

# National Workshop on NBC 2016 & Recently Revised Seismic Codes – Impact on Structural Design, Construction & Safety of Buildings

27th & 28th June 2017

Venue: PHD Chamber of Commerce & Industry  
PHD House, 4/2 Siri Institutional Area  
August Kranti Marg  
New Delhi-110016



Indian Association of Structural Engineers  
(IAStructE)

Jointly Organized by



Bureau of Indian Standards  
(BIS)

Media Partner



## About Indian Association of Structural Engineers (IAStructE)

Indian Association of Structural Engineers (IAStructE) is the national apex body of structural engineers in India established with the objective to cater to the overall professional needs of structural engineers. The association has become the source of expertise and information concerning all issues that involve structural engineering and public safety within the built environment. It has no commercial aim or objective.

IAStructE is purely a professional learned society with the prime objective of supporting and protecting the profession of structural engineering by upholding professional standards and acting as a mouthpiece for structural engineers.

IAStructE endeavors to ensure that its members develop the necessary skill in structural engineering and work to the highest standards by maintaining a commitment to professional ethics and standards within structural engineering.

IAStructE strives for continued technical excellence; advancing safety and innovation across the built environment. It also strives to make available to the Government, Public Sector and Private Sector - a credible source of well qualified and experienced Structural Engineers. A nationwide database of Structural Engineers has been compiled and is being constantly updated.

IAStructE undertakes a broad range of technical activities which are aimed at information sharing and capacity building. The association provides opportunity for all the members to develop various skills in structural engineering and helps members to be at the forefront of structural engineering practice. Towards achievement of its aims and objectives, IAStructE is engaged in organizing the following:

- ▶ CPD Courses for Professionals at all levels
- ▶ Refresher Courses for Fresh Graduate Engineers
- ▶ Student's orientation program
- ▶ Seminars/Workshops
- ▶ Technical Lectures by Experts
- ▶ Technical Discussions on Contentious Issues

IAStructE is currently operating from four regional / state centres. These regional centres located in the Eastern, Western, Northern and Southern parts of the country effectively cater to the professional needs of members residing/practicing all over the country.

## About Bureau of Indian Standards (BIS)

BIS is the National Standard Body of India established under the BIS Act 1986 for the harmonious development of the activities of standardization, marking and quality certification of goods and for matters connected therewith or incidental thereto.

BIS has been providing traceability and tangibility benefits to the national economy in a number of ways - providing safe reliable quality goods; minimizing health hazards to consumers; promoting exports and imports substitute; control over proliferation of varieties etc. through standardization, certification and testing.

Keeping in view, the interest of consumers as well as the industry, BIS is involved in various activities as given below:

- ▶ Standards Formulation
- ▶ Product Certification Scheme
- ▶ Compulsory Registration Scheme
- ▶ Foreign Manufacturers Certification Scheme
- ▶ Hall Marking Scheme
- ▶ Laboratory Services
- ▶ Laboratory Recognition Scheme
- ▶ Sale of Indian Standards
- ▶ Consumer Affairs Activities
- ▶ Promotional Activities
- ▶ Training Services (National & International)
- ▶ Information Services

The Standards Formulation activity is carried out through 14 Division Councils and over 650 Technical Committees functioning thereunder that have so far developed over 19000 Indian Standards.

BIS has its Headquarters at New Delhi and its 05 Regional Offices (ROs) are at Kolkata (Eastern), Chennai (Southern), Mumbai (Western), Chandigarh (Northern) and Delhi (Central). Under the Regional Offices are the Branch Offices (BOs) located at Ahmedabad, Bangalore, Bhubaneswar, Bhopal, Coimbatore, Dehradun, Faridabad, Ghaziabad, Guwahati, Hyderabad, Jaipur, Kochi, Lucknow, Nagpur, Parwanoo, Patna, Pune, Rajkot, Raipur, Durgapur, Jamshedpur and Vishakhapatnam, which offer certification services to the industry and serve as effective link between State Governments, industries, technical institutions, consumer organization etc. of the respective region.

## About the Workshop

There has been an increased awakening among professionals, owners, builders, planners and the society at large about the importance of earthquake safety of structures. At the same time, there has also been constant research & studies in the field of earthquake science and seismic engineering, necessitating updating of codes and standards from time to time.

