



**INDIAN CONCRETE INSTITUTE**  
BENGALURU CENTRE



Two-Day International Seminar Cum Deminar  
**LIVE PRODUCT DEMONSTRATION AND EXHIBITION ON**

# Alternative Materials and Innovative Concrete Technologies in Construction



**11th - 12th February 2021**

**Venue:**  
**NIMHANS Convention Centre**  
**Bengaluru**

**SUPPORTING ORGANISATIONS**



Association of Consulting  
Civil Engineers (India)



Institute for Research, Development and  
Training of Construction Trades and Management



Ready Mixed Concrete  
Manufacturers' Association



Construction Chemicals  
Manufacturers Association



Structural Engineers  
World Congress

**OFFICIAL MEDIA PARTNER**



Infra Development & Const. Equipment Magazine

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**LIVE STREAMING PARTNER**



## Alternative Materials and Technologies

In this fast developing world, it becomes very important for us as Civil Engineers, Architects and Builders to focus both on the global development and also its impact on the environment. This kind of approach leads to many innovations and researches which helps in conserving the environment without compromising on the developments. Construction industry has been associated with the materials which were being used about a century back and are still very popular. Variety of alternative building materials which are eco-friendly and sustainable are made available which provide better, efficient, durable and cost effective construction and also ensure judicious utilization of available limited resources with least possible degradation of environment.

Building materials and technologies and building practices have evolved continuously. Housing and building conditions reflect the living standards of a society. Stones, mud, thatch and timber represent the earliest building materials used for the construction of dwellings. Hardly any energy is spent in manufacturing and use of these materials for construction. Durability of the materials, directly derived from the natural materials like soil, thatch, timber etc. is questionable.

The demand for building materials has been continuously rising with the increasing need for housing both in rural and urban areas. Commercial exploitation of traditional building materials by various industries has aggravated the situation. It has, therefore become necessary to think over this problem seriously and to provide some sustainable solution to make the alternative materials available to solve the housing problem.

A large number of viable alternative building materials and technologies have been developed and disseminated in the recent times. Some of these materials are supplementary cementitious materials (SCMs) like Flyash, GGBS, Ultrafine Slag, Ultrafine fly ash, Micro silica, Metakaolin, Rice husk ash which help in partial replacement of OPC Cement. Per tonne of OPC Cement liberates about 0.6 to 0.8 tonne of CO<sub>2</sub> in manufacturing process contributing to 5 to 6 % of the total global CO<sub>2</sub> emissions and also consuming about 1.5 tonne of Lime stones from Nature. Now a days there are many Alternatives products to river sand and Aggregates

The Alternative building technologies are; Dry wall technologies, Precast products, Architectural decorative products, Stabilized mud blocks, AAC Blocks, Fine concrete blocks, Rammed earth blocks, Mud concrete blocks, Lime pozolona cement, Soil-lime plaster, Composite mortars for masonry, Composite beam and panel roofs, Reinforced brickwork roof, Ferro cement and ferroconcrete roofing systems, Geo-polymer concrete, Unreinforced masonry vaults and domes, Ribbed slab construction, Filler slab roofs, Rammed earth foundations, Reinforced block-work lintels and precast chejjas.

It is important to educate the people in the industry to bring awareness about the alternate building materials and technologies and make them to understand and adopt them in their constructions. Usage of the eco-friendly and sustainable materials will only prove to be beneficial in the future, helping the construction industry to use sustainable construction solutions and making the world a better place.

In line with the above developments ICI-BC is organizing a two days International seminar and Deminar 2021 on "Alternative materials and Technologies"



## THEMES

- Precast Concrete Technologies
- Green Building Materials & Eco-friendly Construction
- Waterproofing System
- Innovation in Rehabilitation & Restoration
- Smart Materials in Special Concrete – Geopolymer etc
- Equipment for Production of Special Concrete
- Admixtures for Production of Special Concrete in RMC
- Quality Practises & Testing of Concrete Making Materials
- Heritage Structures & Renovation Technologies
- Artificial Intelligence in Construction Industries
- Pervious Concrete & Decorative Concrete
- Formwork for Concrete Construction & Detailing of Reinforcement – Readymade Steel, etc.

