

- 8.6 The cubes shall be sent to the addresses of Convenors at respective location, nearby, to those given at Sr. No. 12 hereinbelow, **so as to reach three days prior to the date of competition.** Delivery of the cubes to the said address is the responsibility of the competitors. All expenses towards cost of materials, casting of cubes, packing and delivering thereof to the said address shall be borne by the competitors. Cubes damaged in transit shall be rejected. Competitors shall have the responsibility of delivering the cubes in good condition.

9 Test of cubes

- 9.1 Testing of cubes will be start at 1000 hrs. On the 15-16 September, 2017 at address of "Convenors".
Competitors are welcome to attend.
- 9.2 Testing will be done as per IS:516. The average strength of 3 cubes in direct compression shall be considered for merit adjudged from following:
- Ratio of strength to cement content.
 - Uniformity of results.
 - Deviation from target strength.

10. Adjudgement

- The Chapter Board of Direction will appoint Judges.
 - The decision of the Judges regarding Acceptability of Cubes for the entry and evaluation of merit shall be final.
 - If asked for, the winners may have to come to the place of testing along with all ingredients to produce a trial mix in presence of the Judges before distribution of Awards.
 - The decision of the Board of Direction of India Chapter of ACI shall be final and binding.
11. All successful candidates shall be informed of the result by post/e-mail. Exact date and venue of distribution of prizes will be intimated separately.
12. Address for correspondence / information:

INDIA CHAPTER OF ACI

2-3 Nagree Terraces, Soonawala Agiary Road,
Mahim (West), Mumbai - 400 016
Tel.: 022-24469175 / 2446 0760 Fax : 022-2446 0760
E-Mail : icaci@gmail.com • Web : www.icaci.com

ABOUT US

The American Concrete Institutes (ACI)

Initially formed as 'National Association of Cement Users' in 1904 and renamed as ACI nine years later, the Institution functions to improve the "Design, Construction, Manufacture". Use of Maintenance of Concrete Products and Structures with the motto 'Progress through Knowledge". With about 20,000 direct members and actively working 88 Chapters all over the world, covering 112 nations it has attained stature as an international organization and is acclaimed as "Treasure House on Concrete" with more than 500 technical documents related to concrete and concrete technology and regular upgradation on the subject. These publications are unique and exclusive. With its Headquarters at Farmington Hills, Michigan, USA, it is further encouraging "Engineering Education, scientific investigation and research by organizing the efforts of its members on non-profit public service basis, in gathering, correlating and disseminating information.

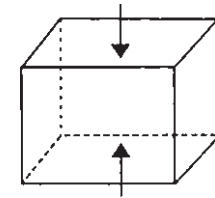
India Chapter of ACI

Indian Professionals exchange information and dissemination of knowledge about concrete technology with USA from the early days of 20th century even before there was ACI. Our Chapter, established on 26th December, 1979, has today an All India membership of more than 1800 individual and organizational members.

Through its continued and tireless services in organizing seminars, workshops, symposia technical meetings with professional bodies special lectures by experts on selected topics and site visits, the Chapter has attained a rare distinction from ACI, USA, as Outstanding chapter for successive years. It was also acknowledged with 'Outstanding International Activity' in 1984 and "Excellent Chapter Award" in 2000 through 2016.

The Chapter has a rich technical library for professionals and research scholars, conducts certification course for 'Construction Supervisors', publishes quality journal and special technical publications to provide information on developments in the field of concrete technology, held annual competition for excellence in concrete through tests of concrete cubes, gave away tri-annual award of outstanding concrete structures and holds interactive meetings with BIS for updating of codes. It is striving today to improve the practice of concrete technology to new heights in the country.

ALL INDIA STUDENTS' "CONCRETE CUBE TEST" COMPETITION - 2017



15th & 16th September, 2017

At
MUMBAI & RAJKOT

Organised by
INDIA CHAPTER
of



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Invitation for

All India Students'

“CONCRETE CUBE TEST” COMPETITION - 2017

Dear Sir,

We cordially invite Students of Civil Engineering/Institute to participate in the All India Concrete Cube Test Competition 2017, to be held by 1st week of September 2017. **The last date for submission of the Cubes for the test is 12th September 2017**, as per guidelines given hereunder.

The competition is only for Students of any Civil Engineering College/Student's Chapters of ACI in the following categories.

- a) Members of Students Chapters of IC-ACI.**
- b) Students of Civil Engineering Disciplines.**

Any Institute not having Students Chapter of ACI, are welcome to initiate modalities for initiation of “Students” Chapter of IC-ACI, at their Institute.

