



# IAStructE

# news letter

*Newsletter of the Indian Association of Structural Engineers*

**May 2018 Issue**

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## IAStructE Secretariat

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## 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 it's 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.

## From the President's desk



Dear Friends,

I am pleased to inform you that the Refresher Course on "Design of Tall Buildings" organized by IAStructE is getting good feedback. This course will conclude on 23rd June. As informed earlier we are planning to announce the next refresher course on IRC 112, very soon.

You may be aware that guidelines for seismic design for road bridges [IRC: SP: 114-2018] has been published by Indian Road Congress, which will be operative from 1st June 2018.

Significant changes have been taken place in this document as compared to the previous version. With the objective of introducing this new publication to the bridge engineering fraternity and to understand the changes a half-day seminar on this topic is being organized on 23rd June 2018 at New Delhi. The speakers will be the code makers themselves who were involved in making of this new guideline. You may send your nomination to the Secretariat as per details given in this newsletter to register yourself.

We are planning to organize an international seminar on base isolation & vibration control in buildings & bridges in September 2018. Details shall be announced soon.

As already informed the work for publishing the Structural Engineering Digest (SED) for July 2018 issue is in progress and we hope to publish this journal in its new avatar within the due date.

You shall be happy to know that BIS has entrusted the task of developing explanatory handbook on IS: 1893-part1 2016 to IAStructE. Work on it has been started. We are sure it will be very useful for all Civil & Structural engineers.

You are invited to send your views & suggestions. I request you to get engaged in the activities of IAStructE. It will help you as well as others in the profession.

Best Regards

A handwritten signature in black ink, which appears to read "Manoj Mittal". The signature is written in a cursive style and is positioned above a horizontal line that extends to the right.

Manoj Mittal

## Recent Activities

### Technical Lecture

1. A Technical Lecture by Mr Naveen Gupta, Principal Consultant, Tandon Consultants Pvt Ltd on the topic "Innovations and Challenges in Designing and Construction of Underground Metro" was organized on 24<sup>th</sup> May 2018 at CDC, India Habitat Centre, Lodhi Road, New Delhi.

## Ongoing event

### Refresher Course

Refresher Course on "Design of Tall Buildings" is being held at PHD Chamber of Commerce & Industry, PHD House, 4/2 Siri Institutional Area, August Kranti Marg, New Delhi 110016. The course will continue till 23rd June 2018. The lectures are being held on every Saturday morning from 9.00 AM to 01.15 PM (with 15 mins. Tea break in between). Mr. S C Mehrotra Governing Council member is the Course Coordinator.



*View of the refresher course*



*View of the Refresher Course*

## Forthcoming event

### Half Day Seminar

IAStructE is organizing a half day Seminar on “**Introduction to New Seismic Guidelines on Highway Bridges (IRC:SP:114-2018)**” on **23<sup>rd</sup> June 2018** at PHD Chamber of Commerce & Industry, PHD House, 4/2 Siri Institutional Area, August Kranti Marg, New Delhi 110016. The invited speakers in this seminar are the code makers themselves who were involved in making of this new guideline. For IAStructE members, there is no participation fee. The participation fee for IRC member is Rs 750/- & Rs 1,000/- for others. The members who are interested to participate should send their confirmation to Secretariat ([iastructe@gmail.com](mailto:iastructe@gmail.com)) at the earliest as we have limited seats.

### Conference

International Seminar on **Earthquake / Wind Resilience in Buildings and Bridges with Vibration Control – Base Isolation and Dampers** is scheduled to be held on 14-15 September 2018 at New Delhi. International experts from Japan and USA have been invited to deliver the lectures. *Prof Akira Wada*, Professor Emeritus, Expert Earthquake Engg. Specialist, Tokyo Institute Of Technology; *Dr. Yoshikazu Takahashi*, Professor, Kyoto University; *Dr. Taiki Saito*, Professor, Toyohashi University of Technology; *Dr. Anoop Mokha*, Vice President, Earthquake Protection Systems, Inc., California have already confirmed their participation. Also Indian experts who are familiar with the subject will also be invited to share their experience. These experts will shed light on the latest technologies and trends in building earthquake resilience through vibration control and to deliver the lectures on the following topics:

