



MESSAGE FROM THE PRESIDENT



Dear Members and Colleagues,

Seasons Greetings !

I am sure you all are staying safe and enjoying the season, as we enter the festive month of October. The month of September, which has just passed, was the beginning of series of festivals in India, starting with Krishna Janmashtami, Teej, Ganesh Chaturthi, Balarama Jayanti and Vishwakarma Puja, which will continue till mid-November. 27th September marks the beginning of the sacred 16-day lunar period when Hindus pay homage to their ancestors through Shraddha rituals. As we enter

October, may this festive month bring endless joy, glowing celebrations, and abundant blessings to your home.

Recently I attended the IABSE Congress at Incheon, South Korea. As we all are aware, the IABSE Congress remains a premier global event for structural and bridge engineers, organized by the International Association for Bridge and Structural Engineering every year. The theme of IABSE Congress, held from September 16–18, 2026, in Incheon, South Korea, was "Structural Engineering Towards Evolution and Hyper-Expansion. Three GC members of IAStructE participated in this congress. In fact, one of our GC members, Dr Harshavardhan Subbarao, is the President of IABSE who presided over this event. This is a significant honour for our association. The IABSE Congress offered a unique opportunity for structural engineering professionals across the world to connect with global leaders, exchange insights, and highlight achievements on the international stage, driving innovation and progress across the industry. The event brought together leading experts from around the world to explore future-ready and transformative structures through the lenses of resilience, sustainability, innovation, and digital technologies. The congress was attended by 670 eminent academicians, researchers and practicing engineers from around the globe (47 Countries). Only 15 Indian delegates attended this congress. There were 5 keynote lectures, 25 special sessions and numerous paper presentations, which could be organised through 9 parallel sessions running concurrently. Other than technical programmes, there were social networking events, and aligned events that were scheduled before and after the Congress.

Last month, we also witnessed some of the notable and tragic structural failures pan-India which has dented the image of our profession as well as professionals in the eyes of public. The Satya Niketan Building Collapse (New Delhi - September 6–7, 2026) is one such case, where a five-storey building operating as a paying guest (PG) accommodation for college students collapsed, resulting in 7 fatalities and 12 injuries. Another failure case which came to limelight is the Noida elevated road failure (September 15, 2026), where a part of an elevated road experienced a structural failure, resulting in a large 20-foot crater on the roadway. In Ambala an under-construction building collapsed (September 27, 2026) during concrete slab/roof work, which caused 6 deaths and 12 injuries. Also, an under-construction bridge in Vaishali district of Bihar Collapsed (Early September 2026).

These repeated and frequent structural failures should be treated as wake up calls for us and the structural engineering fraternity needs to brainstorm within, as to what should be done to reassure the society at large that our structures are safe! I would like to close my note here. I look forward to the continued support, participation, and contributions of all our members in strengthening IAStructE and the broader engineering profession.

Happy Reading

With Warm Regards and Best Wishes

Alok Bhowmick

FROM THE EDITOR'S DESK

Respected Esteemed Members and Readers,

It gives me great pleasure to present the September 2026 issue of the IAStructE Newsletter. September holds a special place for our fraternity, as on 15th September we celebrate Engineers' Day in honour of Bharat Ratna Sir M. Visvesvaraya. His legacy of technical excellence, integrity and service to the nation still guides every one of us who designs and builds.

This month's activities were shaped by the 2026 Venezuela doublet earthquakes. These two major shocks, just 39 seconds apart, have challenged the long-held assumption that a structure needs to be designed for only a single design earthquake. The association took this up in two sessions:

- Webinar on "The Venezuela Earthquake" (11 September 2026), organised jointly with the ISET Delhi Chapter and with the support of BIS
- Expert lecture on "Beyond the First Shock: Sequence-Aware Structural Resilience under Earthquake Doublets" (27 August 2026)

Together, these sessions gave members a timely view of residual capacity, re-entry protocols, and what these events could mean for future Indian seismic standards.

We are particularly encouraged by the energy of our Student Chapters at DTU, IIIT Hyderabad and BITS Pilani Hyderabad Campus. Their programmes this month were:

- The Engineers' Day Celebration 2026 on "Secure to Strengthen with Post-Installed Anchors", with a hands-on demonstration in association with Hilti India
- Webinar on "Improvements in Structural Health Monitoring using Machine Learning"
- Lecture on "An Overview of Indian Standards for Concrete and Concrete-Making Materials: Significance, Applications, and Emerging Trends"
- Lecture on "Strengthening of RC Structures using FRP Composites"
- Webinar on "Simplified Analytical Approach for Predicting the Moment-Curvature Behavior of UHPC Structural Elements"
- Webinar on "Transmission Line Towers: Failure Investigations and Mitigation"

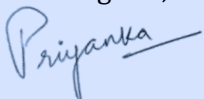
When young engineers engage this seriously with emerging technologies, the future of our profession looks bright. I am also pleased that IAStructE supported the Structural Engineers & Architects Meet – 2026, organised by SAIL at Faridabad on 7 September 2026.

The President has rightly drawn our attention to the structural failures reported across the country last month. Each of them is a reminder that safety must never be compromised at any stage of design, detailing or construction. I urge members to share their experiences of failures and near-misses through CROSFALL so that the lessons reach everyone. I also invite you to contribute papers to the forthcoming theme-based issues of the Structural Engineering Digest.

Your suggestions and contributions are always welcome, as they help make this newsletter truly yours.

Wishing you and your families a joyous and safe festive season ahead.

