



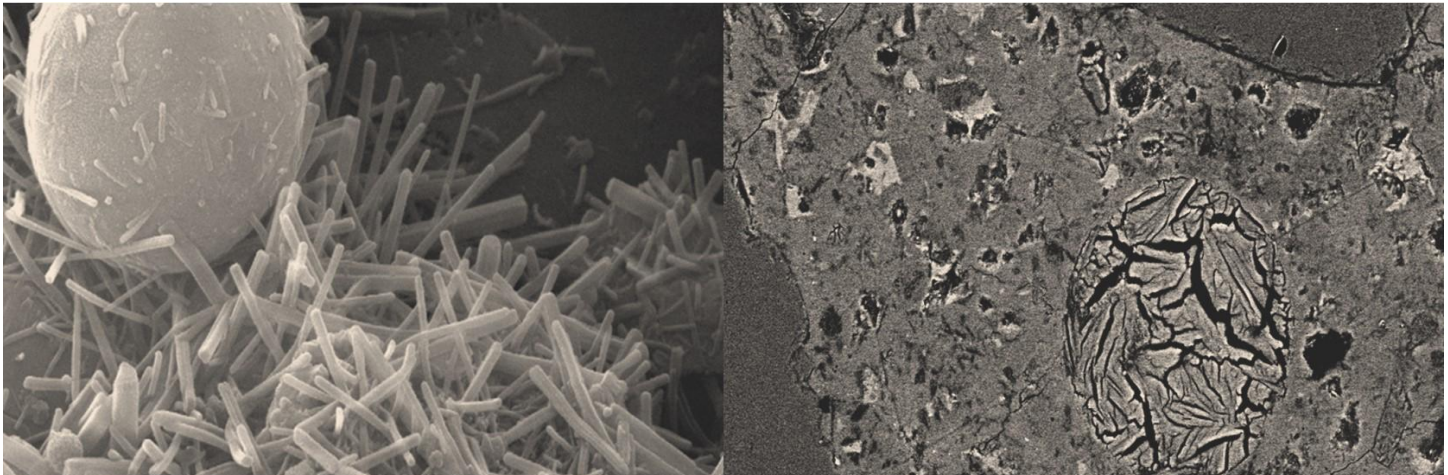
SatiQ
Concrete
Manufacturer

IITM Research Park, Chennai
connect@scmconcrete.com
www.scmconcrete.com



SATIQ CONCRETE MANUFACTURER PVT. LTD.

