

**MESSAGE FROM THE PRESIDENT**

Dear Friends,

Greetings!!

Happy Navratras to you all. I hope you must be doing good in your profession. We must still continue to take all precautions needed for COVID as we are gradually transiting to offline mode.

March was quite hectic month for IAStructE. Apart from several committee meetings. Governing Council meeting & Annual General Meeting was also held during this month. Apart from routine matters several important decisions were taken. It was decided to start a new quarterly newsletter "CROSSFALL". This newsletter will publish analytical reports on structural failures. Identity of reporter and the project shall be kept confidential. A robust system for this purpose has been developed at secretariat. We hope it will help fraternity to learn lessons from such incidents. In view of confidentiality people will be encouraged to report such cases. I request you to publicise it as widely as possible.

A membership drive for a short duration has been launched. It will be open till 30th June 2022. During this period processing fee shall not be charged from applicants. Wide circulation of this message will help enrol new members.

Results of IAStructE National awards 2021 have been announced. Names of all winners have been published in this newsletter and they have been intimated individually. I extend my warm wishes to all winners. I am sure these awards will gain more popularity with time. Very soon we will organise a award ceremony to felicitate award winners.

A very interesting webinar on 'Professional Indemnity (PI) Insurance in Project Development – How does it cover Structural Engineers?' has been planned for 23rd April 2022. You are requested to register for this free webinar as it will be very informative and useful for all structural/Civil engineers.

Jan-March issue of SED is under publication and shall be released in a week's time. You are encouraged to send papers/case studies for April-June issue which is dedicated to "Precast Segmental Bridges – State of The Art" theme. Mr. Alok Bhowmick is the guest Editor for this issue. For any query you may contact secretariat.

You will be happy to know that Workshop on "Assessment, Repair & Rehabilitation of Bridges" which started on 18th March 2022 has attracted good number of participants and is running smoothly.

Send your feedback on IAStructE activities. We shall be happy to publish some of them in the newsletter as well.

Best regards

Manoj Kumar Mittal
President-IAStructE

FROM THE EDITOR'S DESK

Warm greetings to all the readers!!

This March issue of the newsletters provides the glimpse of the AGM held along with other knowledge dissemination activities undertaken by headquarters and students' chapters. The most awaited results of the IAStructE national awards 2021 have been announced in the AGM

and the list is presented in the newsletter for the reference to the readers. Felicitation and "Outstanding Concrete Engineer of Telangana 2021" award conferred to Prof. Pradeep Kumar by ICI (HYDC) is also covered. To expand our strength of members, a membership drive has been started and the details can be found here. Request all our readers to follow, subscribe and like IASstructE events on all digital platforms.

Thanks & Regards,

Dr. Visalakshi Talakokula

CONTENTS

- 18 th Annual General Meeting	- 2
- IAStructE National Awards 2021	- 3
- Webinars / Events Conducted	- 3-4
- Forthcoming Events	- 4
- CROSSFALL	- 4-5
- Message from Social Media Committee	- 6
- IAStructE Library	- 6
- Membership Drive	- 7
- Call for Papers for the SED journal	- 8
- Advertisement Tariff	- 8
- IAStructE Publications	- 9
- Members Achievement	- 10
- New IAStructE members	- 10
- About IAStructE	- 11
- Membership Benefits	- 11
- How to become a member?	- 11

18th ANNUAL GENERAL MEETING

The 18th Annual General Meeting of Indian Association of Structural Engineers was organized on 25th March 2022 online through Zoom app. During which the Annual Report for the FY 2020- 21 and Audited Accounts for the year ended 31st March 2021 were adopted. The Auditor for ensuing year 2021-22 were also appointed. The members appreciated the efforts of the Governing Council for conducting the many activities like refresher courses, webinar series, publishing of technical documents and improving the financial strength of the Association in spite of the Covid period. Many more suggestions were also received from the members regarding the future activities.