## WHO SHOULD PARTICIPATE ?

Professionals from Civil Engineering field, RMC Industry, Cement manufacturers, Construction & Chemical Industry, Material & Equipment Manufacturers, Architects and structural consultants, Decision makers from Government and Private Sectors such as Bangalore Metro, Bangalore Development Authority, Bangalore Mahanagara Palike, CPWD, PWD, BWSSB, KUIDFC, Academic and Research experts across India and Abroad.

Companies and their subsidiary services make use of these opportunities to show case their products. This kind of Deminar is the only one in India which is so popular among engineers to learn through practical demonstration about new products and technologies.

Eminent personalities in the field of Concrete Technology with a special focus on Manifestations, will be invited to deliver lectures during the seminar. This Two-day event will witness extensive participation.

The Deminars (combination of demonstration and seminar) organized by ICI provide a unique platform for learning. This time the subject "Alternative Materials and Innovative Concrete Technologies in Construction" has been chosen to provide an opportunity for the companies who are capable of enabling the production of Special Concretes to demonstrate the feasibility, the materials, procedure and care involved. This will give not only awareness but also confidence to the participants to use these special variants to their advantage.

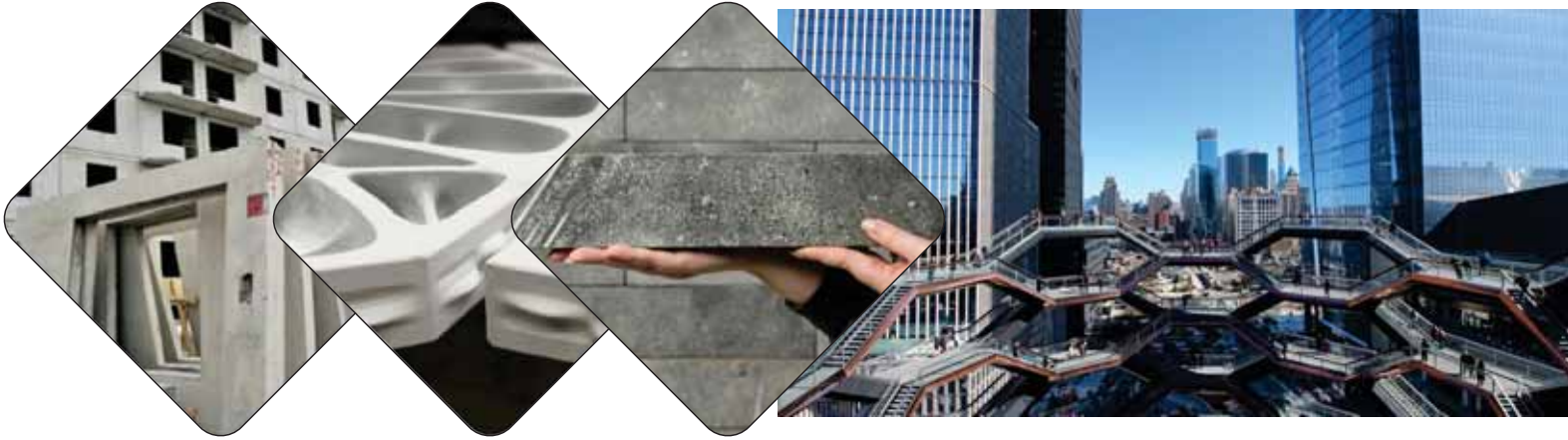


## Delegate Fee (Inclusive of GST @ 18%)

Members of ICI & Supporting Professional Associates	Rs 3000
Others	Rs 4000
ICI Student Members	Rs 1500
Student Non-Members / Research Scholars	Rs 2000

### Registration fees for Two-day includes:-

Delegate Kit, Conference Proceeding (CD) Souvenir, Lunch-Coffee/Tea & Certificate of Participation