The Next Generation of Concrete: Smart, Sustainable, and Data-Driven



*Centre of Excellence on
Technologies for
Low Carbon & Lean
Construction*



August 2025

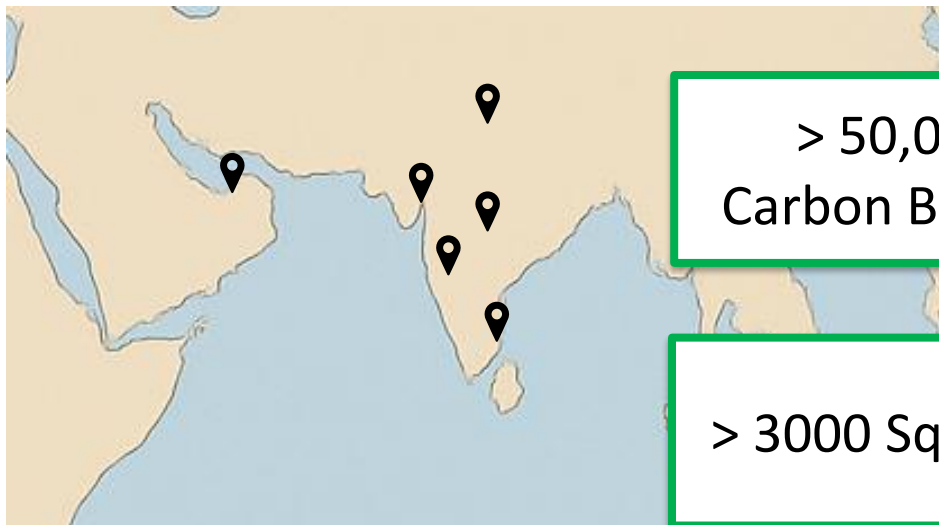
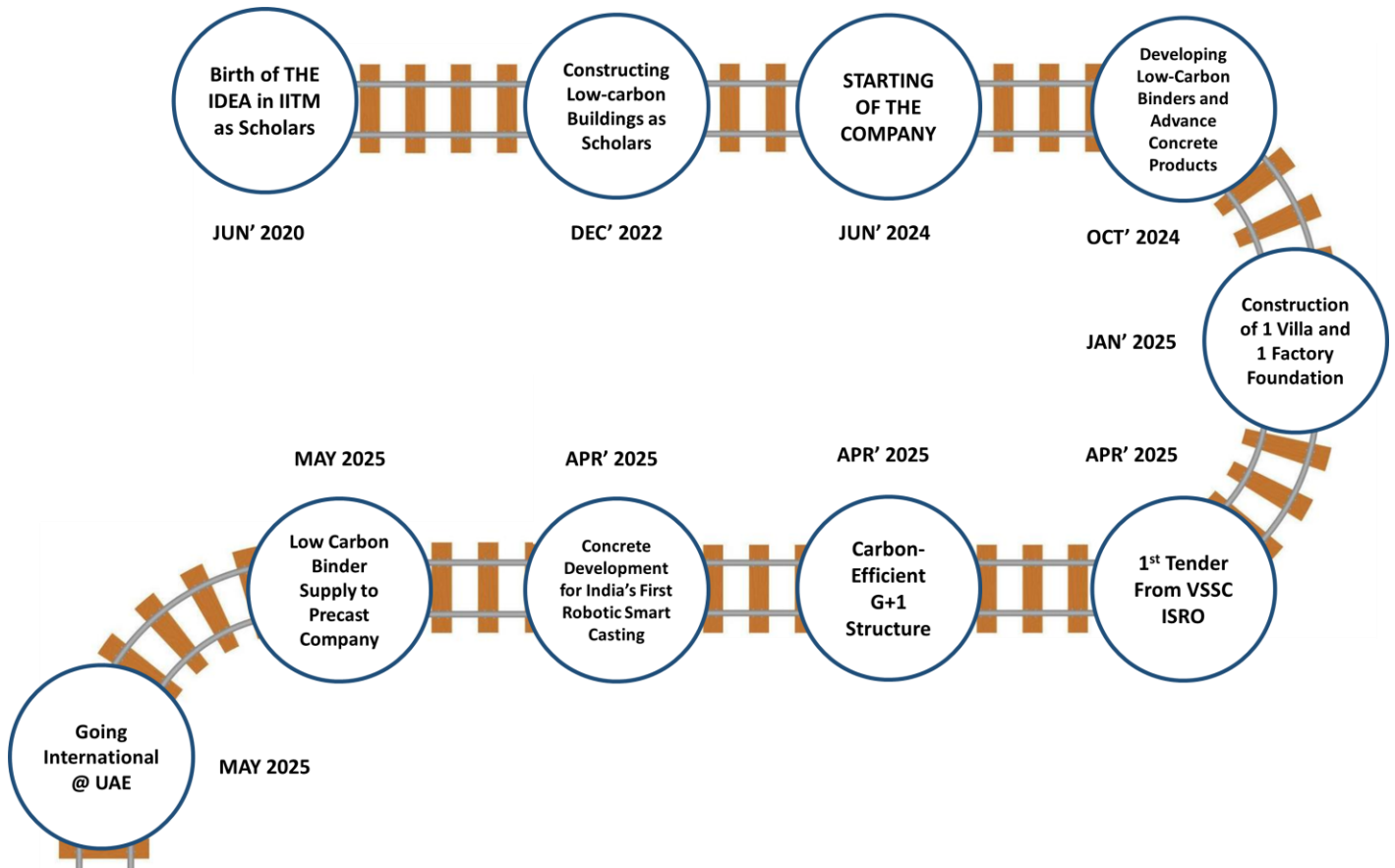
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Content