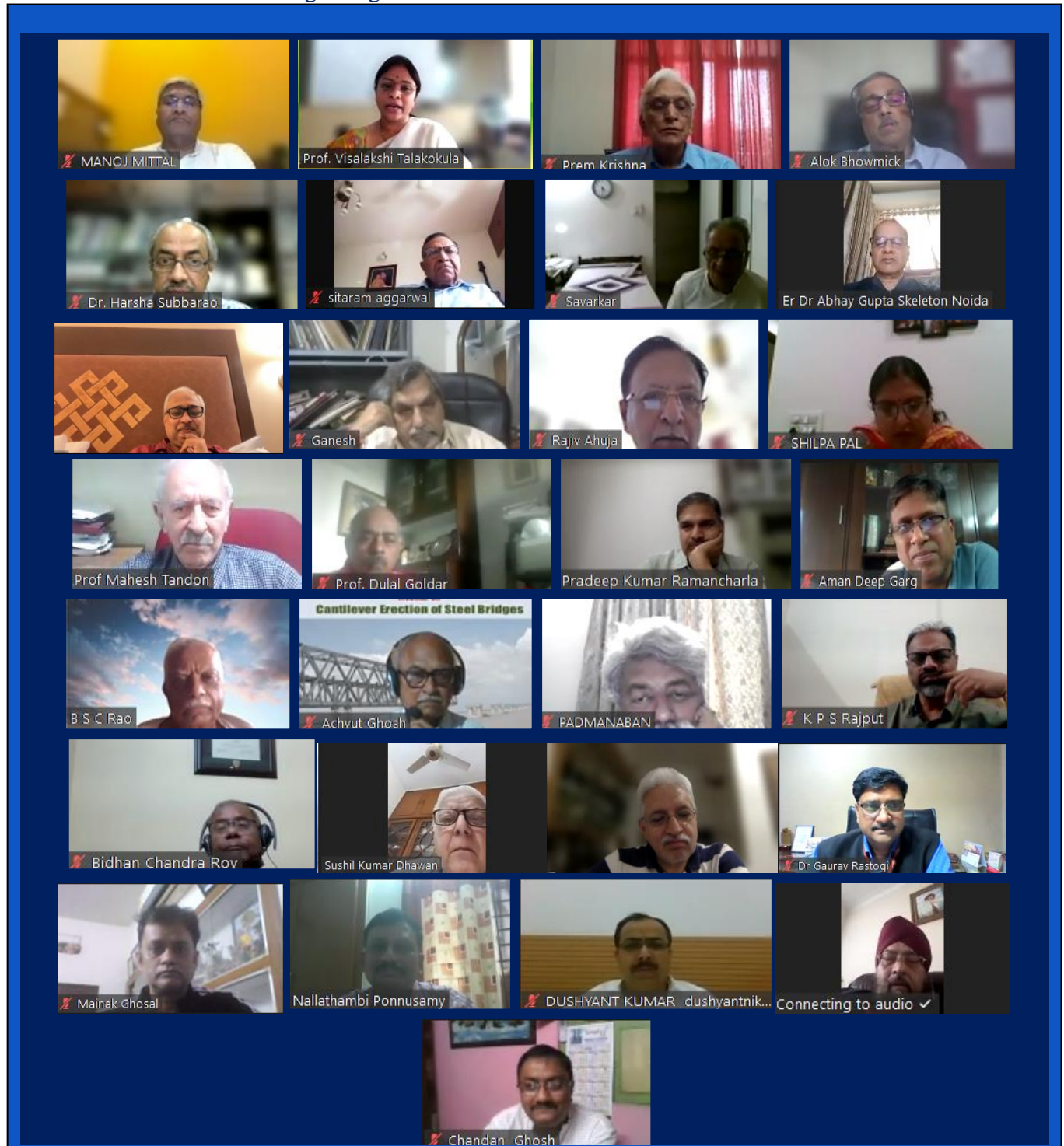


Fig.1. Glimpses from the AGM

IAStructE NATIONAL AWARDS 2021 RESULTS

The following entries have been declared winner for the National Award IAStructE 2021 in the various categories as given below:

1. Outstanding Structure Awards

- ★ ***Buildings including, residential & commercial buildings, hospitals, schools etc.–***
Larsen & Turbo Limited for the Narendra Modi Cricket Stadium (GCA), Ahmedabad
- ★ ***Other than Buildings such as, Bridges; Large span space structures for sports, exhibitions; industrial structures, monuments –***
Professor S. Arul Jayachandran for Memorial of Former Chief Minister of Tamil Nadu, Puratchi Thalaivi Selvi Jayalalithaa -Phoenix Memorial, Marina Beach, Chepauk, Chennai

2. Outstanding Structural Engineer Award

- ★ **Mr. V. N. Heggade**, Former CEO of STUP & Former Executive Director of GAMMON

3. Outstanding Woman Structural Engineer Award

- ★ **Dr. K. P. Jaya**- Professor and Head, Department of Civil Engineering at Anna University, Chennai
- ★ **Dr. Piyali Sengupta**- Professor at IIT, Dhanbad
- ★ **Ms. Papia Mandal**- DGM-Structural at Engineers India Limited

4. Promising Young Structural Engineer Award

- ★ **Dr. Debdutta Ghosh**- Senior Scientist (Structural Engineering Group) at CSIR

5. Best M. Tech Thesis Award 2020

- ★ **Ms. Malavika V. A.**, Vellore Institute of Technology (Vellore Campus)

