challenges such as climate change, environmental sustainability, infrastructure resilience and disaster risk reduction. The University collaborates extensively with government agencies, industries, national laboratories and international institutions, contributing to policy formulation, technology development and capacity building. Through its commitment to sustainable development and alignment with the Sustainable Development Goals (SDGs), Anna University continues to play a pivotal role in shaping future-ready professionals and solutions for a resilient society.

ABOUT DEPARTMENT OF CIVIL ENGINEERING

The Department of Civil Engineering at Anna University, CEG, stands as a Centre of Excellence in teaching, research and professional practice. The department offers comprehensive undergraduate, postgraduate and doctoral programmes spanning key domains such as environmental engineering, water resources, geotechnical engineering, transportation engineering, structural engineering and construction management. With state-of-the-art laboratories, field-based learning and strong industry and government linkages, the department actively contributes to sustainable and climate-resilient infrastructure development. Faculty and students are engaged in cutting-edge research addressing pressing challenges related to climate adaptation, pollution control, water and sanitation, disaster mitigation and

sustainable urban development. Through consultancy, sponsored research and capacity-building programmes, the Department of Civil Engineering plays a vital role in supporting evidence-based decision-making and resilient infrastructure planning at regional and national levels.

ABOUT CCCDM

The Centre for Climate Change and Disaster Management (CCCDM), housed within Anna University, is a pioneering centre dedicated to advancing research, capacity building and policy support in the areas of climate change adaptation, mitigation and disaster risk reduction. Established to address the growing challenges posed by climate variability and extreme events, CCCDM adopts a multidisciplinary approach that integrates engineering, environmental sciences, social sciences and data-driven modelling. The Centre undertakes climate risk and vulnerability assessments, sectoral climate impact studies, environmental monitoring and decision-support research at regional and cadastral scales. CCCDM actively supports line departments, urban local bodies and stakeholders through training programmes, technical advisory services and knowledge dissemination initiatives. As the National Partner for the Climate Compatible Growth (CCG) Programme in India, CCCDM plays a strategic role in promoting climate-compatible development pathways through national and international collaborations.

BACKGROUND OF THE CONFERENCE

Climate change, environmental degradation and resource stress represent some of the most complex and interconnected challenges confronting societies worldwide. Rising global temperatures, extreme weather events, sea-level rise, ecosystem degradation and increasing pollution loads are exerting unprecedented pressures on natural systems, infrastructure networks and socio-economic stability. Rapid urbanisation, industrial expansion and unsustainable resource use further

compound these challenges, particularly in developing and climate-vulnerable regions. Technological innovation and scientific advancement play a critical role in addressing climate and environmental challenges. Innovations in climate-resilient infrastructure, renewable energy systems, environmental monitoring, data-driven modelling, pollution mitigation technologies and nature-based solutions are transforming the way societies adapt to and mitigate climate risks. At the same time, effective climate action requires integration of engineering solutions with environmental management, policy frameworks and community-driven approaches.

The **Two-Day International Conference on “Climate Innovation and Environmental Challenges”** is conceived as a multidisciplinary and international forum to bring together researchers, academicians, practitioners, policymakers and industry experts to share knowledge, showcase innovations and discuss emerging challenges and solutions. The conference aims to promote cross-sectoral dialogue and foster collaboration across engineering, environmental sciences, climate studies, public policy and sustainable development domains. By providing a platform for presenting original research, innovative technologies and practical case studies, the conference seeks to strengthen evidence-based decision-making and accelerate the translation of research into real-world climate solutions. The deliberations are expected to contribute to advancing climate-resilient development pathways aligned with national priorities, international climate commitments and the Sustainable Development Goals (SDGs).

SCOPE

The conference focuses on innovative approaches to climate change mitigation and adaptation, environmental protection, sustainable infrastructure and resource management. Emphasis will be placed on interdisciplinary research, technological

innovations, policy frameworks and real-world applications addressing emerging environmental challenges.