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- Who We Are
- About Founders
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- Performance Enhanced Products
- Clients and Partners
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- Recognitions And Outreach

Our Journey

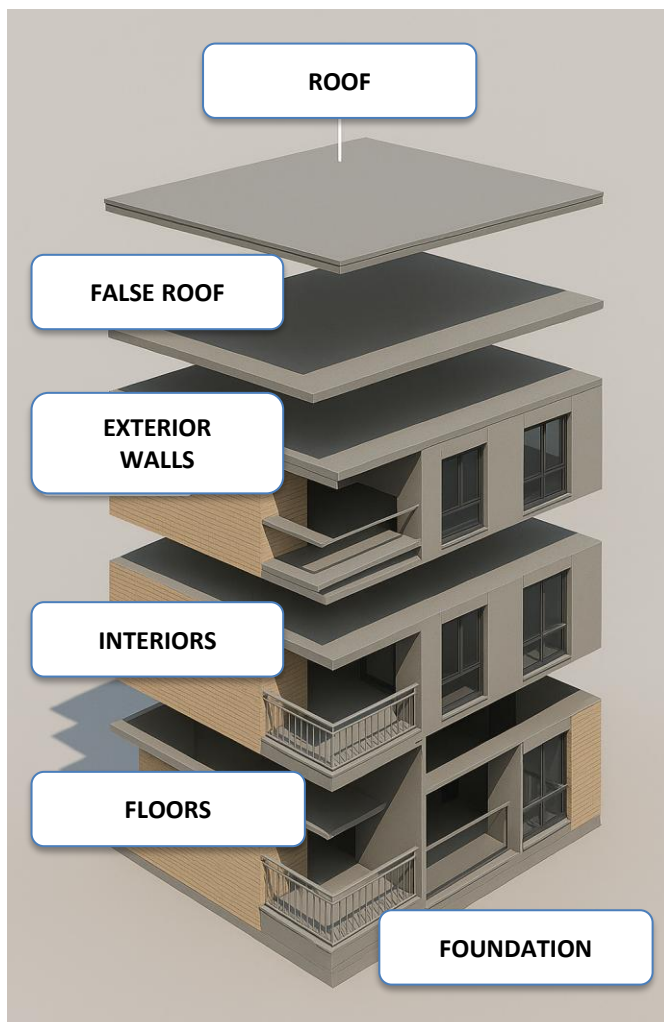


> 50,000 kg of Low Carbon Binder Produced

> 3000 Sq. ft Constructed

Who We Are

SatiQ Concrete Manufacturer Pvt. Ltd. is an IIT Madras—incubated startup offering full-stack solutions for performance-based, sustainable construction. Our approach integrates advanced materials, design innovation, and data-driven methods to deliver durable, eco-efficient, and future-ready building solutions.



Engineered for Longevity

- Stronger and Safer Structures—Rain, Storms, or Earthquake.

Designed for Well-Being

- Enhanced indoor comfort through optimized thermal performance, lighting, and ventilation.

Carbon-Efficient

- Reducing Carbon Footprint for Healthy Planet.

Energy-Efficient

- Climate-ready homes, reduced electricity costs.

Cost-Effective

- Smart solutions tailored to your budget.