6. IAStructE Lifetime Achievement Award

- ★ **Shri Mahendra Raj**, Founder President and GC Member of IAStructE

WEBINARS / EVENTS CONDUCTED

ONLINE WORKSHOP (Ongoing)

Online Workshop on “**Assessment, Repair & Rehabilitation of Bridges**”, which was launched on 18th March 2022 and will continue till 15th April 2022. The lectures are being organized on every Friday. Mr. Umesh Rajeshirke, Vice President (West), IAStructE & Managing Director, Spectrum Techno Consultants Pvt. Ltd. is the Course Coordinator. The course is being attended by 80 delegates. It has been supported by Mageba Bridge Products Pvt Ltd, Hilti Pvt. Ltd. and VSL India Pvt. Ltd. Prof. Achyut Ghosh and Mr. V. N. Heggade were invited as the Panelist. The following speakers were made their presentation during the two sessions organized, so far:

- ★ **Dr. Harshavardhan Subbarao** CMD, Construma Consultancy Pvt Ltd
- ★ **Dr. Tomonori Nagayama** Associate Professor, Department of Civil Engineering, University of Tokyo
- ★ **Dr. Lakshmy Parameswaran**, Chief Scientist, CSIR-CRRI

- ★ Prof. Arul Jayachandran, Professor IIT Madras, Chennai
- ★ Mr. Anirban Sengupta Senior Vice President (Technical), Assystem STUP
- ★ Mr. Alok Bhowmick MD, B&S Engineering Consultants Pvt. Ltd.
- ★ Mr. Sivakumar Balachandran, Technical Manager VSL India



Fig. 2. Glimpses from the Online Workshop

IAStructE CEPT STUDENT CHAPTER ACTIVITY

Webinar on “Roadside Safety Barrier Systems: Evaluation & Design”

A webinar on “Roadside Safety Barrier Systems: Evaluation & Design” by Dr. Mehrtash Soltan, Freelancer, Social Media Marketing; United Arab Emirates was organized on 11th March 2022.

FORTHCOMING EVENTS

Event	Topic	Speaker	Date & Timing
Webinar	Professional Indemnity (PI) Insurance in Project Development – How does it cover Structural Engineers Registration link: https://us02web.zoom.us/join/registration/WN_zsq7TK-RHmnfxQI9MiAhg	Mr. Pooba Mahalingam Regional Risk Consultant(Singapore)	23 rd April 2022 at 04:30 PM (IST)

CROSSFALL (Confidential Reporting of Structural Failures and Lessons Learnt)

IAStructE is starting a unique quarterly newsletter "CROSSFALL" (Confidential Reporting of Structural Failures and Lessons Learnt), where the reporter's name and identity as well as the project name, location and identity will not be divulged. IAStructE has developed a multi layered robust mechanism to keep the identity of the reporter & Project confidential.

The objective of this newsletter is to share lessons learnt from “structural failures” or “near misses” or even “concerns” and help to prevent / mitigate future catastrophic failures by providing insight into how safety issues occur and spurring the development of safety improvement measures.

The poster giving more details is attached herewith for your kind perusal. Interested Professionals may visit the following link to get more information regarding procedures and to submit the report about structural safety issues related to any type of structures: www.iastructe.co.in/crosfall.php



CROSFALL

(Confidential Reporting of Structural Failures & Lessons Learnt)

A Quarterly
Newsletter
of
Indian Association
of Structural
Engineers

INTRODUCTION

CROSFALL is a unique newsletter created by Indian Association of Structural Engineers (IAStructE). Its purpose is to share lessons learnt from structural failures, near-misses and safety concerns. CROSFALL has a confidential reporting system, which allow safety issues to be reported by professionals, without exposing their identity and without creating concerns in areas like co-worker relations, client loyalty, or insurance. Any identifiable details, such as a project, product, individual or organisation, will remain completely confidential to CROSFALL editorial team. Reporters' personal information will be collected to only verify the contents of the report, and to communicate with the reporter if necessary, but this will also remain strictly confidential.

The newsletter will report only safety related issues with the objective to learn lessons from such failures and to help prevent future structural failures, by providing insight into root causes of such failures and spurring the development of safety improvement measures.

CROSFALL team will depend on professionals to submit reports, whenever they can share their concerns about what they see around or what they experience on any real-life projects. Anyone involved in the civil engineering industry is welcome to submit a report. The more reports submitted, the better CROSFALL can identify and quantify safety issues across the industry. This will help the entire industry to learn lesson from CROSFALL publications.



WHAT CAN BE REPORTED?

