



Indian Concrete Institute

# IDENTITY **ROOTS AND INTENT**



## President's Message



As India is embarking on unprecedented growth trajectory, construction of the required infrastructure would be the key. With very ambitious plans in the housing, roads, ports and inland waterways sectors, the focus will be on expeditious construction. Obviously, the prime material of construction Concrete, will be more in demand. There is a need to use every ingredient of concrete optimally and at the same time harness the full potential of every cubic meter of concrete made in every construction, big or small. Structures need to be built with quality assurance at every stage so that they are long lasting. There is a need to use more and more of marginal materials, C&D wastes and build using the most appropriate technology to ensure sustainability in construction. The "know-how" assumes great importance at every level viz. students, masons, supervisors, field and design engineers. The Indian Concrete Institute has embarked on this ambitious journey of disseminating knowledge on Concrete and good construction practices. ICI seeks everyone's active participation in this effort.

A glimpse of the origins of ICI, the present and future activities is given in this small brochure.

**Dr. Manamohan R Kalgal**  
President, Indian Concrete Institute



## Management

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President

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Vice President (E)



## Identity Roots and Intent

Concrete is one of the oldest, versatile and enigmatic construction materials. It is said that concrete in one form or the other has been in use for centuries now. Some researchers have said that concrete-like materials were used as early as 6500BC! The use of hydraulic lime is said to be the precursor of the modern cementing materials which came in later. Romans and Egyptians mastered the art of making concrete with volcanic ash and Romans used concrete extensively in their constructions. Although after Roman empire the use of burned lime and puzzolanas diminished and was almost forgotten, cement and concrete making gradually regained momentum after 14th century.

After the invention of Ordinary Portland Cement by Joseph Aspdin in 1824, the evolution of concrete started with renewed tempo. From a simple mixture of cement, aggregates and water concrete has grown into a plethora of special concretes engineered for specific uses with multiple performance attributes.

Today Concrete is ubiquitous in our built environment - be it in buildings, roads, bridges, railways, or dams. The consumption of concrete per year is about 9 billion tonnes by one estimate. Global growth in concrete consumption is partly due to the rapid industrialization of developing countries such as China and India. In the developed world, demand is driven more by the need to replace, repair, and retrofit existing structures. Concrete is considered to be a sustainable material for construction in comparison to the available alternatives of similar vir-

tues. However, efforts are on to further reduce the environmental impact by using concretes with lesser or no OPC content.

Indian Concrete Institute is one of the leading professional bodies in India, catering to the professional needs of individuals and organisations involved with Concrete. Being a non-profit Organisation, it is dedicated to the cause of Disseminating Knowledge on Concrete, to Promote Concrete Technology and Construction as well as address the Research Needs of Concrete.

The Genesis of ICI dates back to the year 1982, when SERC Chennai and Anna University jointly conducted an International Seminar on Modern Concrete Construction Practices. The overwhelming response to the seminar prompted the Organisers to start the Indian Concrete Institute. Thus, the ICI was born in 1982 with around 500 members from 5 regional Centres. Since then, ICI has been growing by leaps and bounds.

Today ICI is a strong professional body having more than 12,000 enrolled members, from 38 regional Centres spread across the entire length and breadth of the country. There are more than 270 Organisational Members. It has 170 student chapters. All segments of cement and concrete industries are widely represented in the membership.

## Location of Centres

- ♦ Ahmedabad
- ♦ Allahabad
- ♦ Amravati
- ♦ Bengaluru
- ♦ Bhopal
- ♦ Bhubaneswar
- ♦ Calicut
- ♦ Chandigarh
- ♦ Chattisgarh
- ♦ Chennai
- ♦ Coimbatore
- ♦ Ghaziabad
- ♦ Goa
- ♦ Guwahati
- ♦ Gwalior
- ♦ Hubballi
- ♦ Hyderabad
- ♦ Jaipur
- ♦ Kochi
- ♦ Kolkata
- ♦ Lucknow
- ♦ Madurai
- ♦ Mangaluru
- ♦ Manipur
- ♦ Mumbai
- ♦ Nagpur
- ♦ New Delhi
- ♦ Puducherry
- ♦ Pune
- ♦ Raipur
- ♦ Salem
- ♦ Siliguri
- ♦ Surat
- ♦ Thiruvananthapuram
- ♦ Trichy
- ♦ Uttarakhand
- ♦ Varanasi
- ♦ Vizag

## Prime Objectives of ICI

- ◆ To promote the growth of concrete construction and its sub-specializations.
- ◆ To disseminate information and to arrange to train personnel for the needs of changing concepts in the technology.
- ◆ To collaborate with national and international agencies in creating a better understanding of concrete construction technology.
- ◆ To Bring out Technical Documents for the benefit of practitioners
- ◆ To identify R & D problems of practical relevance to concrete construction technology.
- ◆ To institute and distribute awards for outstanding achievements in concrete construction technology.
- ◆ To arrange periodical seminars and exhibitions on the subject.
- ◆ To arrange annual lecture series on selected topics of relevance to concrete constructions.