- i) Global Trends in Vibration Control - Recent earthquakes and next concept for earthquake design including Case Studies
- ii) Performance of Buildings with and without Vibration Controlled Devices during major Earthquakes including Case Studies.
- iii) Quantifying Resilience in Buildings & Bridges as per FEMA & REDi
- iv) Performance of Bridges in major earthquakes with and without vibration control devices during major Earthquakes/ wind events including Case Studies
- v) Formulation of Indian Code on Vibration Control--Emulation and Value Addition

The professionals who are interested to participate in the International Seminar may get in touch with Secretariat for further information.

## Setting up of Library at IAStructE Secretariat

Mr. Mahendra Raj, Founder President of IAStructE has donated a large number of technical books & journals (approximately 1228) along with the racks for setting up of the library at the IAStructE Secretariat. The members are invited to make use of it in normal office hours.

Other members interested to donate the books/journals for this purpose are requested to contact the secretariat. It will be very useful for the civil/structural engineers.



## Structural Engineering Digest

The technical journal of IAStructE, Structural Engineering Digest (SED) shall be published in July 2018. The members and others engaged in the profession can contribute a technical article or case study on a topic of their choice relevant to Structural Engineering. The article, along with the photograph and brief resume of the Author may be sent to the Secretariat at [iastructe@gmail.com](mailto:iastructe@gmail.com) latest by 12th June 2018 for the July issue.

### Featured Article

#### Wind STORMS of APRIL – May 2018

A write up by  
*Prof Prem Krishna, Former Professor, IIT Rookee*

Recent dust storms in northern India played havoc, killing more than 200 people and injuring more than 300. The storms disrupted electricity, uprooted trees, destroyed houses and killed many livestock as well (Fig.1 to 4). Two minarets at the entry gates of the famed Taj Mahal in Agra also got toppled (Fig. 5 & 6)



Wind storms do occur in the Northern part of India almost every year during this season. These could be thunder storms or dust storms. In the current year however their intensity as well as frequency has been unusually high. This perhaps explains the higher number of lives lost, besides other losses also being higher than in the comparable season in earlier years.

As is known, the design wind speeds that are specified in the wind loading code, IS 875 (part 3), are statistical values based on whatever records are available. Whereas the specified value can be exceeded in a dust storm or a cyclone it is no doubt going to be a very rare occurrence. In the current context, however, going by the newspaper reports, the maximum wind speed was reported as 130 kmph. This is approximately 36 m/s, whereas for bulk of the region where the storms were active, the basic wind speed specified by the IS 875 (part 3) is 47-50 m/s.

This would explain as to why the damage to properly engineered structures was not significant. It is the non- or, semi- engineered structures, such as dwellings that are normally damaged, and, lead as well to losses in property or life. Besides these there are the accidental losses due to falling trees, poles, or, wires.

Guidelines do exist for making inadequately engineered buildings safer against wind. A good example is the IITK-GDSMA guidelines on "Wind storm Damage and Mitigating Measures", prepared by IIT-Roorkee. Similarly, the Vulnerability Atlas of India, published by the Ministry of Urban Development, GOI, in 1997 and revised in 2004 contains very useful material. However, these guidelines are obviously in general terms, and, cannot be applied across the board and throughout the country. Area specific development is necessary. This will require a focussed building typology survey, in order that more rational, economical strengthening and retrofitting measures can be designed and implemented. The only mechanism in the Country which can undertake this magnitude of an exercise is the NDMA through the aegis of the SDMAs, who can certainly take support from organisations and agencies with the relevant expertise. It should be possible also for individuals to follow the guidelines mentioned above, but it should be remembered that one is, by and large, talking here of LIG dwellings with limited resources. It seems imperative therefore for the State to take it up as an organised effort, if we expect to reduce the spectre of disruption of life, losses and misery year after year.