Warm regards,



Prof. (Dr.) Priyanka Singh



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Events Organized:

1. Webinar on “The Venezuela Earthquake”

IAStructE, jointly with the ISET Delhi Chapter and with the support of BIS, successfully organized a webinar titled “The Venezuela Earthquake” on Friday, 11 September 2026. The webinar brought together leading experts to discuss the 2026 Venezuela doublet earthquakes, their structural and geotechnical implications, and key lessons for Indian seismic design practices. The session was initiated and moderated by **Prof. R. Pradeep Kumar**, Immediate Past President, IAStructE and Director, CSIR–CBRI. **Dr. Abhay Gupta**, Chairman, ISET Delhi Chapter, addressed the participants, while **Mr. Jitendra Kumar Chaudhary**, BIS, also joined the session and addressed the participants.

The webinar featured three distinguished speakers. **Dr. H. S. Mandal**, Senior Scientist, National Centre for Seismology (NCS), highlighted the geotechnical impacts of the earthquake sequence, including severe ground shaking, widespread structural failures, landslides, and liquefaction, underscoring the importance of incorporating geotechnical considerations into resilient infrastructure planning. **Dr. B. K. Maheshwari**, Professor & Head, Department of Earthquake Engineering, IIT Roorkee, discussed the structural damage caused by the M7.2 and M7.5 earthquakes, emphasizing the extensive loss of life, widespread landslides, and ground failures including soil liquefaction, along with important lessons for seismic design and disaster resilience. **Dr. Ajay Chourasia**, Chief Scientist & Professor (AcSIR), CSIR–CBRI, presented an overview of the 2026 Venezuela Doublet Earthquakes, highlighting the observed structural damage, key seismic lessons, and their implications for enhancing earthquake-resistant design and the resilience of buildings in accordance with Indian standards. The webinar witnessed enthusiastic participation from structural engineers, researchers, academicians, and students from across the country, followed by an engaging interactive discussion on earthquake engineering and resilient structural design.

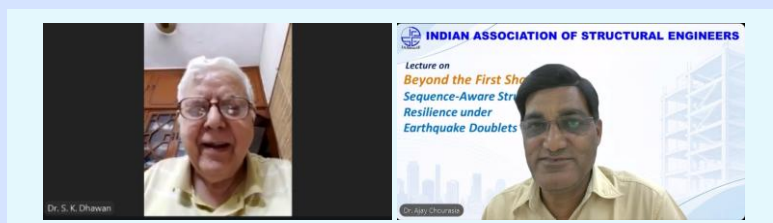


Glimpse of the Webinar

2. Lecture on “Beyond the First Shock: Sequence-Aware Structural Resilience under Earthquake Doublets”

IAStructE organized an online technical lecture on “Beyond the First Shock: Sequence-Aware Structural Resilience under Earthquake Doublets” on 27 August 2026. The lecture was initiated by Dr. S. K. Dhawan and delivered by Dr. Ajay Chourasia, Chief Scientist & Professor (AcSIR), CSIR–Central Building Research Institute (CSIR–CBRI), Roorkee. The session examined the limitations of conventional seismic design, which assumes a single design earthquake, and highlighted the lessons from the 2026 Venezuela doublet earthquakes, where two major earthquakes occurred within 39 seconds. Dr. Chourasia presented a sequence-aware framework for evaluating structural resilience

after an initial earthquake, incorporating residual structural capacity, stiffness degradation, P- Δ stability, and aftershock hazard through two-stage nonlinear response-history analysis. The lecture emphasized the need for improved detailing, inspection and re-entry protocols, and the integration of earthquake doublet considerations into future Indian seismic standards and national research initiatives.



Glimpse of the Lecture

IAStructE Student Chapter Activities

IAStructE – - DTU Student Chapter Event:

1. Engineer's Day Celebration 2026 on Secure to Strengthen with Post-installed Anchors

The IAStructE DTU Student Chapter, Department of Civil Engineering, Delhi Technological University, in association with the Industry Supported Lab by Hilti India Pvt. Ltd., celebrated Engineers' Day with great enthusiasm and fervour on 15th September 2026.

The celebration was organised around the theme "Secure to Strengthen with Post-Installed Anchors", featuring insightful technical sessions and a hands-on demonstration on mechanical and chemical post-installed anchors, providing participants with an opportunity to connect engineering concepts with practical applications.

The programme commenced with the National Anthem and Saraswati Vandana, followed by the welcome of the dignitaries and the ceremonial lighting of the lamp.



Prof. Shilpa Pal, Faculty Coordinator, IAStructE DTU Student Chapter, addressed the gathering and highlighted the importance of practical learning, technical excellence and continuous professional development among budding structural engineers.

Prof. Awadesh Kumar, HoD, Department of Civil Engineering, DTU, addressed the gathering and emphasised the importance of bridging the gap between academic knowledge and industry practices.

Ms. Aagmani Das from Hilti India Pvt. Ltd. also addressed the gathering, sharing valuable insights on the organisation's industry practices and initiatives. Mr. Shounak Mitra delivered an informative presentation introducing Hilti, highlighting its innovative solutions, products and technologies for the construction and structural engineering industry.

The academic and technical perspective on post-installed anchors was presented by Prof. P. C. Ashwin Kumar, IIT Roorkee, who enlightened the participants with valuable insights into anchoring systems, their engineering applications and their significance in structural engineering practice.

The industry perspective was delivered by Mr. Ravi Shankar, Global Design(s), through an insightful technical session on “Reinforcement Detailing of R.C.C. Members”, providing participants with valuable knowledge on reinforcement detailing practices and their importance in the safe and efficient design and construction of reinforced concrete members.