IS 1893 (Part 1) has been recently revised, bringing into state of practice, the progress made in research, scientific and technological development globally. Similarly the IS code on ductile detailing of Reinforced Concrete Structures subjected to seismic forces, namely IS 13920 has been revised recently. Similarly IS 4326 was revised in 2013 and the National Building Code of India in 2016.

There is an often-repeated saying, "Earthquakes don't kill people, buildings do." Though as a structural engineer, one can't control the seismic hazard in the community where one lives or work, but can certainly influence the most important factor in saving lives and reducing losses from an earthquake by the adoption and enforcement of up-to-date building codes.

Adopting the latest building codes is only part of the solution. Codes must also be effectively enforced to ensure that buildings and their occupants benefit from advances in seismic provisions in the latest codes. Revision of codes also brings into focus the question of safety of old buildings. It's possible to make these buildings more resistant to earthquakes through seismic retrofitting.

IAStructE and BIS aims to bring together civil & structural consultants, architects, academicians, builders and developers, urban planners, policy makers and associated government agencies to discuss the impact of the newly released revised codes structural design of buildings. The exclusive two-day workshop will witness presentations by some of the stalwarts in the industry and the code makers themselves. This workshop will give ample opportunity to all delegates to interact directly with the experts in the domain and gain knowledge through interaction and social networking events.

### Advisory Committee

Mr. Mahendra Raj, MD, MRC

Mr. S. Ghosh, Former Director (Emeritus) CES(I) Pvt Ltd

Prof. Mahesh Tandon, MD, TCPL

Mr. S. C. Mehrotra, MD, Mehro Consultants

Mr. Sanjay Gupta, CMD, EIL

Mr. Abhai Sinha, DG, CPWD

Dr. Mangu Singh, MD, DMRC

Mr. R. K. Mittal, DDG (Standardization), BIS

Dr. D. K. Paul, Former Professor, IIT Roorkee

Dr. Sudhir Jain, Professor, IIT Gandhinagar

Dr. Mahesh Kumar, Engineer Member - DDA

Dr. Shailesh Agarwal, Executive Director, BMTPC

Dr. A. K. Mittal, CMD, NBCC

Mr. Sarvagya Srivastava, E-in-C, PWD, NCT

### Organising Committee

Chairman:

Mr. Vinay Gupta, CEO, TCPL

Mr. Sanjay Pant, Director & Head – Civil Engineering, BIS

Prof. B. Bhattacharjee, Professor (Civil), IIT Delhi

Mr. Ratish Jain, MD, Resistoflex Dynamics

Mr. Shishir Bansal, Chairman, ICI-NDC

Mr. Supradip Das, GC Member-ICI

Mr. Mayank Rawal, GC Member-ICI

Dr. Gopal Rai, MD, DGC

Dr. Mangesh V. Joshi, Founder CEO, SSSPL

Mr. Partha Pratim Roy, VP(Tech), Adapt

Mr. Sunil Desai, Dy. MD, Dextra

Dr. V. V. Arora, Joint Director & Head (CDR), NCCBM

Ms. Kamalika Kundu, Manager, Hilti India

Mr. Manoj Mittal, President-IAStructE

Mr. Alok Bhowmick, Hon. Secretary-IAStructE

Ms. Sangeeta Wiji, VP-North, IAStructE

Dr. Harshavardhan Subbarao, VP-West, IAStructE

Mr. S. P Anchuri, VP-South, IAStructE

Prof. Anjan Dutta, VP-East, IAStructE

Mr. Deepak Bansal, GC Member-IAStructE

Dr. Abhay Gupta, GC Member-IAStructE

Prof. (Dr.) T. Visalakshi, GC Member-IAStructE

Dr. S. Chatterjee, Member- IAStructE

Mr. S. Arun Kumar, Scientist 'D' (Civil Engg.), BIS

## Programme

**Tuesday, 27<sup>th</sup> June 2017**

DELEGATES REGISTRATION (09:00 Hrs to 09:30 Hrs)

INAUGURAL SESSION (09:30 Hrs to 10:30 Hrs)

Key-Note: Dr. D. K. Paul (Chairman, BIS Committee on Earthquake Engineering)