## **HOUSE BARTER AND ENVIRONMENTAL MANAGEMENT**

***D. Bansal\* & V. K. Minocha\*\****

Now there is a big hue and cry on environmental mismanagement all over India, whether it is land, water or air. City like Delhi has been declared as one of the most polluted city in the world. The river Yamuna, which flows through Delhi, is almost a drain. Almost every year, residents are forced to live indoors, schools are shut, factories are closed, power plants are shut and peoples are subjected to many ailments related to breathing, skin, eyes, etc due to pollution for few days. There are many factors attributed to this mess, like haphazard construction activities, transportation and handling of construction and demolition wastes, smoke from transportation & industry, crop burning, sweeping with broom, low wind speed, cloud cover etc. Out of these, housing with transportation, has big share in GHGs emission (more than 40%), and respiration related issues besides traffic congestions, road rages all over India, especially in cities like Delhi. These issues continuously haunt the residents and concerned authorities are grappling with the possible effective solutions, including graded responses action plan and warning system, in the days of high pollution. Road rationing, though even and odd, is also implemented in Delhi, but its success or failure, has not been unequivocally authenticated by any competent third parties (in public domain).

Delhi is the capital of India, and has more than 20 million population (2018), with very high number of registered motor vehicles (public, private and two wheelers, three wheelers, four wheelers etc.), besides that, the people from NCR region like Noida, Ghaziabad, Gurugram, Sonapat, Faridabad and many more places, commute to Delhi on daily basis, by private and public vehicles, for work related activities, resulting in more vehicle related pollution. The movement of goods carrier is an extra load on Delhi traffic and pollution. This traffic related issues can be tackled with proper planning and effective policy formulation by the respective state governments (Delhi, Haryana and UP) at inter and intra state levels ( eastern and western peripheral road will provide some relief).

The area of Delhi is about 1484 sq.km. and roughly, Delhi is circular, means the diameter of Delhi is about 40 km, hence if somebody stay at Narela and his/her work place is Sarita Vihar, then he/she has to travel for more than 50 km ( as roads are not straight) in each single trip on daily basis, resulting in wastages of money, energy, time, wear & tear of vehicles and eating away of road spaces ( as every vehicle occupy some space on the road, according to its PCU (passenger car unit) and average speed of travel) leading to pollution & congestion, increases wear & tear of roads and frustration among commuters. But either they change their work place or leave it, there is no other alternative. Delhi MTRS (Mass Rapid Transport System) like Delhi Metro is a big success among many, but it has limitations also, like carrying capacity, routes, comfort and last mile connectivity, hence many people are not finding Delhi metro convenient. On the other hand, BRT corridor has to be scrapped by the government, due to its unpopularity. Hence there may be other solutions, which must be found out.

The one solution is TOD (Transit oriented development), in which planning of built spaces, is done along MRTS ( mass rapid transport systems) routes, FAR/FSI , Ground Coverage, and Dwelling Densities are increased, assuming that the residents will use MTRS, and there will be less requirement for vehicles ,parking and Roads. This may be good solution, but convenience and last mile connectivity may be seen along with user behaviours. Moreover with cab aggregators like Ola, Uber, etc, may be roped in for the last mile connectivity or something like this, may be planned for the success of TOD, otherwise these issues may lead to failure of this system. The other solution may be, the option of allowing work from home to the workforce, which can perform work from their home, like many MNCs are doing this, which is not only helping employees, but helping MNCs also, as the same seat, in their offices, can be used by many employees, like co working spaces concepts (in which many employees share the same seat in different timing and in different days), resulting in saving of spaces and related paraphernalia, the cost of which is very high in cities like Delhi.