A major highlight of the programme was the hands-on demonstration of post-installed anchors by professionals from Hilti India Pvt. Ltd. Participants gained practical exposure to mechanical and chemical anchoring systems, including their installation, working principles and engineering applications. The celebration also featured an engaging technical quiz, encouraging students to test and enhance their knowledge. Fabulous prizes were given away at the hands of Prof. Awadesh Kumar, Prof. Shilpa Pal & Prof. Raju Sarkar respectively. The prize distribution was followed by the Vote of Thanks by Prof. Raju Sarkar, Director, CoEDRR, DTU, and a group photograph.

The programme witnessed active participation from the Department of Civil Engineering, DTU, with a total of 80 participants, comprising 28 B.Tech students, 30 M.Tech students, 10 PhD. Scholars and 12 faculty members. The successful organisation of the programme was made possible with the constant support and encouragement of Prof. Prateek Sharma, Hon’ble Vice Chancellor, DTU, whose support towards academic, technical and professional development initiatives continues to encourage such meaningful programmes at the university.

The event served as a fitting tribute to the engineering fraternity and reinforced the message that engineering is not merely about designing and constructing structures—it is about creating safer solutions, embracing innovation and contributing towards a stronger and more developed nation.



2. Webinar on “Improvements in Structural Health Monitoring using Machine Learning”

Dr. Amit Kumar Rathi, Assistant Professor at the Department of Civil and Infrastructure Engineering, Indian Institute of Technology Jodhpur, delivered an invited lecture on “Improvements in Structural Health Monitoring using Machine Learning” on 10th September 2026.

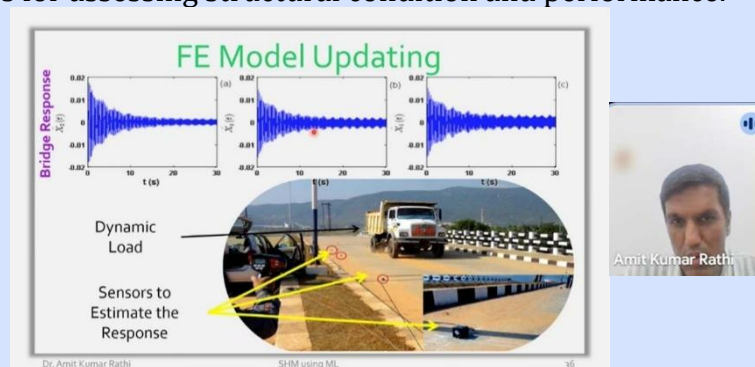
The lecture began with an introduction to Structural Health Monitoring, highlighting its importance in detecting changes in structural condition and supporting the assessment of structural safety. Dr. Rathi discussed different types of SHM approaches, including sensorbased and non-contact monitoring techniques, and explained how structural response data can be utilized for identifying changes in structural behaviour.

A significant portion of the session focused on machine-learning-assisted structural assessment. The speaker introduced concepts related to damage diagnosis, feature extraction, and data-driven interpretation of structural response.

The lecture further covered basic vibration concepts for Structural Health Monitoring, emphasizing the relationship between dynamic characteristics and structural condition. Dr. Rathi also discussed energy harvesting for SHM, highlighting approaches for utilizing ambient sources of energy to support monitoring systems and reduce dependence on conventional power sources.

The session provided participants with an overview of the evolving role of machine learning, FE model updating, vibration-based assessment, and energy harvesting in modern Structural Health Monitoring. The lecture concluded with an interactive discussion, enabling participants to gain further insights into the practical and research-oriented applications of data-driven structural assessment.

Overall, the lecture enhanced participants' understanding of contemporary Structural Health Monitoring techniques and demonstrated how machine learning can contribute to more efficient and intelligent approaches for assessing structural condition and performance.



Glimpse of the Webinar

3. Participation in “Concrete Day 2026 & ICI New Delhi Centre Awards”

Members of the IAStructE DTU Student Chapter, Department of Civil Engineering, Delhi Technological University, participated in Concrete Day 2026 & ICI New Delhi Centre Awards, organised jointly by the Indian Concrete Institute (ICI), New Delhi Centre and UltraTech Cement on 30 September 2026 at Scope Complex, New Delhi.

The event brought together eminent professionals, academicians, industry experts and young engineering enthusiasts from the field of civil engineering and construction. The participation provided members of IAStructE DTU with an opportunity to interact with experienced professionals and gain insights into contemporary developments in concrete technology, sustainable construction and infrastructure development.

The programme commenced with registration and networking, followed by the ceremonial lighting of the lamp and welcome address. The event was graced by several distinguished personalities, including Er. Mohammad Kamal Ahmad, Director General (Training), CPWD, as Chief Guest; Dr. L.P. Singh, DG, NCCBM, as Guest of Honour; and Dr. V. Ramachandra, President, Indian Concrete Institute, as the expert speaker. Other notable dignitaries included Dr. Achal Mittal, Vice President (North), ICI and Emeritus Scientist, CSIR-CBRI Roorkee; Dr. Shishir Bansal, President (Elect.), ICI; Er. Pradeep Garg, Chairman, ICI New Delhi Centre; Er. Amish Sheth, Regional Head Marketing, UltraTech Cement; Er. Vishal Kulkarni, Zonal Head Technical, UltraTech Cement; and Er. Vileen Sharma, Secretary, ICI New Delhi Centre.

A major highlight of the programme was the 23rd Shitla Sharan Memorial Lecture delivered by Dr. V. Ramachandra on the topic “How to Reduce Carbon Footprint in Concrete.” The lecture emphasised the importance of sustainable construction practices and reducing the environmental impact of the concrete industry through appropriate technologies and sustainable development approaches.

The programme also featured a presentation by UltraTech Cement highlighting developments and innovations in construction materials, followed by an address by the Guest of Honour.