About Founders



Dr. Shantanu Bhattacharjee
M.Tech and PhD – IIT Madras



Dr. Smrati Jain
PhD – IIT Guwahati
Post Doc – IIT Madras

- Founders Possess deep expertise in Material Science, Concrete Technology, and Advanced Construction Methods.
- Have over 5 years of hands-on experience in execution of more than a dozen structural projects.
- Pioneered India's first coastal building using carbon-efficient Limestone Calcined Clay Cement (LC3) concrete.
- Aim to establish an enterprise offering comprehensive solutions for advanced, user-centric built environments.
- Vision focuses on two core goals:
 - Enhancing living standards through innovative construction.
 - Ensuring solutions are cost-effective and environmentally sustainable.

What We Do

SatiQ Concrete Manufacturer Pvt. Ltd. is integrating Material Science, Concrete Technology, and Advanced Manufacturing (AI + IoT) to develop Full-Stack Solution for Carbon-Efficient Concrete and Concrete Products.



Performance Enhanced Products



NON-BREAKABLE CONCRETE

- Density – 1500 kg/m³
- Strength – 15 MPa
- No cracks
- Impact resistant
- Concrete's sleek new look: a viable alternative to plastic



ULTRA HIGH PERFORMANCE CONCRETE

- 120 MPa+ Strength
- Excellent flexural strength
- Extremely durable
- Cheaper than other UHPC

LIGHTWEIGHT CONCRETE

- Density – 500 to 1600 kg/m³
- Strength – 15 to 40 MPa
- Tailor-made for Precast applications



AFFORDABLE HOUSING

- Load bearing blocks
- Confined masonry-reduced concrete and steel
- Waste utilisation

CONCRETE FOR FACADES AND INTERIORS

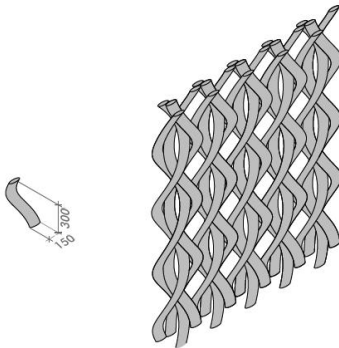
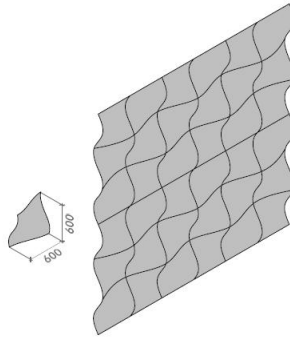
- Facade grade concrete – high flexure strength and MOR
- Shock Absorbing Concrete for floors – High impact resistant



Facades and Jaali

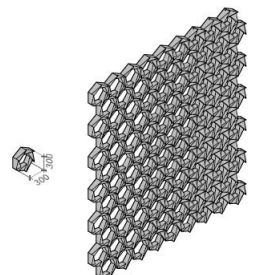
UHPC ULTRA HIGH PERFORMANCE CONCRETE

- 120 MPa+ strength
- Excellent flexural strength
- Extremely durable
- Cheaper than other UHPC



CONCRETE FOR FACADES AND INTERIORS

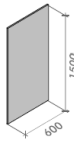
- Facade grade concrete- high flexure strength and MOR
- Shock absorbing concrete for floors, high impact resistant



Walls and Interiors

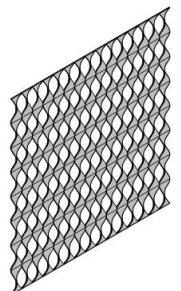
LIGHTWEIGHT CONCRETE PANELS

- Density- 500 to 1600 kg/m³
- Strength 15-40 MPa
- Tailor made for precast applications



NON BREAKABLE CONCRETE

- 15 MPa+ strength
- No cracks
- Impact resistant
- Concrete's sleek, new look and a viable alternate to plastic
- Suitable for intricate doubly curved architectural features



Clients



SLABS

Gurumurthy Engineering Enterprises

Partners



Case Studies



Client: PGP Glasses

Location: Kosamba, Gujarat



Project Details:

G+1 Mould Workshop cast using Low carbon M25 Ready Mix Concrete.

Quantifiable Metrics :

Concrete Volume = 160 cubic meter

Area of construction = >1000 sq. ft.

