



Housing For All (Urban) by 2022



## International Seminar on

# Emerging Building Materials and Construction Technologies

March 21 – 22, 2016

Stein Auditorium  
India Habitat Centre  
Lodhi Road, New Delhi

*An invitation to policy makers, professionals, technology providers, entrepreneurs, housing experts, users - to share innovative approaches and technologies*



**Building Materials & Technology Promotion Council**  
Ministry of Housing & Urban Poverty Alleviation  
Government of India

“Creating Enabling Environment for Affordable Housing for All”

## Background

India is among one of the fastest developing countries in the world. The progress and growth of the Indian economy is governed by a number of factors. Developing infrastructure and housing are two important contributors of progress and growing economy. Despite of multi-dimensional progress in various other sectors, the infrastructure and housing have still not gained the required momentum in the country. Shortage of basic materials, environmental concerns in using conventional materials and operatives are big bottlenecks in achieving the desired results. In India, a lot of research and development have taken place in the areas of new and innovative building materials, products and construction practices. A majority of these have been standardized at national level, commercialized and are successfully used in construction sector. Still there are number of innovative materials and technologies both indigenously developed and from abroad, which have potential for use and open for commercial exploitation.

The various initiatives of the government taken recently for improving the infrastructure and housing condition in urban areas, particularly "Housing for All Mission" have thrown a big challenge for construction industry to use building materials and technologies in most effective way keeping quality, durability, speed, safety, environmental and energy concerns in mind for construction of houses and other related buildings. This also gives a big opportunity to introduce innovative materials & products in building construction.

To erect a building/house or complex for functional use, different building materials, components and construction system/process including cement, concrete, walling components, roofing components, plumbing fixtures, sanitation water proofing materials, prefab and mechanized system, finishes etc. are required. There have been technological advancement in all the above areas and it is right time to take stock of such advancement so as to identify and select the best practices for future construction of buildings and dwelling units in the country, for overall sustainable development.

Building Materials & Technology Promotion Council (BMTPC), Ministry of Housing and Urban Poverty Alleviation, Government of India, is organising a two days International Seminar on the topic *Emerging Building Materials and Construction Technologies* to address this pertinent issue. The International Seminar aims to bring engineers, architects, technology providers, plant & machinery manufacturers, users, govt. agencies and other stakeholders, looking for emerging building materials and technologies and construction practices, on one platform to bring awareness and share the knowledge and experience on new emerging building materials & practices. To coincide with the main event, an Exhibition will also be organised for the benefit of the participants. The Council has planned the whole seminar under various sub-themes to have detailed discussions and each session will be addressed by the eminent key experts working in that area for the benefit of participants during the seminar.

### Participants of the Seminar

- Researchers/students working in the area of housing & human settlements
- Engineers, Architects, Developers, Construction Agencies
- Technology Providers of mass housing technologies
- Representatives of agricultural, industrial and mining sectors
- Academicians from various engineering & architectural colleges
- Technocrats involved in housing activities/programmes
- Government and Non-Government Organizations
- Funding agencies related to mass housing construction
- Students of engineering and architectural courses
- Plant / Machine manufacturers, Product manufacturers
- International agencies working for environment friendly materials and construction technologies

### Exhibitor's Profile

- Innovative Building Products & Technologies
- Panel Building System using steel mesh, polystyrene core and chipping concrete
- Technology using expanded steel mesh, polystyrene beads & alleviated concrete
- Pre-stressed precast prefab technology using hollow core slab, beams, columns, solid walls, stairs, etc.
- Monolithic Concrete Construction using Aluminium/Plastic Formwork
- Industrialised 3S system using cellular light weight concrete slabs & precast columns
- GFRG/Rapidwall Building System Technology
- Alternative Doors and Window Frames
- Municipal Solid Waste Recycling Technology
- Construction and Demolition Waste Recycling Technology
- Glass Reinforced Polymer Composite
- Construction agencies involved in mass housing projects
- Companies in the area of sanitation, road transport and infrastructure
- State agencies involved in city and infrastructure development.
- Pre engineered buildings
- Plumbing, Water proofing and Construction Chemicals
- Cementitious products and Steel structural reinforcement

## Topics for Paper Presentations\*

### Innovation in Cement, Concrete, Bricks, Steel & Reinforcement

- Green Cement
- limestone, Calcined Clay cement
- Alternative of Natural Fine & Coarse Aggregate
- Ready Mix Concrete for sustainable construction
- Geopolymer Concrete
- Application of Real Paste Concept on Mix Design of Pumping Concrete as per IS methods.
- Recent development in high strength reinforcement bars
- Innovative use of steel in construction.