Glimpse of the event

IAStructE – IIIT Hyderabad Student Chapter Event:

1. Lecture on “An Overview of Indian Standards for Concrete and Concrete-Making Materials: Significance, Applications, and Emerging Trends”

The durability of concrete is a critical factor governing the resilience, performance, and service life of structures. Recognizing the importance of understanding the relationship between concrete materials, durability, and applicable standards, the IAStructE–IIIT Hyderabad Student Chapter of the Earthquake Engineering Research Centre (EERC), organized a guest lecture on 16th September 2026 titled “An Overview of Indian Standards for Concrete and Concrete-Making Materials: Significance, Applications, and Emerging Trends”.

The lecture was delivered by **Er. Paramanad Ojha**, Managing Director, Vivitsa Research and Engineering Pvt. Ltd., and former Joint Director & Head, National Council for Cement and Building Materials (NCCBM), Government of India. Drawing upon his extensive professional experience in concrete technology, standards development, research, testing, and consultancy, Er. Ojha provided valuable insights into the evolving role of Indian Standards in contemporary construction practices.

The lecture covered key Indian Standards on cement, aggregates, concrete, mineral and chemical admixtures, and concrete testing. Particular emphasis was placed on the evolution of IS 456:2026 (Draft Version) and the emerging transition towards performance-based and service-life-oriented approaches to durability. The discussion addressed critical durability-related challenges, including early-age cracking, reinforcement corrosion, and concrete spalling, while highlighting the increasing importance of effective quality assurance and quality control practices.

The session also explored several emerging developments in concrete technology, including low-carbon concrete, recycled and sustainable materials, geopolymers concrete, Ultra-High-Performance Concrete (UHPC), and 3D-printable concrete. The speaker emphasised the importance of sustained research and development in addressing existing knowledge gaps, advancing sustainable construction practices, and facilitating the incorporation of innovative materials and technologies into future standards.

The lecture provided participants with a comprehensive understanding of how evolving standards, advances in material technology, durability considerations, and structural performance collectively contribute to the development of safe, durable, resilient, and sustainable infrastructure. The session was highly informative and offered valuable perspectives to students and professionals seeking to understand the current developments and future directions in concrete technology and structural engineering. YouTube Link: <https://youtu.be/xvWGXRTq5pg>

Concrete Test Methods मानकों का संशोधन – एक कालक्रम						
Sl No.	IS No./Name	Part/Sec No.	Part/Sec Name	Status	IS	Clause
1	IS 1199	Part 1	Sampling of fresh concrete	Published	1199	2
2	Fresh Concrete – Methods of Sampling, Testing and Analysis	Part 2	Determination of consistency of fresh concrete	Published	1199/9103	5
3		Part 3	Determination of Density of Fresh Concrete	Published	1199	7
4		Part 4	Determination of Air Content of Fresh Concrete	Published	1199	8
5		Part 5	Making and curing of test specimens	Published	516	
6		Part 6	Tests on fresh Self Compacting Concrete	Published	New	
7		Part 7	Setting time of	Published	8142	



Glimpse of the Lecture

2. Lecture on “Strengthening of RC Structures using FRP Composites”

The IAStructE-IIIT Hyderabad Student Chapter organised an online expert lecture on “Strengthening of RC Structures using FRP Composites” on **19th September 2026**. The lecture was delivered by **Dr. Taraka M. R. Balla**, Scientist-C, CSIR-Central Road Research Institute (CSIR-CRRI), New Delhi. The session focused on the application of Fibre-Reinforced Polymer (FRP) composites for strengthening reinforced concrete (RC) buildings and bridges, particularly in response to structural deterioration, design and construction deficiencies, evolving code provisions, and seismic demands.

Dr. Balla commenced the lecture with an overview of FRP composites and their potential as efficient alternatives to conventional strengthening techniques, such as concrete and steel jacketing. He discussed the advantages of FRP systems in enhancing the structural performance of existing RC members while addressing key challenges associated with structural strengthening and rehabilitation. Particular emphasis was placed on the appropriate selection, configuration, and orientation of FRP systems to achieve effective strengthening under different loading conditions. The

lecture further covered FRP-based strengthening techniques for enhancing the axial, shear, and flexural capacities of RC members. Dr. Balla explained how different FRP strengthening configurations can be adopted depending on the structural requirements and governing modes of failure. The discussion was supported by insights from research investigations and practical applications, providing participants with a comprehensive perspective on the implementation of FRP composites in structural strengthening.

The session also highlighted the relevance of FRP-based techniques for rehabilitating, upgrading, and enhancing the performance of existing concrete structures. By linking research developments to practical structural engineering applications, Dr. Balla demonstrated the growing potential of composite materials to address challenges associated with ageing and vulnerable infrastructure. The lecture concluded with an interactive Question-and-Answer session, during which participants engaged in discussions on the adaptability of FRP systems, their structural behaviour, implementation challenges, and practical applications. Dr. Balla addressed the queries with detailed technical explanations and valuable insights drawn from field experience and research.