Case Studies



Client: VSSC ISRO

Location: Thiruvananthapuram



Project Details:

A novel method of manufacturing exterior tiles for spacecraft using alternative materials. The tiles are designed to withstand a temperature of 1000 °C.

Quantifiable Metrics:

No. of tiles manufactured = 17

Case Studies



Client: Sobha Construction

Location: UAE



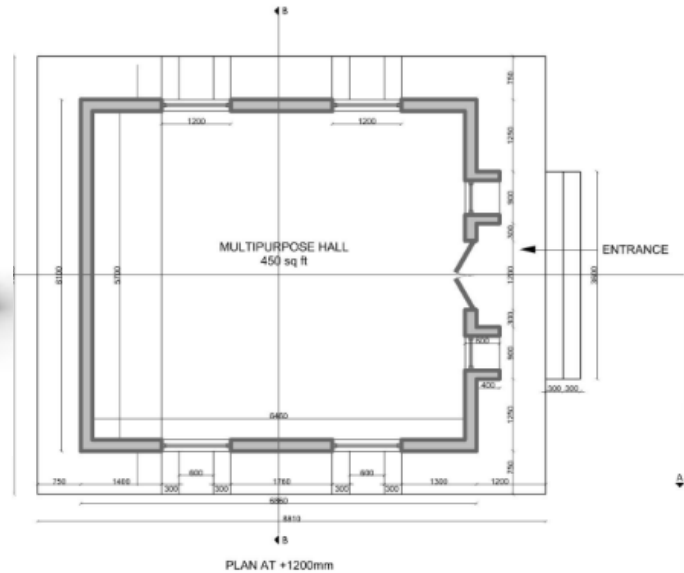
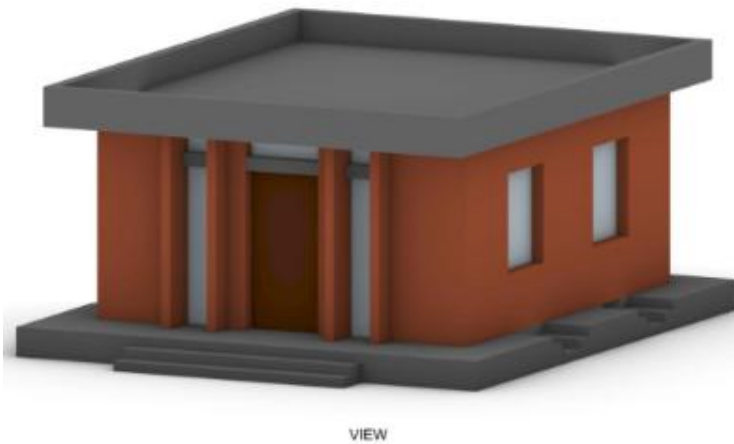
Project Details:

Development of lightweight panels with density of 650- 800 kg/m³ and a compressive strength of more than 6 MPa. The panels are designed considering thermal comfort.

Quantifiable Metrics: `

1st International Project

Case Studies



Client: Habitat for Humanity

Location: Tamil Nadu



Project Details:

Construction of a multi-purpose hall designed on the principles of affordable housing. The structure features load-bearing walls made from carbon-efficient concrete blocks, with tie-beams and tie-columns also constructed using low-carbon concrete for enhanced sustainability and structural performance.

Quantifiable Metrics:

Area of Construction = 500 sq. ft

Case Studies



Client: Mr. Sanjay Jain

Location: Vidisha, Madhya Pradesh

Project Details:

Ground Storey Villa constructed with Low-Carbon Concrete with replacement of 30% of cement with carbon-efficient alternative binder.

Quantifiable Metrics:

Concrete Volume = 15 cubic meter

Area = 1000 sq. ft.

Case Studies



Client: SLABS

Location: Pune, Maharashtra

SLABS

Project Details:

Low-carbon Concrete for Factory foundation. Cement is replaced by 35% of alternative binder. Casting on Site with Self Loading Concrete Mixer.

