

ONE DAY NATIONAL CONFERENCE

“CLIMATE RESILIENCE AND ONE HEALTH SYNERGY”

ORGANIZED BY

**Centre for Climate Change and Disaster Management
(CCCDM)**
Department of Civil Engineering Anna University, Chennai

DATE & VENUE

DATE: 4th March 2026

VENUE: Paari Arangam

Department of Civil Engineering
CEG, Anna University, Chennai

NO REGISTRATION FEES

Registration Link: <https://forms.gle/BGsFuZ5ikrrw4tVS7>

Lunch will be provided **CONTACT**

THE DIRECTOR (i/c)

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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

Climate change has emerged as one of the most critical global challenges of the 21st century, with far-reaching implications for human health, ecosystems, infrastructure systems and socio-economic stability. Increasing frequency and intensity of extreme weather events such as floods, heatwaves, droughts and cyclones, coupled with environmental pollution, water stress and biodiversity loss, are exacerbating vulnerabilities across regions.

These challenges are deeply interconnected at the human–animal–environment interface. Climate-induced changes in ecosystems influence disease dynamics, food and water security, air quality and public health outcomes. At the same time, infrastructure systems must be designed to withstand climate stresses while safeguarding environmental integrity and human well-being. The **One Health** approach, which recognises the interdependence of human health, animal health and environmental health, offers a holistic framework to address these complex, cascading risks. The One-Day National Conference on **Climate Resilience and One Health Synergy** aims to provide a dedicated interdisciplinary platform to deliberate on climate-resilient pathways that integrate engineering solutions, environmental management and health risk perspectives. By bringing together experts from civil engineering, environmental sciences, public health, disaster management and policy domains, the conference seeks to foster dialogue, knowledge exchange and collaboration for building resilient and sustainable systems aligned with national development priorities.

SCOPE

Climate resilience planning must extend beyond infrastructure to include ecosystem protection and public health preparedness. Climate-induced hazards such as floods, heatwaves, air and water pollution have cascading impacts on communities and socio-economic systems. This conference focuses on interdisciplinary approaches that integrate engineering solutions, environmental management and health risk assessment, aligned with national climate adaptation priorities and sustainable development goals.

TARGET PARTICIPANTS

Faculty Members • Researchers • Environmental Engineers • Public Health Professionals • Policymakers • PG & PhD Scholars • Students

OBJECTIVES OF THE CONFERENCE

- To highlight linkages between climate change, environmental quality and public health
- To promote the One Health approach in climate resilience and disaster risk reduction
- To facilitate interdisciplinary dialogue among engineers, environmental scientists and health experts
- To disseminate research findings, policy insights and best practices

MAJOR THEMES

- Climate Change Impacts on Human, Animal and Environmental Health
- Climate-Resilient Infrastructure and Sustainable Engineering
- Environmental Pollution, Exposure Pathways and Health Risks
- Water, Sanitation and Ecosystem Health
- Disaster Risk Reduction and Climate Adaptation Strategies

EXPECTED OUTCOMES

- Improved understanding of climate resilience through the One Health lens
- Strengthened collaboration across engineering, environment and health sectors
- Enhanced capacity for integrated climate and health risk management
- Knowledge exchange to support policy-relevant and science-based decision making

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,
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PATRON

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

CONVENER

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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

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