

Coordinators

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Milestone

Registration Opens	21 July, 2025
Registration Ends	01 Aug, 2025
Ultrafine Material Collection Last Date	14 Aug, 2025
Trial Mix & Cube Casting	10 Sep, 2025
Submit Cube At Plant Location	24 Sep, 2025
Cube Testing	08 Oct, 2025
Results Announcement	15 Oct, 2025
Award Ceremony	01 Nov, 2025

Awards & Recognition

REGIONS: North, East, West and South

One Winner and one Runner-up from each region in every category.

- Participants will be granted participation certificates
- Most economical designs will be recognized

Scan here for registration



Organizing Committee

Er. Anil K Banchhor

MD & CEO, RDC Concrete (India) Limited

Er. Rajesh. N

Business Head, RDC Concrete (India) Limited

Er. Muralidharan N G

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Asst. Professor/SRMIST, KTR

Dr. S. Dhanasekar

Asst. Professor/SRMIST, KTR

NATIONAL CONCRETE CUBE TEST COMPETITION

Award Ceremony : 01 November, 2025

SEASON 3

Venue : Dr. T.P Ganesan Auditorium,

SRM Institute of Science and Technology, Kattankulathur

Cash Award
₹ 1,00,000



CASH AWARD (in ₹)

CATEGORY	WINNER	RUNNER UP
Students	100000	50000
Professional	50000	25000
Expert	50000	25000

REGIONS: North, East, West and South

One Winner and one Runner-up from each region in every category.

ORGANISED BY

Indian Concrete Institute - Chennai Centre

RDC Concrete (India) Limited

Department of Civil Engineering, SRM IST, Kattankulathur

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OBJECTIVES

The competition promotes proper concrete mixture proportioning and its challenges among students, engineers, and builders, focusing on quality and cost-effectiveness. It emphasizes achieving desired properties like workability, strength, and durability, providing hands-on experience for participants to develop optimal mixes and practical skills for producing high-quality concrete.



SUBMISSION OF ENTRY

Each team must provide four cubes, a mix sheet, and a workability video to their designated regional location. The packing box must indicate the team's name and address. Participants need to submit cubes with a datasheet detailing the concrete mix design, certified by a professor or department head. Submission videos should be uploaded using the QR code.

ELIGIBILITY



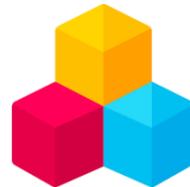
The competition is open to all, and participants must fill out the registration form using the provided QR code. There is no fee for participation. A team can comprise up to three members, with a maximum of two teams allowed from one institution or organization. Institutes can conduct internal evaluations of teams and update final team names later. Registration will be considered on a first-come, first-served basis. More than two registrations from the same institution, if any, will be moved to either the Professional or Expert Category. However, one institution will have a maximum of six registrations only.

MATERIALS



Cubes must use local aggregates meeting IS: 383-2016 standards, max 20mm size. Inclusion of Ultrafine or Microsilica from Ultrafine Mineral and Admixtures Pvt. Ltd. is mandatory into the mix and Free supply for same will be available from nearest RDC plant. Mineral additives, from Ultrafine Minerals, shall be kept between 3-10% of cementitious materials.

DETAILS OF CUBES



Teams must cast and cure the four cubes at their locations on the designated day. After curing for 14 days, on the 15th day the cubes should be marked with X with marker pen from corner to corner and pack the cubes in a polythene bag carefully, duly marked with the name of the participants along with their respective institute/organization.

Each team must submit four cubes meeting standard specifications (15 cm).



TESTING OF CUBES

Cubes will undergo testing at the designated institute/laboratory of each region, and participants are welcome to witness the process. Testing will be conducted according to IS: 516-2021 standards, using direct compression.



STRENGTH CRITERIA

Participants in the

- Student category must strength between 33-35 MPa maintain
- Professional category must maintain strength between 53-55 MPa.
- Experts category should attain not less than 100 MPa on the testing date.



DURABILITY

- Out of four cubes submitted by participants, at random, one cube will be chosen to test the durability parameter. **RCPT** value will be considered for evaluation.



EVALUATION

ICI Chennai Centre, SRMIST-KTR, RDC will appoint jury members, and conclude the finalist. Jury may request clarifications before making decisions. Cubes surpassing 40 MPa or dropping below 30 MPa will be disqualified for the Student category, while those exceeding 60 MPa or falling below 50 MPa will be disqualified for the Professional category. In the Expert category, teams can exceed 100 MPa but must not fall below.

Students and professionals can choose to compete in the 100 MPa category, but experts cannot participate in other strength categories to keep the competition fair for the students!

- Cubes shall be evaluated based on following criteria by the jury members.
- Determining the average strength and deviation of three cubes.
- Assessing deviation among individual test results.
- Evaluating cube appearance and mix sheet.
- Considering mix cost and concrete workability in case of a tie.
- Deducting 1 point for each MPa deviation above or below specified limits.



RESULTS ANNOUNCEMENT

Winners and institutes/organizations respective receive will notification. Certificates and awards will be distributed during separate regional award ceremony.



Student Category

Civil engineering students of Various engineering colleges / Institutions



Professional Category

Practicing Civil engineers Contractors, consultants / test labs



Experts Category

Professional Ready Mix Manufacturers, Third Party Laboratory & University / College professors

