

# National Seminar and Exhibition on Recent **D**evelopments In Design and **C**onstruction Technologies



**REDECON**  
2025



25th - 26th April 2025



NIMHANS Convention Centre, Bengaluru, India



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## Construction 4.0

Construction 4.0, also known as the fourth industrial revolution in construction, refers to the integration of technologies, automation, and connectivity to innovate and advance the construction industry. This new era combines advanced technologies to revolutionize traditional construction practices, increasing efficiency, productivity, and sustainability.

### REDECON 2025

The REDECON 2025 Conference will focus on "Building Durable Structures for the Five Elements." The event is designed to highlight cutting-edge and future technologies in design and construction, aimed at creating robust structures that can withstand, adapt to, and harness the forces of Nature. This theme is inspired by the ancient Indian concept of the Five Elements (Panchabhootas) - Space, Wind (Air), Fire, Water, and Earth - which also form the foundational principles of Civil Engineering across its various domains.

The Conference will be organized into five sessions across two days, April 25th and 26th, 2025, with each session dedicated to one of the five elements, presented in the order listed above.

**A brief overview of the content for each session is as follows:**

#### Session Themes in REDECON 2025

##### Session 1: SPACE

Approach to space utility - Sustainable, Minimalist, Open, Efficient Space Planning, Spaces for Wellness and Mindfulness: Efficient Land Use: Digital Twins and Virtual Connectivity.

##### Session 2: WIND

Utility of wind as energy, force and air we need, Structures designed to withstand, accommodate, mitigate, divert, and harness wind forces.

##### Session 3: FIRE & ENERGY

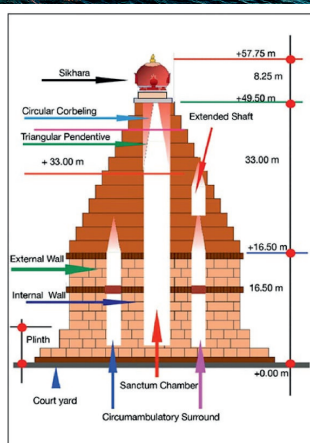
Structures designed to ensure fire safety, resist fire, study of fire damage and repair, utilise or channelise solar energy, conserving and efficiency of energy in buildings, electrical energy

##### Session 4: WATER

Structures designed to store, distribute, manage, resist, & channel water, water efficiency, including those in offshore environments.

##### Session 5: EARTH

Structures designed to be built on, over, or under the earth, utilizing the earth itself.



#### Who should attend

- Practicing Civil Engineering professionals including complimentary Engineering domains
- All those connected to Construction and Infrastructure Sector
- Housing Sector, Commercial sector
- Manufacturers, Supply Chain Entities, Facilitators, Innovators, Entrepreneurs
- Design consultants, Architects, Service providers, expert applicators.
- Academicians, Researchers, Students.
- Governmental Organisations and Decision Makers in Private and Government Sector
- Professional Engineers registered with ECI

#### Take-aways

- Opportunities in addressing Challenges to Civil and related issues
- Opportunity to revamp Procedures and systems towards greater compliance
- Getting to know the latest in technology and developments in recent times
- Getting to know professionals from varied branches of Civil Engineering Construction
- Greater Brand exposure and product awareness
- Identification of Solution providers to various demands of the Industry.

#### DELEGATE FEES (Including 18% GST)

DELEGATES	₹ 4500/-
ACCE (I) & Associate Partners Members	₹ 3500/-
RESEARCH SCHOLARS	₹ 2750/-
STUDENT DELEGATES	₹ 1500/-

(\*The conference is open for final year Undergraduate Students, PG students)

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# Confirmed Speakers and Topics

## SESSION - SPACE



### Dr. P G Diwakar

Senior Scientist,  
Chair Professor ISRO,  
National Institute of Advanced  
Studies, IISC, Bangalore