The other solution which comes to researchers mind, is that people should be allowed to sell their houses, which are away from their work places, and should be encouraged to buy houses of their choices, near their workplaces, by fiscal incentives, like no stamp duty for this transaction, as actually government is getting benefitted by this barter, as these people will use less road spaces, resulting in less crowding on roads, less wear & tear of roads resulting in less pollution. The current stamp duties are too high and now GST is also imposed on these transactions, which is hampering this process. Banks and Financial Institutions may also be asked to allow these transactions by relooking/reworking the guarantees/collators, market values, titles, etc., in a time bound manner, as many such properties may have already been mortgaged with different banks/financial Institutions. This may free up more roads & parking spaces and will results in reduced road rages & pollution, at no extra cost to the government (actually government is saving on road repairs and environmental pollution). The government may also strictly enforce that such people, to not to have vehicles or may limit number of vehicles to them by appropriate law. This practice may also be followed by neighbouring state of Delhi and provide such facilities on interstate basis also.

This barter along with graded environmental responses, efficient MRTS, flexi work timing/work from home, TOD, efficient services, disaster preparedness & resilience with real time monitoring and management of environment, will make Delhi smart city. The buildings of cities also need to be retrofitted for structural safety and sustainability. But in long term, new cities need to be planned and developed, as there is a physical limitation of water, sewerages, air, traffic, public spaces , houses , services and business centres on any given land area.

\*Writer is a civil cum structural engineer and research scholar in GGSIP University, Delhi, having interest in sustainable and safe built environment. He has done extensive works in affordable housing on pan India basis including third party monitoring in other countries also. He can be contacted at [dbansalindia@gmail.com](mailto:dbansalindia@gmail.com) \*\* Writer is professor of civil & environmental engineering in DTU, Delhi, and has served in CPCB. He has done many environmental studies. These are personal views of the writers and the organizations for which, they work or are associated with, may or may not subscribe these views.

## Member's Achievement

CEAI National Awards Ceremony 2017 was organized on 23 Apr 2018 at the PHD Chamber of Commerce in New Delhi, where IAStructE Governing Council members were honored in the following category:



*Mr Subhash Mehrotra receives Award for Engineering Innovation for Individual*

The Award for Excellence in Engineering Innovation by an Individual was given to **Mr Subhash Mehrotra, Mehro Consultants**. The project was selected for the uniqueness of the design of a Jain temple at Chennai. The main requirement of the Jain temple was that steel could not be used in the construction on religious grounds. Mr Mehrotra developed an innovative solution using bamboo reinforced concrete for all components, including the foundation.



*Mr Alok Bhowmick and his team receiving the award on behalf of B&S Engineering Consultants Pvt Ltd*

The awards were categorised according to the turnover of the companies to make the competition fair. The award for Excellence in Engineering Innovation in Category 1, was given to **B & S Engineering Consultants Pvt Ltd, New Delhi.**



*Prof Mahesh Tandon and his colleague receiving the award on behalf of Tandon Consultants Pvt Ltd*

The award in the category 2 for Excellence in Project Engineering was given to **and M/s Tandon Consultants Pvt. Ltd, New Delhi.**



## New IAStructE Members

### "FELLOW" Grade Members

M/S No	Name	Designation, Organization	City
F-420	Mr Mukesh Chandra Upadhyay	Project Consultant (Bridges & Metros), L&T Infra Engineering Ltd	New Delhi
F-421	Mr N C Jain	Chief Technical Advisor, STUP Consultants	New Delhi
F-422	Mr Viswanath Nair N.	Chief Consultant, Santulit Consulting	Kochi
F-423	Mr Aashutosh Desai	Structural Consultant	Vadodara
F-424	Mr Sanjeev Kumar Sharma	Managing Director, Melior Structural Solutions Pvt Ltd	Mohali (Punjab)
F-425	Mr Sharad Gupta	Proprietor, Sanrachna Consultants	New Delhi
F-426	Mr Manas Mohon Ghosh	Assistant General Manager (Civil & Struct), INSDAG	Kolkata
F-427	Mr Om Prakash Singh	Sr. Project Engineer, Road Construction Department Bihar	Patna
F-428	Mr Antonia Olavo Carvalho	Structural Consultant	Goa
F-429	Mr Shiv Singh Beniwal	Principal Consultant & Partner, Space Consulting Engineers	New Delhi
F-430	Mr Somendra Nath Jasu	GM-Technical, Geo Design & Research (P) Ltd	Vadodara
F-431	Ms Ami S. Desai	Proprietor, Ami Consulting Engineer	Vadodara
F-432	Mr Rajesh Kumar Singh	Chief Engineer, Konkan Railway Corporation Ltd	Gurgaon