Quantifiable Metrics:

Concrete Volume = 16 cubic meter

Area of Construction = >500 sq. ft.

Case Studies



Client: Gurumurthy Engineering Enterprises

Location: Chennai

Project Details:

A Low-Carbon, Performance-Enhanced Binder that enables accelerated strength gain, allowing the final product to be ready for dispatch within just 3 days of manufacturing. A total order of 170 metric tons has been placed, with over 12 metric tons already delivered.

Quantifiable Metrics :

Cement Replacement in Concrete = 70 kg per cubic meter

Case Studies



Client: Tvasta Manufacturing Solutions Pvt. Ltd.

Location: Chennai, Tamil Nadu



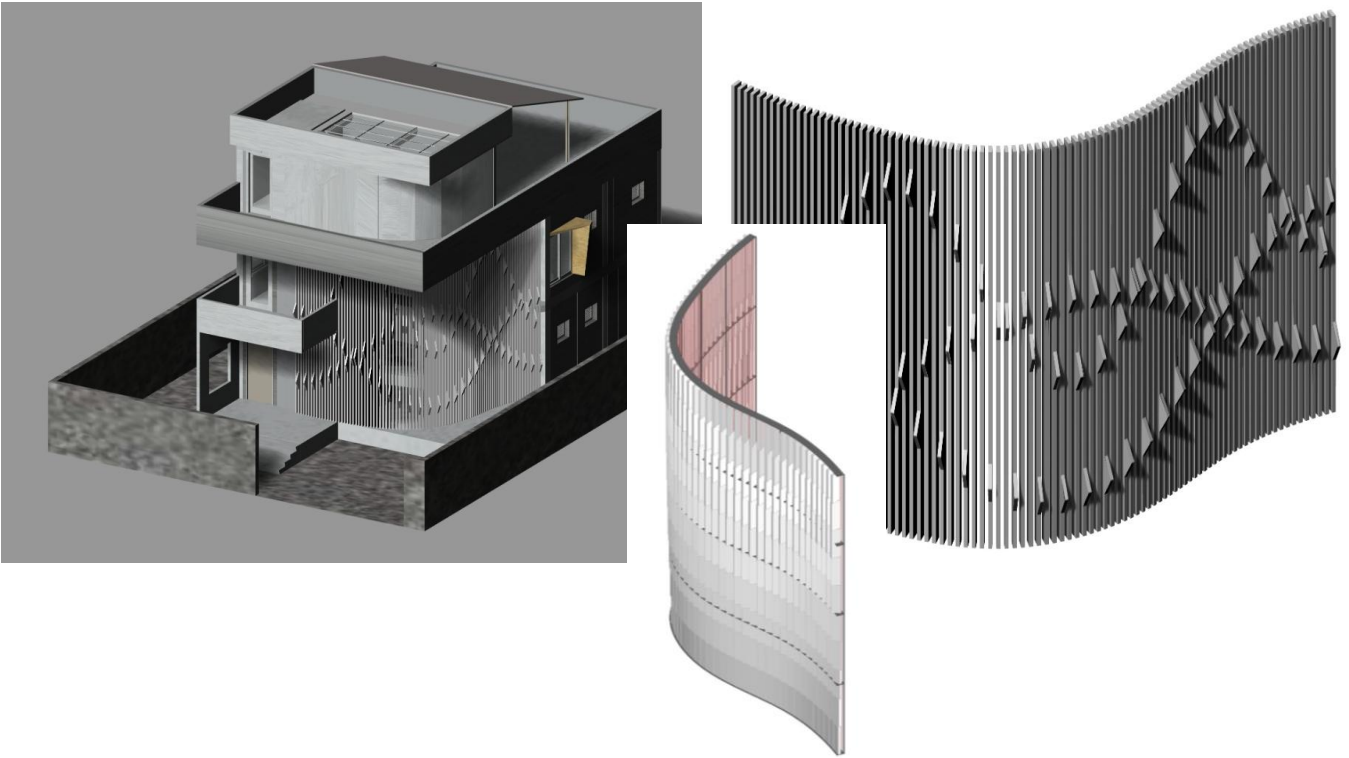
Project Details:

Concrete design optimized for robotic construction of a 2.47-meter Low-Carbon Precast wall panel, completed within 120 minutes using a smart dynamic casting method for enhanced precision and efficiency.