**HIGH TEA : 10:30 Hrs to 11:00 Hrs**

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| <b>Technical Session 1:</b><br>11:00 Hrs to 13:00 Hrs | <p><b>NBC 2016: Structural Safety Mechanism :</b><br/>Mr. Sanjay Pant, <i>Director &amp; Head (Civil Engg), BIS (45 mins)</i></p> <p><b>Overview of Current Seismic Building Codes :</b><br/>Prof. C. V. R. Murty, <i>Director, IIT Jodhpur (60 mins)</i></p> <p><b>Q/A (15 mins)</b></p> |
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**LUNCH BREAK : 13:00 Hrs to 13:45 Hrs**

|   |   |
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| <b>Technical Session 2:</b><br>13:45 Hrs to 15:45 Hrs | <p><b>Impact of IS 1893 (Part 1): 2016 on Modelling &amp; Analysis:</b><br/>Ms. Alpa Sheth, <i>MD, VMS Consulting Engineers, Mumbai (60 mins)</i><br/>Mr. Vipul Ahuja, <i>Director, Ahuja Consultants Pvt Ltd (30 mins)</i></p> <p><b>Q/A (30 mins)</b></p> |
|---|---|

**TEA BREAK : 15:45 Hrs to 16: 00 Hrs**

|   |   |
|---|---|
| <b>Technical Session 3:</b><br>16:00 Hrs to 18:00 Hrs | <p><b>Impact of IS 1893 (Part 1): 2016 &amp; IS 13920:2016 on Design &amp; Detailing</b><br/>Prof. C. V. R. Murty, <i>Director, IIT Jodhpur (60 mins)</i><br/>Ms. Sangeeta Wij, <i>Managing Partner, SD Engineering Consultants LLP (30 mins)</i></p> <p><b>Q/A (30 mins)</b></p> |
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**Wednesday, 28<sup>th</sup> June 2017**

|   |  |
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| <b>Technical Session 4:</b><br>09:30 Hrs to 11:00 Hrs | <p><b>Impact of IS 1893 (Part 1): 2016 on Geotechnical Aspects:</b><br/>Prof. Debasis Roy, <i>Professor, IIT-KGP (45 mins)</i><br/>Mr. Ravi Sundaram, <i>Managing Director, Cengrs Geotechnica Pvt Ltd (30 mins)</i></p> <p><b>Q/A (15 mins)</b></p> |
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**TEA BREAK : 11:00 Hrs to 11: 15 Hrs**

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| <b>Technical Session 5:</b><br>11:15 Hrs to 13:45 Hrs | <p><b>Impact of IS 1893 (Part 1): 2016 &amp; IS 13920 on Retrofitting of Buildings</b><br/><b>Expert from BIS Technical Committee (TBD) (60 mins)</b><br/>Dr. Gopal Rai, <i>Managing Director, Dhirendra Group of Companies (30 mins)</i><br/>Dr. Mangesh V. Joshi, <i>Founder CEO, Sanrachna Structural Strengthening Pvt Ltd (30 mins)</i></p> <p><b>Q/A (30 mins)</b></p> |
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**LUNCH BREAK : 13:45 Hrs to 14:30 Hrs**

|   |  |
|---|--|
| <b>Technical Session 6:</b><br>14:30 Hrs to 15:30 Hrs | <p><b>Impact of New Seismic Codes on Commonly used Tools &amp; Technologies</b><br/><i>Presentation by Mr. Rajiv &amp; Mr. Hemant from ETABS (20 mins)</i><br/><i>Presentation by Mr. Sudip Narayan Choudhury from Bentley (Staad Pro) (20 mins)</i></p> <p><b>Q/A (20 mins)</b></p> |
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**TECHNICAL DISCUSSION & CLOSURE**

**15:30 Hrs to 16:30 Hrs**

|                             |                               |
|-----------------------------|-------------------------------|
| Dr. D. K. Paul              | Prof. C. V. R. Murty          |
| Mr. Sanjay Pant             | Mr. S. C. Mehrotra            |
| Prof. Mahesh Tandon         | Ms. Alpa Sheth                |
| Moderator: Mr. Manoj Mittal | Rapporteur: Mr. Alok Bhowmick |