### "MEMBER" Grade Members

M/S No	Name	Designation, Organization	City
M-249	Mr Anwar AliSyed	Structural Engineer	Mumbai
M-250	Rajeev Rajesh	Sr. Structural Design Engineer, Sree Giri Consultants	Kochi
M-251	Mr M. Laxmi Narasimha Rao	Chief Structural Engineer, MY HOME Constructions Pvt Ltd	Hyderabad
M-252	Dr Shilpa Pal	Assistant Professor, Civil, Gautam Budha University	Noida

M-253	Mr Hemalkumar C. Mistry	Technical Director, VHPT Systems	Surat
M-254	Mr Kunwar Khaliqe Ahmad	Design Engineer, BMSF Design Consultants	Gurgaon
M-255	Mr Syed Mukarram Ali	Chief Consultant, MAS Consulting Engineers	Hyderabad
M-256	Dr. Akshay S. K.Naidu	Associate Professor, Civil Engg, Methodist College of Engg& Tech.	Hyderabad
M-257	Mr Om Narayan Mishra	General Manager, Tirupati, Build Con Pvt Ltd	Bhopal
M-258	Mr N Ramesh Yadav	Sr. Engineering Consultant, L&T Infra Engineering Ltd	Hyderabad

“ASSOCIATE MEMBER” Grade Members

M/S No	Name	Designation, Organization	City
AM-239	Mr J. Parvesh	Structural Coordinator, EDECONS Consultants	Hosur (TN)
AM-240	Mr F. Safi Ahamed	Design Engineer, Veekay Design	Thanjavur (TN)
AM-241	Mr Avinash Kumar Singh	Project Assistant-III, CSIR	Bhopal
AM-242	Mr Abbas Ahmad Alvi	Design Engineer in VAM Consulting Engineers & Architects Pvt Ltd	Kanpur
AM-243	Mr Rohan Majumdar	Assistant Professor, Sir Padampat Singhania University	Udaipur
AM-244	Mr Harshav Sethi	Design Engineer, Integra Ventures	Noida
AM-246	Mr Subhadeep Sinha	Design Engineer	Delhi
AM-247	Dr Joy Pal	Assistant Professor, Civil, Bennett University	Noida
AM-248	Mr Harpreet Singh Sajan	Design Engineer, Engineering & Development Consultants Pvt Ltd	Noida
AM-249	Mr Bhuvnesh Kapoor	Structural Engineer, Sweco India Pvt Ltd	New Delhi
AM-250	Mr Santhosh Kumar V.	Proprietor, VSK Builders	Erode (TN)
AM-251	Mr Ashutosh Sharma	Jr. Cadd Engineer, Dimension India	Noida
AM-252	Mr R. Krishna Raju	Proprietor, Raja Builders	Ramanathapuram (TN)

AM-253	Mr Abhijeet A. Shete	Design Engineer, Exubranza Engg. Sol. LLP	Sangli (Maharashtra)
AM-254	Mr Sudhakar Deo Bhagat	Design Engineer, Sudha Technical Consultants	New Delhi
AM-255	Ms Devyani Tevatia	Design Engineer, Mehro Consultants	New Delhi
AM-256	Mr Gaurav Ghai	Design Engineer, B&S Engg. Consultants Pvt Ltd	Noida