Overall, the lecture enhanced participants' understanding of contemporary FRP-based strengthening and rehabilitation techniques and their application in improving the axial, shear, and flexural performance of RC members. The session provided valuable exposure to modern composite-based strengthening strategies and their potential contribution to the safety, durability, and performance of existing RC infrastructure. YouTube Link: <https://youtu.be/XmuLBQsaKWQ>



Glimpse of the Lecture

IAStructE – BITS Pilani Hyderabad Campus Student Chapter Event:

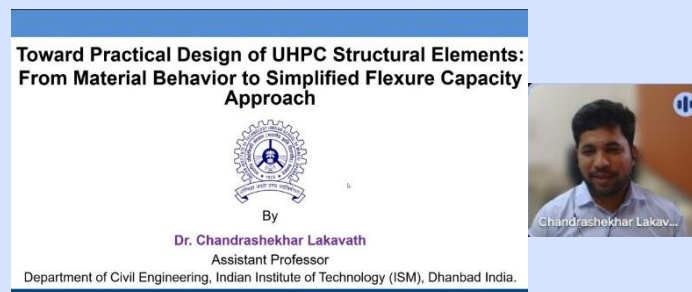
1. Webinar on “Simplified Analytical Approach for Predicting the Moment-Curvature Behavior of UHPC Structural Elements”

Dr. Chandrashekhar Lakavath, Assistant Professor in the Department of Civil Engineering at IIT (ISM) Dhanbad, delivered a webinar on 11th September 2026. The lecture focused on a simplified analytical approach for predicting the moment-curvature ($M-\phi$) behaviour of Ultra-High-Performance Concrete (UHPC) structural elements, addressing the need for accurate yet computationally efficient methods for practical structural design.

Dr. Lakavath discussed the growing adoption of UHPC in structural applications and the associated need for reliable flexural design methodologies. The session highlighted the conventional layer-by-layer approach used for obtaining moment-curvature predictions and its relatively high computational complexity, particularly for routine design applications. An equivalent rectangular stress-block approach was introduced as a simplified analytical method that integrates the behaviour of UHPC with conventional reinforced concrete design practices.

The lecture further discussed the validation of the proposed approach against 220 experimental beams, including rectangular, T-shaped, and I-shaped sections with both prestressed and non-prestressed members. The comparison demonstrated good agreement between the analytical predictions and experimental moment capacities. The discussion provided participants with an understanding of the applicability of simplified analytical approaches in predicting the flexural response of UHPC members while maintaining practical accuracy.

The session also provided insights into the structural behaviour of UHPC members, flexural response, stress-block idealization, and the development of efficient design methodologies. Dr. Lakavath shared perspectives from his research in shear and flexural behaviour of UHPC members, prestressed concrete, acoustic emission-based condition assessment, and structural optimization. The webinar concluded with an engaging discussion on the practical application of UHPC, analytical modelling approaches, and emerging research directions in high-performance structural materials.



Glimpse of the Webinar

2. Webinar on “Transmission Line Towers: Failure Investigations and Mitigation”

Dr. Raghavan Ramalingam, Assistant Professor in the Department of Civil Engineering at National Institute of Technology Tiruchirappalli (NIT Trichy), delivered a webinar on 12th September 2026. The lecture focused on the failure investigation and mitigation of transmission line towers, addressing the structural challenges associated with premature failures under extreme weather conditions and inadequate design considerations.

Dr. Raghavan discussed the various factors contributing to the failure of transmission line towers and highlighted the significant socioeconomic implications associated with such failures. The session emphasized the importance of reliable structural assessment, appropriate design methodologies, and accurate prediction of tower capacity to prevent premature collapse. Although transmission line towers are designed in accordance with established codal provisions, instances of tower failures continue to occur, necessitating improved approaches for structural evaluation and failure prediction.

The lecture further explored prevalent methods for assessing the load-carrying capacity and predicting the failure of transmission line towers. Particular emphasis was placed on code-based testing protocols and numerical modelling techniques used to investigate structural behaviour and simulate collapse mechanisms. The discussion provided participants with an understanding of the challenges involved in assessing the performance of steel lattice tower systems under critical loading conditions.

The session also highlighted the application of nonlinear analysis approaches for collapse simulations, enabling a more detailed understanding of structural instability and failure mechanisms. Dr. Raghavan shared insights from his research on the inelastic collapse prediction of

steel reticulated systems, along with his broader research interests involving transmission line towers, soil-steel bridges, tubular joints, and other steel structural systems.

The webinar concluded with an engaging discussion on failure investigation, structural assessment, numerical modelling, and mitigation strategies for transmission line towers. The session provided participants with valuable exposure to advanced approaches for understanding structural failures and developing safer and more reliable steel structural systems under demanding loading and environmental conditions.



Glimpse of the Webinar

IAStructE Supported Events

The Steel Authority of India Limited (SAIL), supported by IAStructE, organized the Structural Engineers & Architects Meet – 2026 at Radisson Hotel, Faridabad, on 7 September 2026. The programme brought together structural engineers, architects, and industry professionals for technical interaction and the exchange of knowledge on contemporary developments in steel construction and structural engineering. Er. I. S. Chauhan, Vice President (North), IAStructE, represented the association at the event.



IAStructE Social Media accounts

Let's get "*****DIGITIZED*****"

Please follow us on all major media platforms. For joining us, below mentioned links to be pasted in browser. Let's join hands together to promote the profession of Civil Engineering.

1. **on TWITTER as IAStructE:** -<https://twitter.com/iastructe>
2. **on Facebook as IAStructE:** -<https://www.facebook.com/IAStructE-100114022302316>
3. **on LinkedIn:** -The group is defined as Indian Association of Structural Engineers-IAStructE
<https://www.linkedin.com/groups/6646248/>
4. **on YouTube as IAStructE Webinar:** - Subscribe and press bell icon
https://www.youtube.com/channel/UCvv7ojXO9Dxq1WtP_yHZTKw

QUIZ - Test Your Structural Concepts!

This quiz is designed to generate interest in structural engineering among stakeholders and to encourage greater participation from young engineers, with each issue of the newsletter featuring three conceptual questions covering diverse aspects of the discipline. The names of the first ten participants who submit all correct answers to iastructe@gmail.com within the first three days of the newsletter's release will be published in the subsequent issue.