## Knowledge Dissemination Mediums

- ◆ Workshops ◆ Seminars ◆ Conferences ◆ Exhibitions ◆ Deminars
- ◆ Training Programmes ◆ Technical Documents



Conference & Exhibition on Concrete & Structures



ICI-fib Workshop on 'Service Life Design of Concrete Structures'



ACF - Sustainability Forum 2012



Exhibition-cum-Seminar on Emerging Fast Track Technologies for Mass Housing



Concrete Panorama and Deminar 2016 – Bengaluru

## Benefits of an ICI Member

- ◆ Concessional Delegate fee for participation in National / International ICI events, to get updated on the latest technology & practices in Concrete Industry.
- ◆ Can Contest for representation in Governing Council.
- ◆ Opportunity to Participate in various Standing Committees.
- ◆ Access to Job Portal & E-learning Portal.
- ◆ Receipt of quarterly ICI Journal which carries valuable technical articles.
- ◆ "ICI-Update" a monthly e-bulletin from ICI, to keep abreast of the happenings in ICI and to know the Forthcoming Events.
- ◆ Submission of Technical Paper to be published in ICI Journal.
- ◆ Concessional rates for Publications of ICI.
- ◆ Access to ICI reference library.
- ◆ Support from ICI to conduct Training Programmes, Workshops, Seminars, Symposia, etc.

The events conducted by ICI provide an unique platform to learn and share the best practices in making good concrete where sellers and buyers meet together.

## Mentoring the Construction Industry

- ◆ Indian concrete institute (ICI) came into existence to create the awareness amongst the construction engineers about modern concrete construction practices.
- ◆ Concrete day- An annual event of all centers to celebrate the formation of ICI on 7th September from different segments to interact.



## Deriving the Synergy Between all Segments

- ◆ ICI brings about the synergy amongst the various categories of people associated with concrete.
- ◆ To meet the objectives of ICI, the regional Centres conduct varieties of programs like Seminars, Workshops, Conferences, Exhibitions, etc. throughout the year. These are at both National and International level.
- ◆ These events prove to be a unique platform, for all the stakeholders in the concrete industry, wherein Practicing Engineers, Manufacturers, Academics, Consultants and Researchers make their global participation, to discuss the issues, to share their views and experience on the concrete related matters.



## Recognizing Talent

- ◆ ICI identifies, recognizes and rewards the experts in the field of concrete for their contributors.
- ◆ Sixteen such awards are presented every year at the time of AGM.
- ◆ ICI brings out several publications, proceedings of all the important events for the benefit of members and others.
- ◆ Work is on to bring out a journal of an International Standard, through world renowned publisher ICI identifies, recognizes and rewards the experts in the field of concrete for their contributors.



## Working with Government Bodies

- ◆ ICI works in close coordination with various Central and State Government Bodies like CPWD, PWDs, Municipal Corporation etc., for the adoption of Latest Technologies and practices in Infrastructure Building.
- ◆ ICI is represented on several Codal Committees of BIS.



## Embracing Budding Civil Engineers

- ◆ ICI embraces budding civil engineers through ICI Students Chapters.
- ◆ There are more than 152 students chapters, all over the country and this number is on the increase.
- ◆ The very objective of these students' chapters is to bridge the gap between their theoretical knowledge and what is being practiced in the field.
- ◆ Their involvement in ICI activities helps them shape themselves to face the challenges in the field, when they come out of the Institutions and enhance their Employability Quotient.
- ◆ ICI also conducts value-added courses in concrete for the benefit of Practicing Engineers and Students.



## Commitment to Promote Sustainable Development

- ICI is committed to the society for its well-being.
- ICI is focused towards advocating the concept of sustainability in construction practices.
- Many of the ICI events are focused on achieving sustainability through innovative materials and techniques.
- Response to such programmes from Government Bodies is overwhelming.



## Technical Documents

- A professional body is recognised by the technical documents it creates.
- Today at ICI, SEVERAL Technical Committees are striving hard to bring out technical documents to frame guidelines, to standardize, to fix norms for various specialty, concretes and construction practices, to create unified code and to bring about Hand Books etc.
- Two excellent publications are already released and many more are on the offering.

## Facilitation of E-Learning

- ICI provides e-learning facilities as well In this modern era of technology.
- The courses offered are; Fundamentals of Concrete and Basics of cement.
- More e-learning modules prepared by the industry prepared by the industry experts are being uploaded shortly.
- This mode of learning is expected to bridge the gap between the academics and industry expectations.



## ICI - Branded Events

### ICI-ACECON

- Asian Conference on 'Ecstasy in Concrete'
- Event organised once every 5 years
- A platform in which experts from all over the world, more specifically from Asian countries participate interact

### ICI-IWC

- Innovative World of Concrete
- Event organised once every 5 years
- An international Conference cum Exhibition to discuss and disseminate knowledge on concrete



ACF Symposium 2015



ACECON 2015 - Book release

## Technical Committees of ICI

- ◆ Fibre Reinforced Concrete
- ◆ Precast Construction of Buildings
- ◆ Concrete Admixtures
- ◆ Recycling of C & D Wastes
- ◆ Decorative Concrete
- ◆ Alternative to River Sand
- ◆ Guidelines for Specifying Durability
- ◆ Industrial Flooring
- ◆ Guidelines for Waterproofing System

## ICI Collaboration with International Agencies

- ◆ ICI is an active participant in Asian Concrete Federation[ACF], which is a cluster of ten Asian Countries
- ◆ ICI has entered into an MOU with other concrete institutes like Singapore concrete Institute Concrete, Concrete Institute of Australia, Korean Concrete Institute, American Concrete Institute and RILEM
- ◆ It is for an exchange of technological information, technical documents and to organize programmes jointly.



## ICI Technology Centre





## Contribution Towards the Technology Center

Would be accepted in the form of Cheque or DD drawn in favour of "Indian Concrete Institute Building Fund" or Net transfer

Account No:	Bank Name:	Branch Name:	A/c Type:	RTGS/NEFT/IFSC Code:
000101234368	ICICI Bank	Cenotaph Road Branch, Chennai	SB Account	ICIC0000001

Online payment is possible through [www.indianconcreteinstitute.org](http://www.indianconcreteinstitute.org)

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