**“Student MEMBER” Grade Members**

M/S No	Name	Institution	City
S-332	Mr K. Sravan Reddy	Methodist College of Engg. & Tech.	Hyderabad
S-333	Mr P. Narendhar Kumar	Methodist College of Engg. & Tech.	Hyderabad
S-334	Mr Pushpak Surampally	Methodist College of Engg. & Tech.	Hyderabad
S-335	Mr S. Sudheer Kumar	Methodist College of Engg. & Tech.	Hyderabad
S-336	Mr T. Ravi Teja	Methodist College of Engg. & Tech.	Hyderabad
S-337	Mr K. Raghavendra Sameer	Methodist College of Engg. & Tech.	Hyderabad
S-338	Mr Shoban Babu Ajmeera	Methodist College of Engg. & Tech.	Hyderabad
S-339	Mr Padwal Megharaj	Methodist College of Engg. & Tech.	Hyderabad
S-340	Mr Kurliye Pratim Kumar	Methodist College of Engg. & Tech.	Hyderabad
S-341	Mr Dosala Mamatha	Methodist College of Engg. & Tech.	Hyderabad
S-342	Ms M. Samkeerthana	Methodist College of Engg. & Tech.	Hyderabad
S-343	Ms Gajula Usha	Methodist College of Engg. & Tech.	Hyderabad
S-344	Ms Thirumala Prashanthi	Methodist College of Engg. & Tech.	Hyderabad
S-345	Ms Avudurthi Ramya	Methodist College of Engg. & Tech.	Hyderabad
S-346	Mr Dasa Manideep	Methodist College of Engg. & Tech.	Hyderabad
S-347	Ms P. Jyoshna	Methodist College of Engg. & Tech.	Hyderabad
S-348	Mr A. Deepak Yadav	Methodist College of Engg. & Tech.	Hyderabad

S-349	Mr Shaik Mahboob Basha	Methodist College of Engg. & Tech.	Hyderabad
S-350	Mr Imran Ali Khan	Methodist College of Engg. & Tech.	Hyderabad
S-351	Mr M. Kanaiah Kumar	Methodist College of Engg. & Tech.	Hyderabad
S-352	Mr Manoj Kumar Mylam	Methodist College of Engg. & Tech.	Hyderabad
S-353	Mr Akash Kumar Gade	Methodist College of Engg. & Tech.	Hyderabad
S-354	Mr B. Manoj Raju	Methodist College of Engg. & Tech.	Hyderabad
S-355	Mr S. Anvesh	Methodist College of Engg. & Tech.	Hyderabad
S-356	Mr Alakayala Anand	Methodist College of Engg. & Tech.	Hyderabad
S-357	Ms B. Shalini	Methodist College of Engg. & Tech.	Hyderabad
S-358	Mr A. Praveen	Methodist College of Engg. & Tech.	Hyderabad
S-359	Mr H. Shiva Prasad	Methodist College of Engg. & Tech.	Hyderabad
S-360	Mr E. Rohit Raj	Methodist College of Engg. & Tech.	Hyderabad
S-361	Mr V. Vamshi	Methodist College of Engg. & Tech.	Hyderabad
S-362	Mr Inamullah Shariff	Methodist College of Engg. & Tech.	Hyderabad
S-363	Mr P. Sai Kumar	Methodist College of Engg. & Tech.	Hyderabad
S-364	Mr A. Sai Charan	Methodist College of Engg. & Tech.	Hyderabad
S-365	Ms P. Hemantha Sudha	Methodist College of Engg. & Tech.	Hyderabad
S-366	Ms Asiya Parveen	Methodist College of Engg. & Tech.	Hyderabad
S-367	Ms L. Srilatha	Methodist College of Engg. & Tech.	Hyderabad
S-368	Ms S. Sony	Methodist College of Engg. & Tech.	Hyderabad
S-369	Ms S. Pragnya	Methodist College of Engg. & Tech.	Hyderabad
S-370	Ms S. Supriya	Methodist College of Engg. & Tech.	Hyderabad
S-371	Mr M. Vishwamitra	Methodist College of Engg. & Tech.	Hyderabad

## IAStructE 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. [To be relaunched soon]

- 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

For membership information contact Indian Association of Structural Engineers Secretariat.

### Call for advertisements

Advertisement sponsorship for the IAStructE Newsletter is invited.

For advertisement opportunities, please contact the IAStructE Secretariat.

### Call For Technical Article(s)

Selected technical article(s) will be published henceforth in the IAStructE Newsletter. High quality technical articles, project reports, research work and case studies are invited for the purpose of knowledge sharing among structural engineering fraternity.