For the quiz published in the **August 2026 issue of the newsletter**, **Mr. I. S. Chauhan**, Proprietor, I. S. Chauhan & Associates, and **Mr. Naveen Kumar**, Member IAStructE, were the participants who answered **all the questions correctly**. We congratulate them on their achievement. The correct answers are provided below for the benefit of all readers.

1. As per IS 1893:2016, the seismic zone factor (Z) for Zone V (highest seismic risk in India) is - **Answer: (d)**
2. In ductile detailing of RC structures as per IS 13920, the primary objective of providing closely spaced stirrups near beam-column joints is to - **Answer: (c)**
3. Which of the following analysis methods is most appropriate for a highly irregular, high-rise building located in a high seismic zone? - **Answer: (c)**

Questions for the August 2026 issue are given below: Test your knowledge and stand a chance to be featured in the next issue!

1. **As per IS 456:2000, the minimum nominal clear cover to meet durability requirements for an RC member under "Severe" exposure condition is:**
 - a) 30 mm
 - b) 40 mm
 - c) 45 mm
 - d) 50 mm
2. **When an RC beam is strengthened in flexure using externally bonded FRP laminates, the most commonly observed premature mode of failure is:**
 - a) Rupture of the FRP laminate
 - b) Debonding of the FRP laminate from the concrete substrate
 - c) Yielding of the compression reinforcement
 - d) Shear failure of the FRP laminate
3. **In structural analysis, the "P- Δ effect" refers to:**
 - a) The reduction in axial capacity of a column due to creep and shrinkage
 - b) The additional (secondary) moments caused by gravity loads acting on the laterally displaced structure
 - c) The increase in lateral stiffness of a frame due to infill walls
 - d) The redistribution of moments in a continuous beam after the formation of plastic hinges

Call for papers for CROSFALL:

CROSFALL is a newsletter published by the Indian Association of Structural Engineers (IAStructE) to share lessons learned from structural failures, near-misses, and safety concerns. Its aim is to promote a safer built environment, enhance professional knowledge, and reduce future risks through real-life case studies supported by expert analysis. The information presented is intended to help engineers and other stakeholders improve the safety and reliability of their designs and construction practices. CROSFALL-IAStructE is inspired by CROSS-UK, but operates independently and has no formal association with it. The CROSFALL Editorial Board invites reports for upcoming issues on structural safety matters related to buildings, bridges, tunnels, industrial structures, and other infrastructure. Contributions highlighting failures, near-misses, observations, and lessons learned are encouraged to support safer engineering practices. The reporting can be related to:

- *Structural failures,*
- *Poor Design and Detailing, Lack of Seismic Safety in planning*
- *Safety concerns about high risk erection schemes at Site; Safety concerns on Temporary Works*
- *Near misses, or observations relating to procedures followed at site, which may lead to failures or collapses.*
- *Unethical practices in the profession*

Reports do not have to be about current activities so long as they are relevant. Small scale events are equally important - they can be the precursors to more major failures. Report might relate to a specific experience or it could be based on a series of experiences indicating a trend. No concern is too small to be reported and conversely nothing is too large. Reports should aim to include information that will help others to learn from the safety issue identified.

To submit the report please go through the following link: www.iastructe.co.in/crosfall.php

Call for papers for the theme-based issue of SED journal:

SED Editorial Board invites article contributions for the forthcoming issues of the Structural Engineering Digest on the following themes, which shall be published in e-book format.

- 1. Structural Connections**
- 2. Digital Technology in Structural Engineering**
- 3. Professional Practice in Structural Engineering**
- 4. Strut-and-Tie Model and Analysis**

Interested professionals may send their full paper on any of the above issues along with their photograph and brief resume at the earliest convenience. Articles are invited from i) Members of IAStructE; ii) Specialists in the field even though they are not members of IAStructE. These thematic issues aim to provide valuable insights, highlight emerging trends, and promote knowledge sharing within the structural engineering community.

Advertisement Tariffs:

Structural Engineering Digest (being published in PDF format)

	Rates Per issue	Discounted rate at 20% for 4 consecutive issues	Advertisement Size
Full Page	Rs. 20,000/-+ 18% GST	Rs 64,000/- + 18% GST	9.5-inch x 7 inch

IAStructE Monthly Newsletter (being published in PDF format)

	Rates for advertisement	Advertisement Size
Full Page	Rs. 10,000 per issue, 10% rebate for quarterly, 20% rebate for half yearly and 30% rebate for yearly booking	9.5-inch x 7 inch
Half Page	Rs. 7,000/- + 18% GST per issue, 10% rebate for quarterly, 20% rebate for half yearly and 30% rebate for yearly booking.	4.75-inch x 7 inch
1/8th of a Page	Rs. 2,000/- + 18% GST per issue, 10% rebate for quarterly, 20% rebate for half-yearly, and 30% rebate for yearly bookings. (Only for IAStructE Members)	Standard size of Business Card

Accredited Structural Engineers (ASE – IAStructE):

The IAStructE Accreditation Program for Accredited Structural Engineers (ASE – IAStructE) is designed for experienced structural engineers with a strong understanding of Indian design codes and standards. The entire program would be on the basis of a two-stage process consisting of an interview for the assessment of Initial Professional Development (IPD) followed by a written examination based on actual problem-solving. Both stages are mandatory to clear the assessment process and thus to get recognition. An Accredited Structural Engineer – IAStructE is someone who wishes to:

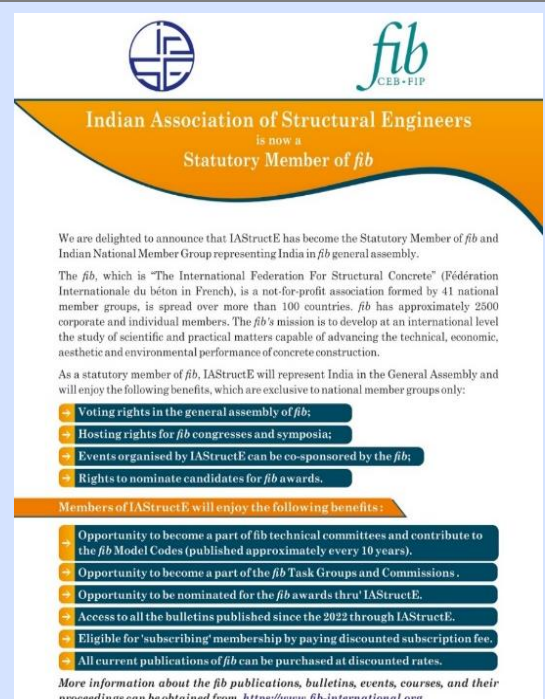
- validate their comprehensive experience and understanding of all types of structural engineering work and managerial capabilities
- demonstrate their competence on the basis of IPD and Continuous Professional Development activities in the field

The complete information about the entire process along with the application form and annexures can also be obtained from a booklet, which can be downloaded from the following link: <https://www.iastructe.co.in/ase-iastructe-accreditation.php>

Subscribing membership of fib through IAStructE:

Fib has started inviting the membership subscription for 2026. There are many benefits available for IAStructE members and others who want to become subscribing members of fib through IAStructE. Fees for subscribing members through IAStructE: The discounted fees exclusively for the IAStructE members to become the “subscribing members” of fib shall be Rs 24,000.00 (CHF 250.0 approx.) as against CHF 465 for the Non-IAStructE members. The procedure to get the subscribing membership of fib for the year 2026 is as follows:

1. Interested members can remit the membership amount of Rs 24,000 (i.e. CHF 250) + 18% GST to IAStructE
2. On the last day of every month, the contact details of those members who made the payment and want to be subscribing members will be sent to the fib.
3. The subscribing membership of fib will be valid for the calendar year up to December 31, 2026.



The poster features the IAStructE logo on the left and the fib CEB-FIP logo on the right. Below the logos, it states "Indian Association of Structural Engineers is now a Statutory Member of fib". The text continues: "We are delighted to announce that IAStructE has become the Statutory Member of fib and Indian National Member Group representing India in fib general assembly." It then describes fib as "The International Federation For Structural Concrete" (Fédération Internationale du béton in French), a not-for-profit association formed by 41 national member groups, spread over more than 100 countries. fib has approximately 2500 corporate and individual members. The fib's mission is to develop an international level the study of scientific and practical matters capable of advancing the technical, economic, aesthetic and environmental performance of concrete construction. As a statutory member of fib, IAStructE will represent India in the General Assembly and will enjoy the following benefits, which are exclusive to national member groups only:

- Voting rights in the general assembly of fib;
- Hosting rights for fib congresses and symposia;
- Events organised by IAStructE can be co-sponsored by the fib;
- Rights to nominate candidates for fib awards.

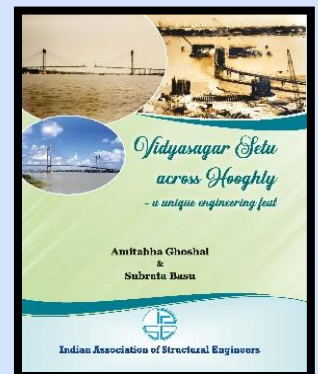
Members of IAStructE will enjoy the following benefits:

- Opportunity to become a part of fib technical committees and contribute to the fib Model Codes (published approximately every 10 years).
- Opportunity to become a part of the fib Task Groups and Commissions.
- Opportunity to be nominated for the fib awards thru IAStructE.
- Access to all the bulletins published since the 2022 through IAStructE.
- Eligible for 'subscribing' membership by paying discounted subscription fee.
- All current publications of fib can be purchased at discounted rates.

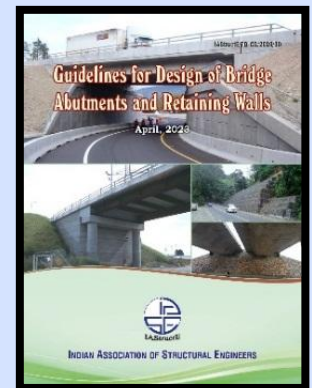
More information about the fib publications, bulletins, events, courses, and their proceedings can be obtained from <https://www.fib-international.org>

IAStructE Publications:**1. Book on Vidyasagar Setu across Hooghly – A unique engineering feat:**

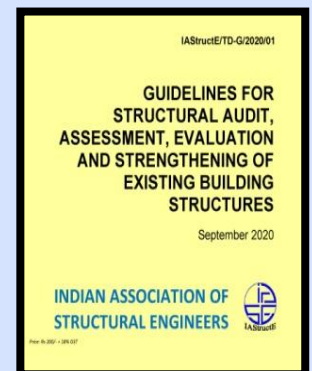
The book is about the story of an iconic bridge structure - the Vidyasagar Setu, initially known as the Second Hooghly Bridge (or crossing). The authors Mr. Amitabha Ghoshal and Mr. Subrata Basu have created an engaging narrative that covers both the engineering as well as the other related issues in lucid detail. The book is available for Sale @ Rs 1200/- + Rs 150/- (postal charges). IAStructE Members are entitled to a discount of 10% on the book price. Interested professionals who wish to purchase the book may contact us at iastructe@gmail.com.