### Agro – Industrial & Construction Waste in Construction

- Status of Flyash utilization & future prospects for sustainable construction.
- Construction & Demolition Waste – Present scenario and future prospects.
- Kota Stone waste in building industry
- Marble / Granite wastes in building industry
- Use of Red Mud in Building Products

### Innovation in Brick, Blocks & Masonry

- Brick, Blocks & Stone in Building Construction
- Cost effective Block Masonry for earthquake resistant construction.
- Potential of Aerated concrete Blocks for sustainability.
- Confined Masonry
- Perforated Clay Brick Masonry
- Low Cost Brick Roof

### Emerging Construction Technologies including Disaster Resistant Construction

- EPS based Core Panel Systems.
- Prefabricated Construction System.
- Sandwich Panel System.
- Nano Technology in Construction
- Light Gauge Steel Structure
- GFRG System

### Emerging Construction Technologies including Disaster Resistant Construction

- Steel Prefabricated Structure
- Formwork system
- State of the art of earthquake resistant sandwich panel.
- Indigenous development of rubber bearing for base isolation of building.

### Waterproofing and Construction Chemical / Plumbing Services Sanitation, Waste Water Treatment.

- State of the Art Chemical for Concrete and waterproofing system
- Nano technology based waterproofing system
- Polyurethane based waterproofing system
- Sound proof piping system.
- Decentralised waste water treatment system.

### Insulation & Finishes (Tiles / Paints/ Coatings)

- Elastomeric Putty
- Heat Resistant Tiles
- Rust inhibitor primer
- Emerging trends in insulation materials & technique

### Timber Substitute for Building Industry

- Bamboo as structural members for sustainable construction.
- Laminated veneer lumber
- Bamboo as reinforcement for construction of houses
- Coir and jute fibre based products.

### Standardization / Evaluation / Green initiative / Energy Efficiency

- Approach to sustainability – Chapter 11 of NBC
- Multi Attributes Evaluation Criteria
- PACs
- Green Rating System

### Energy Efficiency in Buildings

- Passive Architecture
- New Renewal Energy resources.

\* *The other relevant topics are also invited.*

## Exhibition and Sponsorship Fee:

The rate for putting up display in the exhibition is Rs.4000 per sqm. for built up space inclusive of taxes. There is no registration fee for participation in the seminar. The Sponsorship Fee for the seminar and exhibition is as given below:

S. No.	Category	Amount in Rs.	Amount in US\$	Free Built up space for putting up exhibition	Free Advt. in Seminar Proceeding
1	Principal sponsorship	4,00,000	6000	24 sqm.	Back cover
2	Gold sponsorship	3,00,000	4500	18 sqm.	Inside Front Cover
3	Silver sponsorship	2,00,000	3000	12 sqm.	Inside Back Cover
4	Sponsor	1,00,000	1500	9 sqm.	Full page

Exhibition Venue: Charminar Square, India Habitat Centre, Lodhi Road, New Delhi

Exhibition Timings: March 21, 2016 – 1000 hrs to 1800 hrs.  
March 22, 2016 – 1000 hrs to 1600 hrs.

All the payments shall be made in the form of Demand Draft/Pay Order in favour of BMTPC, New Delhi payable at New Delhi or through NEFT/RTGS.



International Seminar

**“Emerging Building Materials  
and Construction Technologies”**

March 21 – 22, 2016

**Registration Form**

Name \_\_\_\_\_

Designation \_\_\_\_\_

Organization \_\_\_\_\_

Address for  
Correspondence \_\_\_\_\_

Phone Number: \_\_\_\_\_

Fax Number: \_\_\_\_\_

E-Mail: \_\_\_\_\_

Areas of Interest: \_\_\_\_\_

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(Signature of Nominating Authority/Delegate)

*Please send the duly filled in form at [jkprasad56@gmail.com](mailto:jkprasad56@gmail.com) or [alokbhatnagar71@gmail.com](mailto:alokbhatnagar71@gmail.com), or by post to:*

**Shri J.K.Prasad** (Mob No.09871095589) | **Shri Alok Bhatnagar** (Mob No.09811272800)

**Chief - Building Materials** | **Sr. Field Officer (E&E)**

Building Materials and Technology Promotion Council

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*(Photocopy of the form may be used)*

For further information, please contact:



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