**HIGH TEA: 16:30 Hrs**

## Who Should Attend

- ▶ Civi & Structural Engineers
- ▶ Architects
- ▶ Consultants and Designers
- ▶ Urban Planners
- ▶ Contractors, Builders & Developers
- ▶ Manufactureres of Materials & Chemicals
- ▶ Academicians/Researchers & Students
- ▶ Government Departments, PSUs
- ▶ Financiers and Funding Agencies
- ▶ Equipment System Suppliers
- ▶ Applicators
- ▶ Civil Society
- ▶ Project Management Consultants

## Sponsorship Opportunities

| Entitlement                                       | Level            |                    |                |                 |                  |                     | Lunch Sponsor (1 Lac) |
|---|------------------|--------------------|----------------|-----------------|------------------|---------------------|-----------------------|
|   | Patron (10 Lacs) | Diamond (5 Lacs)   | Gold (3 Lacs)  | Silver (2 Lacs) | Supporter (50 K) | Kit Sponsor (1 Lac) |                       |
| Logo on the Backdrop                              | √                | √                  | √              | √               | √                | √                   | √                     |
| Complimentary Delegates                           | 15               | 7                  | 5              | 3               | 1                | 2                   | 2                     |
| Distribution of catalogues                        | √                | √                  | √              | √               | √                | √                   | √                     |
| Display of name during lunch hours at lunch venue | -                | -                  | -              | -               | -                | -                   | √                     |
| Display of name & logo during idle time           | √                | √                  | √              | √               | √                | √                   | √                     |
| Logo and name in the inner flap of the Kit        | -                | -                  | -              | -               | -                | √                   | -                     |
| Advertisement in Souvenir                         | Back Cover       | IF Cover/ IB Cover | Two Full Pages | Full Page       | Half Page        | Full Page           | Full Page             |

## Registration Fee

(Delegate fee includes registration, kit, workshop literature, lunch and tea )

|  |           |
|--|-----------|
| IAStructE Members & Faculty  | Rs 4000/- |
| Others   | Rs 6000/- |
| Students of Engineering Colleges & Institutions  | Rs 2000/- |
| Three or more delegates from same organization can avail 20 % discount on registration fee |           |

## Mode of Payment

- ▶ Cheque/ DD drawn in favor of "Indian Association of Structural Engineers"
- ▶ Bank Transfer (See Registration Form)

For more information please contact: Mr. Vikas Verma (Manager)

IAStructE Secretariat, M: 0 99682 99155, T : 011 - 4579 4829, E : iastructe@gmail.com; W : iastructe.co.in



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## REGISTRATION FORM

### National Workshop on “NBC 2016 & Recently Revised Seismic Codes - Impact on Structural Design, Construction & Safety of Buildings”

27<sup>th</sup> & 28<sup>th</sup> June 2017

**Venue:** Lakshmipat Singhania Auditorium, PHD Chamber of Commerce & Industry, PHD House,  
4/2 Siri Institutional Area, August Kranti Marg, New Delhi-110016

Name:.....

Designation .....

Organisation.....

Address .....

.....

City.....Country.....Pin Code.....

Phone .....

Mobile.....

Fax .....

E-mail.....

Signature

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(Delegate fee includes registration, kit, workshop literature, lunch and tea)

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- Students of Engineering Colleges & Institutions - Rs 2000/-

(Three or more delegates from same organization can avail 20 % discount on registration fee)

## MODE OF PAYMENT

Please find enclosed, Cheque/DD No.....Dated.....

In favor of “**Indian Association of Structural Engineers**”

Bank.....Branch.....Payable at New Delhi.

Payment can also be done by bank transfer as per particulars given below under intimation to Secretariat:

Beneficiary Name: **Indian Association of Structural Engineers** | Account Number: **10151200388** |

Bank Name: **State Bank of India** | Branch Code: **07196** | IFSC: **SBIN0007196** | MICR: **110002034** |

Branch Address: **Flyover Market, Defence Colony, New Delhi 110024**

**Reserve your seat by sending this form to the address given below along with the payment:**

**Indian Association of Structural Engineers**

H-38, LGF, East Side Entrance, Near Eros Cinema, Jangpura Extension, New Delhi 110014

**For more information please contact:**

Mr Vikas Verma (Manager)

IA StructE Secretariat

Landline: 011-45794829 Mobile: 09968299155

Email: [iastructe@gmail.com](mailto:iastructe@gmail.com); Website: [www.iastructe.co.in](http://www.iastructe.co.in)