2. Guidelines for Design of Bridge Abutments and Retaining Walls: This document will assist practicing bridge and structural engineers in building confidence in the design of these structures, which offers tools for the design of economic and innovative retaining structures. The document is rich in theoretical explanations and draws on much experience of the authors. Worked examples further illustrate the application of the applicable codes and should promote better understanding. The document is available for sale @ Rs. 1500/-. Interested professionals who wish to purchase this document may kindly contact IAStructE Secretariat at iastructe@gmail.com. Members of IAStructE will be entitled for a discount of 10% on the price.



3. Guidelines for Structural Audit, Assessment, Evaluation and Strengthening of Existing buildings Structures: This document will guide structural engineers in proper assessment of building structures before issuing structural stability certificate. The Guideline emphasizes the urgent need to enhance building resilience against earthquakes and other hazards, ensuring structures nationwide remain safe from disaster risks. The price of this e-document is Rs 200/-. Interested professionals, who wish to obtain the soft version of the Guideline in pdf format, may register with the following link. Registration Link: <http://iastructe.co.in/guidelines-for-structural-audit.php>



4. Commentary with Worked Examples for IRC: 6-2017: This comprehensive reference publication provides detailed commentary and illustrative worked examples on IRC: 6-2017, the code dealing with Loads and Load Combinations for the Design of Highway Bridges. The publication is available in two separate volumes. Volume I contains detailed commentary on the various provisions and clauses of the code, while Volume II presents Illustrative Worked Examples demonstrating the practical application of these provisions. The publication includes 48 worked examples, covering the application of various codal clauses and providing useful guidance to professionals involved in the analysis and design of highway bridges. The document is intended to serve as a valuable technical reference for structural engineers, bridge designers, consultants, and other professionals.

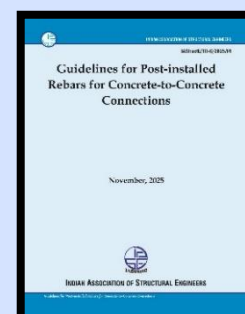
The volumes are available for purchase at Rs. 1,200/- for Volume I and Rs. 800/- for Volume II. IAStructE and IRC members are entitled to a 10% discount. Interested professionals may register through the link below or contact the IAStructE Secretariat at iastructe@gmail.com.

IAStructE/TD-CC/2020/02	IAStructE/TD-CC/2020/01
COMMENTARY WITH WORKED EXAMPLES FOR IRC:6-2017	COMMENTARY WITH WORKED EXAMPLES FOR IRC:6-2017
STANDARD SPECIFICATIONS AND CODE OF PRACTICE FOR ROAD BRIDGES SECTION II : LOADS & LOAD COMBINATIONS (SEVENTH REVISION)	STANDARD SPECIFICATIONS AND CODE OF PRACTICE FOR ROAD BRIDGES SECTION II : LOADS & LOAD COMBINATIONS (SEVENTH REVISION)
NOVEMBER 2020	NOVEMBER 2020
VOLUME 2 OF 2 : ILLUSTRATIVE WORKED EXAMPLE	VOLUME 1 OF 2 : COMMENTARY

Registration link: <http://iastructe.co.in/new-iastructe-publication.php>

5. Guideline for Selection and Design of Post-installed Anchors in Concrete

Connections: This document covers post-installed anchors, including their types, behavior, working principles, failure modes, and design steps for both non-seismic and seismic conditions. It also includes illustrative design examples. Available at www.iastructe.co.in under IAStructE Professional Documents, members can access it after logging in.



6. Guidelines for Post-installed Rebars for Concrete-to-Concrete

Connections: In this document, design methods for non-seismic and seismic situations, specifications, guidelines on installation and inspections of post-installed bars are covered. A few illustrative design examples too are presented for better understanding of design methodology.. Available at www.iastructe.co.in under IAStructE Professional Documents, members can access it after logging in.



7. Commentary on IS: 13920 and Commentary on IS: 1893 Part 1: The commentary is available on www.iastructe.co.in under IAStructE Professional Documents. IAStructE member can access this document after login.

IAStructE Library - Coming Soon at Our New Premises

With the Association's recent relocation from its premises at Kalkaji to DLF Prime Tower, Okhla Phase I, New Delhi, we are pleased to inform our members that the IAStructE Library will soon be established at the new office premises. The library will provide members with an opportunity to access useful technical and professional resources and support their continued learning, research, and professional development. Members are encouraged to make use of this facility once it becomes operational. We also warmly invite members to contribute technical books, journals, standards, and other relevant publications to enrich the library's collection for the benefit of the structural engineering community.



About 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 centers. 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.

Membership Benefits:

Membership of IAStructE is a sought-after professional accreditation. Your membership of IAStructE can help you enhance your intellectual, academic, technical and professional status. It provides inter connectivity to the fellow professionals and the fraternity. Some of the benefits of membership is provided below:

- ★ Complimentary magazine subscription: All members (except Student Members) receive a complimentary subscription to the Institution's flagship publication 'Structural Engineering Digest' (SED). Published quarterly, each issue allows members to remain connected to the association through the provision of technical papers, Industry and Institution News, featured articles, Professional Guidance on everyday matters affecting the practicing structural engineers.
- ★ Access to the professional documents
- ★ Access to all Technical Lectures, organized every month, at no charge
- ★ Access to Technical Discussions held regularly
- ★ Access to the association's library (Including e-library)
- ★ Discounts in attending Seminars and Workshops organized by the association
- ★ Full on-line access to the current volume and entire e-archive of journal "Structural Engineering Digest (SED)", Refresher Course Materials, Technical Lectures, E-Newsletters and other Technical Resources of the Association.
- ★ Opportunity to network with professional structural engineers of eminence and to meet potential employers in the association.
- ★ Opportunities for professional development

How to become a member?

Membership form and details are available at <https://www.iastructe.co.in/membership-grades.php>; for more information and other details contact the Indian Association of Structural Engineers Secretariat

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