Quantifiable Metrics:

Time of construction = Reduction from 12 hours to 2 hours

Case Studies



Client: Mr. Kishore Kulkarni

Location: Maharashtra

Project Details:

The façade is designed to provide proper daylighting, ventilation, and physical protection while being manufactured with carbon-efficient high-performance concrete.

Quantifiable Metrics:

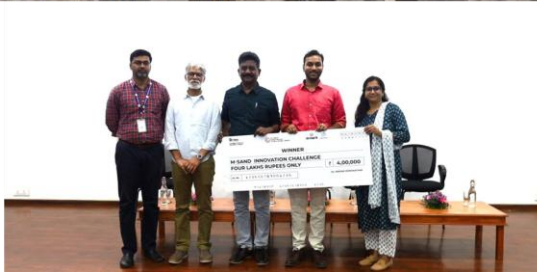
Height of façade = 6 metre

Recognition and Outreach

Startup Maharathi Award - 2025



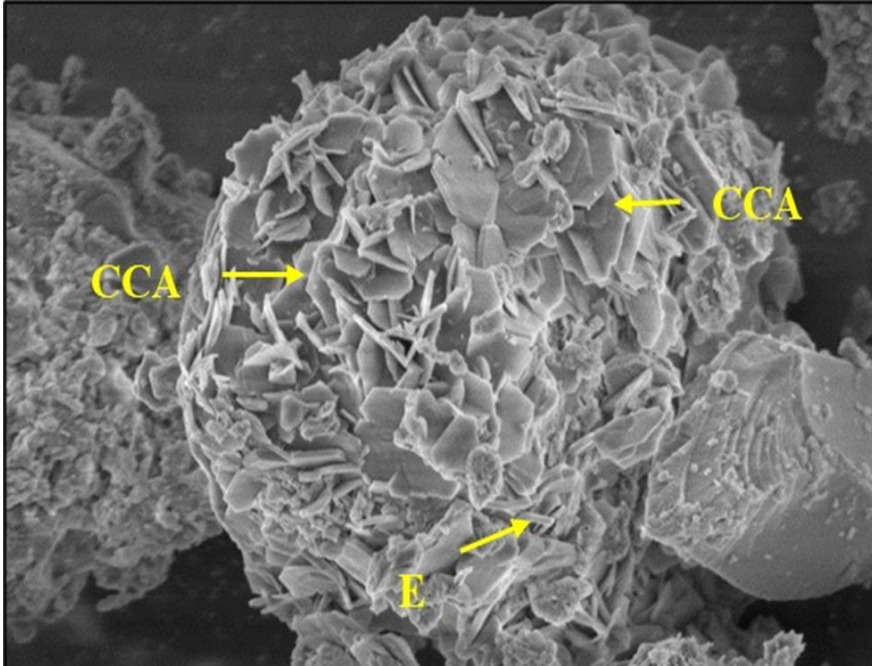
SDI Finals 2025 | Climate Smart Innovation | 23 May 2025



- Startup Maharathi award 2025 (winner),
- Solar decathlon India (top 10 in Climate Smart Innovation) 2025,
- TDCA HDFC Parivartan (winner) 2025,
- Boeing Build (regional winner) 2024,
- M.sand innovation challenge by Habitat for humanity and startup TN, and Kerala startup mission (winner) 2024



Contact Us



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+91-9629889024

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THANK YOU