TARGET PARTICIPANTS

Faculty Members • Researchers • Environmental Engineers • Climate Scientists • Urban Planners • Industry Professionals • Policymakers • PG & PhD Scholars • Students

OBJECTIVES OF THE CONFERENCE

- To provide an international platform for sharing climate and environmental research
- To promote innovation-driven solutions for environmental challenges
- To encourage interdisciplinary collaboration and global knowledge exchange
- To disseminate policy-relevant research and best practices

MAJOR THEMES

- Climate Change Mitigation and Adaptation Strategies
- Climate-Resilient and Sustainable Infrastructure
- Environmental Pollution, Monitoring and Management
- Water Resources, Waste Management and Circular Economy
- Nature-Based Solutions and Ecosystem Restoration
- Climate Policy, Governance and Decision-Support Tools

EXPECTED OUTCOMES

- Knowledge exchange on climate innovation and environmental challenges
- Strengthened international and interdisciplinary collaboration
- Capacity building for researchers and practitioners
- Policy-relevant insights supporting sustainable development pathways

ORGANIZING COMMITTEE

CHIEF PATRON

Dr. P. Sankar, I.A.S.

Secretary to Government,
Higher Education Department, Government of Tamil Nadu

Dr. S. Visakan, I.A.S.

Commissioner of Technical Education,
Directorate of Technical Education, Government of Tamil Nadu

Dr. B. T. N. Sridhar

Professor, Department of Aerospace Engineering,
MIT Campus, Anna University

PATRON

Dr. V. Kumaresan, Registrar (i/c), Anna University

Dr. P. Hariharan, Dean, CEG, Anna University

CONVENER

Dr. S. Kanmani

Professor & Head, Department of Civil Engineering
Director (i/c), CCCDM, Anna University

Dr. A. Ramachandran

Honorary Emeritus Professor, CCCDM, Anna University & Former
Chief Conservator of Forests, Indian Forest Service, Tamil Nadu
Forest Department, Government of Tamil Nadu

COORDINATORS

Dr. Saranya Kuppusamy

Visiting Professor, CCCDM, Anna University

Dr. Divya Subash Kumar

Scientist, CCCDM, Anna University

Dr. S. N. Ahamed Ibrahim

Scientist, CCCDM, Anna University

Dr. R. Geetha

Scientist, CCCDM, Anna University

Dr. S. Hariharan

Scientist, CCCDM, Anna University

Dr. K.A. Yasar Asrafath

Scientist, CCCDM, Anna University

Dr. S. Pavithrapriya

Scientist, CCCDM, Anna University

Dr. J. Gayathri

Scientist, CCCDM, Anna University

PAPER PRESENTATION & SUBMISSION DETAILS

The conference invites **original and unpublished research contributions**, review papers, case studies and practice-based insights relevant to the conference themes.

TYPES OF PRESENTATION

◆ ORAL PRESENTATION

- Selected papers will be scheduled for **oral presentation**
- **Duration:** 10 minutes per paper (including discussion)
- **Mode:** In-person presentation

◆ POSTER PRESENTATION

- Posters will be displayed during designated poster sessions
- Authors will be required to be present for interaction and discussion
- Poster size and format will be communicated to selected authors

IMPORTANT NOTES

- Abstracts must be **original and not previously published or presented**
- At least **one author must register and present** the paper
- **Participation and Presentation Certificates** will be provided to registered presenters

ABSTRACT SUBMISSION GUIDELINES

Abstract Length: Maximum 250 words

Format: Structured or unstructured abstract clearly outlining:

- Background and objectives
- Methodology / approach
- Key findings or expected outcomes
- Significance and relevance to the conference themes

Submission Mode: Online submission through the registration portal

Review Process: Abstracts will be reviewed by the Technical Committee

Acceptance Notification: Intimation regarding **oral or poster presentation** will be communicated via email