Winners will be awarded attractive trophies and given publicity through the Chapter's Journal, and other technical journal and chapter website. Special prize would be awarded for making concrete with blended cement and/or use of admixtures/fiber.

For this year, an opportunity will be availed of distributing the awards to Winning Groups, at the hands of ACI President Mr. Khaled Awad, who is visiting India, to be at the International Conference, being held by India Chapter of ACI, in Mumbai on 24-25 November, 2017.

We look forward to your participation, for which there is no entry fee.

Thanking you,

Yours faithfully,

SATISH C. DHUPELIA

Past President

**India Chapter of American Concrete Institute
Principal Co-Ordinator**

CONVENOR - MUMBAI

Prof. V. B. Vanvari
IC-ACI Student's Chapter
Bhaghubhai Mafatlal Polytechnic,
Opp. Cooper Hospital,
Vile Parle (West),
Mumbai - 400 056.
Email: vbvanvari@rediffmail.com
vinod.vanvari@sbmp.ac.in

CONVENOR - RAJKOT

Prof. Ankur Bhogayata
IC-ACI Student's Chapter
Faculty of Engineering,
MEFGI,
Rajkot - 360 005.
Email : ankur.bhogayata
@marwadieducation.edu.in

COMPETITIONS GUIDELINES

1. Objectives:

Concrete is the most common and versatile construction material. Those who deal with concrete need to have 'Hands on' experience and genuine feel of concrete making, to understand its quality and behaviour. Concrete making with variations in characteristics of cement, proportioning of aggregates, chemistry of material and chemical admixtures, control of water binder ratio is a challenge to any civil engineer. The India chapter of ACI wants to encourage young Students of Civil Engineering to experience through these competition, the art and science of producing good quality concrete.

2. The Competition:

Produce concrete to achieve, as closely as possible, a compressive strength of 30 Mpa on the day of competition at the time of testing the cubes. Other parameters of mix design maybe chosen by the competitors to obtain the closest specified strength on the day of testing.

3. Eligibility:

- 3.1 The competition is open to all Students of Engineering Colleges, who fall in the category of students of any civil engineering discipline.
- 3.2 A team of competitors shall consist of maximum three participants. More than 1 team from the same institution can take part in the competition, but each team shall have different set of participants and mix design.
- 3.3 The completed 'Data Sheet' must form part of Mix Design Report duly certified by a senior member of the institution, viz Head of The Department / Faculty Member etc. who shall be Professionally responsible for compliance of all guidelines by the participants.

4. Use of Materials

- 4.1 Coarse and fine aggregates from natural sources shall comply with the requirements of IS:383. The maximum size of coarse aggregates, gravel or crushed stones shall not exceed 20 mm.
- 4.2 Cement shall be any of the following:
 - (a) Ordinary Portland Cement (IS:269/IS8112/IS 12269

- (b) Portland Slag Cement (IS : 455)
- (c) Portland Pozzolana Cement (1489 Part I)
- (d) Partial replacement of cement with other Cementitious materials like Fly/Ash etc.

4.3 Chemical admixtures which conform to IS:9103 or ASTM C-494 or 1017, as applicable may be added.

5. Mix Design:

The mix shall be designed to achieve strength of 30 Mpa on 28 days, water cured cube sample, while testing.

6. Cube Specimen:

Cubical test specimens shall be of 150 x 150 x 150 mm in size within a tolerance limit of 2 mm, cast as monolithic one unit. Any reinforcing by provision of bars, fibres or mesh, impregnation with materials like any polymer, epoxy or any synthetic glues or similar binders or modifiers is not permissible.

7. Curing and age of cubes:

- 7.1 Minimum 28 days curing shall be done in clean fresh water at ambient temperature in accordance with Codes.
- 7.2 Age of cubes on the day of testing shall be more than **28 days and less than 36 days.**

8. Submission of entry:

- 8.1 A mix Design Report with all test results of trial mixes and finally adopted mix design, highlighting parameters used to obtain design strength with completed 'Data Sheet' and 'Cement Test Certificate' shall be submitted with each entry in not more than 12 pages in A-4 size paper with 1-1/2 in space typing.
- 8.2 Minimum 3 cubes shall be submitted with each entry.
- 8.3 Marks 'X' from corner of the upward face of the cubes to receive the test load.
- 8.4 Name of participants / organization or their addresses should be indicated or marked on the cubes.
- 8.5 Covering container /package of the cubes be marked with sender's name and address.