## Sponsorship And Entitlements

PART I							(Exclusive of GST 18 %)	
	Chief Patron	Patron	Associate Patron	Sponsors	Demonstrator	Exhibitor stall Inner stall	Exhibitor stall Outer stall	
Amount ₹	7,00,000	3,00,000	2,00,000	1,00,000	1,00,000	40,000	30,000	
Complimentary Delegates	15	10	6	4	4	2	2	
Exhibitors space (Stall- 3 mtrs x 3 mtrs)	2	1	1	1	No	1	1	
Advertisement in Souvenir (Page)	Front Inner	Back Inner	Inside Full	Inside Full	Inside Full	Inside Full	Inside Full	
Company Logo will appear in the all brochures	Free	Free	Free	Free	Free	Free	Free	
Logo Display @ Welcome Banner/ Stage backdrop	Free	Free	Free	Free	Free	Free	Free	
Distribution of Product Literatures to Delegates	Free	Free	Free	Free	Free	Free	Free	
Corporate Presentation	20 min	15 min	10 min	5 min	No	No	No	
Product Demonstration	Yes	Yes	Yes	No	Yes	No	No	

### SUPPORTING ORGANISATION: (Inclusive of GST @ 18%)

₹ 30,000/-

#### Registration fees for Two-day includes: –

Complimentary Delegates – 4  
Advertisement in Souvenir – One full page, Logo Display in Brochure, Stage Backdrop & Welcome banner  
To Insert Material in a Kit (Marketing Collaterals)

### SOUVENIR ADVERTISEMENTS:

A Souvenir will be published on this occasion. Advertisements will be included in the Souvenir. The tariffs for the advertisements are as follows (which includes 18% GST as per Government directives)

Full page Colour	₹	12,000/-
Half page Colour	₹	8,000/-

## EXHIBITION:

Concurrently with the conference, an Exhibition & Product Demonstration is also being planned on the themes of the Conference with many exhibitors displaying the latest equipments, techniques, services and software

**Note:** All payments should be made in full, Cheque/DD to be drawn in favour of “Indian Concrete Institute – Bangalore Centre, Karnataka”. Payments can also be made by electronic transfer. (Details given in Registration form)

### For Payment through online banking, please note the following details: *Electronic Transfer: RTGS / NEFT Details :*

Account Name : Indian Concrete Institute – Karnataka, Bangalore Centre  
Account No. : 04121010000530  
Account Type : Current Account  
Name of Bank : Syndicate Bank  
IFSC Code : SYNB0000412  
Branch Name & Address : J.C. Road Branch, Jasmine Mansion, J C Road, Bengaluru – 560 002 Karnataka.  
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**CALL FOR PAPERS**

Original technical / research papers are invited to be presented either in person or through pin-up paper display. Authors are requested to send the full length paper not exceeding 6 pages, preferably by 15th June 2020. The manuscript must be in word format with ready to publish format. The papers will be subject to peer review as well as checks for plagiarism. Notwithstanding checks for plagiarism, authors shall be solely responsible to ensure authenticity and ownership of their papers. If papers do not add value or not meritorious for presentation / publication, they shall be rejected. Organisers shall not be liable for whatever & whatsoever in this regards, they will not be accepted for publication. However, authors can present papers without any assurance on publication.

- **Last date for submitting Full length Paper : 31st August 2020**
- **Last date for acceptance communication of the Full length Paper : 30th September 2020**
- **Receipt of corrected papers along with authors registration: 2nd November 2020**

Camera-ready-proof-papers can be sent to [secretary.icbc@gmail.com](mailto:secretary.icbc@gmail.com) with a copy to [ici.bglr@gmail.com](mailto:ici.bglr@gmail.com). Authors presenting their papers shall register for Deminar 2021 without fail.

All the accepted full length papers will be published in NBM&CW (New Building Materials and Construction World) - a 26-year old publication (ISSN 0973 - 0591), focused on civil construction. It will also be uploaded on its web portal [www.nbmcw.com](http://www.nbmcw.com), which is no 1 in construction industry as per US based rating agency (Alexa), and being visited by 200 countries.