**Topic:** Satellite Imagery and its Applications in effective planning for Civil Engineers



### Er. Prabhu Chandran

Proprietor at ES Structural  
Consultant, Tirunelveli

**Topic:** Design and construction of the glass bridge in Kanyakumari



### Dr. Venugopal Indaram

Retd GROUP HEAD, ISRO  
Govt of India, Bangalore  
(Prof & Ex-HoD, Civil Engineering  
Dept, MSRIT, Bengaluru )

**Topic:** Need for Moon Habitation & Emerging Design and Construction Challenges

## SESSION - WIND



### Dr. P Kanagavel

Additional Director, Information,  
Training and Customized Services  
National Institute of Wind  
Energy (NIWE) Velachery

**Topic:** Wind Power Generation in India Civil Perspective



### Dr. P Hari Krishna

Chief Scientist & Head,  
Wind Engineering Laboratory  
CSIR-Structural Engineering  
Research Centre, Chennai

**Topic:** Wind Tunnel Studies on Models of Buildings and Structures



### Dr. Arunachalam Srinivasan

Former Director, Jaypee University  
of Engineering & Technology,  
Raghogarh, Guna, Madhya Pradesh  
and Former Chief Scientist,  
CSIR-SERC, Chennai

**Topic:** Mitigation of Damage to Structures Due to Severe Cyclones in Coastal Regions and Role of Cyclonic Importance Factor, k4, in Structural Design

## SESSION - WATER



### Dr. H B Jagadeesh

Former Scientist-E  
at CW&PRS, Pune

**Topic:** Dredging for the Development of Coastal Projects in India



### Er. B O Prasanna Kumar

Jt. Managing Director,  
DesignTree Service  
Consultants Pvt Ltd  
Bengaluru, Karnataka, India

**Topic:** Tall Building Plumbing : Resilience through Innovative Design and Technology



### Dr. Purnima Jalihal

Former Scientist, EFW  
National Institute of Ocean  
Technology, India

**Topic:** Offshore Structural Challenges for Harnessing Energy and Water

## SESSION - FIRE & ENERGY



### Er. B S A Narayan

Founder/Managing Director  
Maple Engg-Design Services  
(India) Pvt. Ltd

**Topic:** Design & Implementation of Active Fire Protection systems for tall Buildings as per NBCI



### Dr. Venkatesh Kodur

Professor  
Michigan State University  
East Lansing,  
United State of America

**Topic:** Engineering new generation of concretes and structures for fire safety



### Dr. Shorab Jain

Head,  
Fire Safety Engineering  
CSIR-CBRI.

**Topic:** Fire Resistant Construction Techniques

## SESSION - EARTH



### Dr. Manoj Verma

Tunnelling & Rock Engineering Expert,  
Rocscience Representative and President,  
ISRM Commission on Hard  
Rock Excavation Gurgaon, Haryana, India

**Topic:** Resilient Rock Tunneling: Engineering Challenges, Lessons from Silkyara, and the Path Forward



### Lt. Col. L Shri Harsha (Retd,)

PMP, PgMP, DASSM  
Techno Legal Consultant  
CSOHO

**Topic:** Challenges, Lessons & Opportunities from the Himalayas and Antarctica - An Experimental Narrative



### Mr. S Selvakumar

Retd General Manager  
L & T

**Topic:** 9.81m/sec: The science behind Sikhara's Journey

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2025

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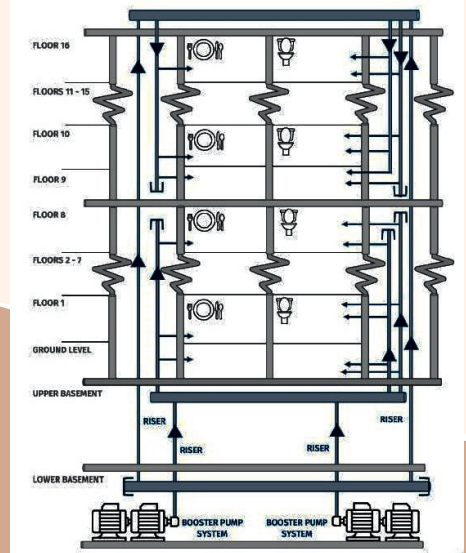
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