**NBM&CW**  
 Infra Development & Const. Equipment Magazine

**ABOUT ICI (BENC)**

ICI was born on 7th September 1982 with Head Quarter at Chennai:

- ICI - Life Membership (ALL INDIA) - 12670
- ICI - Centres - 40
- ICI - Student Chapters - 246
- ICI - Student Members - 7000
- ICI - Organizational Members - 343
- ICI - Corporate Video
- ICI - Student Video
- ICI - Corporate Brochure

ICI - Bengaluru Centre, Karnataka was started in the year 1984

- ICI - Life Membership (KARNATAKA): 781
- ICI - Centres : 03
- ICI - Student Chapters : 53
- ICI - Student Members : 2500
- ICI - Organizational Life Members-28 / Annual Members-09
- ICI - Bengaluru Centre, is successfully being run by an able adoptive and progressive managing committee since then. It is one of the active centres which conduct several programs every year. The membership is growing progressively day by day.

**OBJECTIVES**

- Promote growth of concrete construction and its sub-specialization
- To disseminate information and train personnel by organizing seminars / conferences / workshops
- Training programs for Fellow Members / Students and Corporate
- Collaborate with National / International Agencies
- Identify R & D problems of practical relevance
- Arrange National and International Workshops, Conferences
- Seminars, Deminars & Exhibitions, Arrange Annual Lecture series on selected topics of relevance to Concrete Constructions
- To identify and recognize outstanding construction and outstanding performers in the field of Concrete Technology / Construction.

**ICI - BENGALURU CENTRE, KARNATAKA has 53 Student Chapters**

- |   |   |  |
|---|---|--|
| 1 Siddaganga Institute of Technology                  | 19 New Horizon College of Engineering                     | 37 Jyothy Institute Of Technology                                  |
| 2 M.V.J College of Engineering                        | 20 Sri Venkateshwara College of Engineering               | 38 Kuppam Engineering College                                      |
| 3 Bangalore University                                | 21 East Point College of Engineering & Technology         | 39 Ballari Inst. Of Tech. And Management                           |
| 4 Vivekananda College of Engineering and Technology   | 22 Rao bahadur Y. Mahabaleswarappa Engineering College    | 40 Dayananda Sagar College Of Engineering - CTM                    |
| 5 R.V. College Of Engineering                         | 23 M.S. Ramaiah Institute of Technology                   | 41 Sapthagiri College of Engineering                               |
| 6 Global Academy of Technology                        | 24 School of Engineering and Technology, Jain University  | 42 Sri Siddhartha Institute of Technology                          |
| 7 J.N.N College of Engineering                        | 25 Dayananda Sagar College of Engineering                 | 43 Sambhram Institute Of Technology                                |
| 8 Christ University Faculty of Engineering            | 26 RASTA - Centre for Road Technology                     | 44 CMR Institute of Technology                                     |
| 9 J.S.S. Academy of Technical Education               | 27 Nitte Meenakshi Institute of Technology                | 45 Acharya Institute of Technology                                 |
| 10 BMS College of Engineering                         | 28 A.C.S. College of Engineering                          | 46 Dr. T Thimmaiah Institute of Technology-KGF                     |
| 11 SJB Institute of Technology                        | 29 Cambridge Institute of Technology                      | 47 Shri Madhwa Vadiraja Institute Of Technology & Management-udupi |
| 12 PES Institute of Technology                        | 30 B.V. Bhoomaraddi College of Engineering and Technology | 48 Rajarajeswari College Of Engineering, Bengaluru                 |
| 13 Sri Jagadguru Chandrashekarnatha Institute of Tech | 31 AMC Engineering College                                | 49 P E S College of Engineering - Mandya                           |
| 14 BMS Institute of Technology and Management         | 32 Dayananda Sagar Academy Technology & Management        | 50 APS College Of Engineering, Bengaluru                           |
| 15 Sir.M. Visvesvaraya Institute of Technology        | 33 Nagarjuna College of Engineering and Technology        | 51 GM Institute of Technology, Davangere                           |
| 16 Sri Jayachamarajendra College of Engineering       | 34 School of Engineering, Reva University                 | 52 S. G. Balekundri Institute Of Technology, Belagavi              |
| 17 East West Institute of Technology                  | 35 Don Bosco Institute of Technology                      | 53 Maharaja Institute Of Technology, Mysore                        |
| 18 Bangalore Institute of Technology                  | 36 City Engineering College                               |  |

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