CROSFALL welcomes reports about structural safety issues related to all types of structures (i.e. buildings, bridges, tunnels, industrial structures etc.) in the built environment. 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.

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.



For more details and to submit the report please go through the following link: www.iastructe.co.in/crosfall.php

For further query you may contact iastructe.crosfall@gmail.com

Message from IAStructE Social Media & Digitization Committee

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

With all new look of our website and media handles, 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

IAStructE LIBRARY

IAStructE has setup a library in the Secretariat, K-69 A, Basement Kalkaji, New Delhi. It has collection of good technical books and journal related to civil & structural engineering. Most of the books have been donated by Shri Mahendra Raj and the family of Late Dr Ajoy Mullick. (The detailed list is attached as Annexure 1). Members staying in the vicinity are encouraged to utilize this facility, and if you want to contribute your books and journal to the library you are always welcomed.



Fig. 2. View of the books in Library

MEMBERSHIP DRIVE

IAStructE Governing Council has decided to start the membership drive for a short duration. During this period Structural Engineers may apply for IAStructE Membership as per eligibility without paying the Processing Fee. The poster giving more information about the membership drive is attached herewith for your perusal. Interested structural engineers may also visit our website <https://www.iastructe.co.in/> for more information about the association and to visit the following link to get more information about membership requirements: <https://www.iastructe.co.in/membership-grades.php>.



Indian Association of Structural Engineers



ALL INDIA MEMBERSHIP DRIVE 2022

Till 30th June 2022

Hurry Up now to join IAStructE as Fellow/Member/Associate Member/Student Member
***Processing fee waived**

About IAStructE

The Indian Association of Structural Engineers (IAStructE) is a purely professional learned society devoting all its activities to development of the Structural Engineering profession in India. It has no commercial aim or objective. Its membership is restricted to Structural Engineers with proven competence and credibility, in the engineering profession in India. The aim of the Association is to exchange knowledge and to advance the practice of structural engineering worldwide in the service of the profession and society.

Benefits of joining IAStructE

- ✓ Membership of IAStructE is a public acknowledgement of your holding a recognized educational qualification, adequate experience and competence to practice the profession of Structural Engineering in India.
- ✓ By joining the Association, you will be able to network with many engineering specialists and committed experts having a vision of sustainable future for Structural Engineers.
- ✓ Membership of IAStructE enables you easy and convenient access to continuing education courses, seminars, workshops, technical lectures, etc. to keep you abreast of the advancements taking place the worldover in the practice of the profession.
- ✓ The various professional activity programmes organized by IAStructE open up an opportunity for you to interact with other professionals.
- ✓ Membership of IAStructE is also considered valuable by many engineering organization, institutions & authorities

How to Join IAStructE

To know about membership grades, eligibility requirement, membership fees and to fill the Membership Applications form online and to get the details of membership fees, visit the following link: <https://www.iastructe.co.in/membership-grades.php>
(Life membership options are also available as per the various age slab group)

- ✓ **Documents required to be submitted :** Self-attested copies of academic qualifications, experience certificates, detailed biodata (CV) highlighting the structural design experience, List of major projects handled with owner's name, detailed writeup (minimum 250 words) of two major Projects highlighting the design and analysis approach or the details of the R&D work in structural engineering, three supporter's recommendations.

(Please read carefully all the instructions given in the guidelines for filling of Form before submitting the application. All the fields of the form are mandatory & to be filled in properly.)

Processing of Application form

After receiving all the documents Membership Committee will scrutinize the application form and in order to know more about applicants, a virtual interaction with membership committee members shall also be scheduled..

For any further query or details IAStructE Secretariat can be contacted
Email: iastructe@gmail.com; Tel: 011-45794829

CALL FOR PAPERS FOR THE THEME BASED ISSUE OF SED JOURNAL

SED Editorial Board invites article contributions for the forthcoming issue of the Structural Engineering Digest on the following theme, which shall be published in e-book format. Details are as under:

April – June 2022 issue: Theme: Precast Segmental Bridges – State of The Art

Guest Editor- Mr. Alok Bhowmick, Immediate past President IAStructE

Sub Themes:

- ★ Planning & Conceptual Design
- ★ Construction
- ★ Bridge Deck Erection Issues
- ★ Detailed Design Considerations
- ★ Failure Case Studies
- ★ Rehabilitation Case Studies
- ★ Structural Health Monitoring & Maintenance Issues
- ★ Casting, Handling and Storing Precast Segments in Casting Yard

Interested professionals may send the abstract along with their photograph and brief resume by 15th April 2022 and the full paper by end of April 2022 or 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.

Interested authors/ contributors may kindly mail to iastructe@gmail.com regarding i) Broad guidelines on areas of coverage; ii) size of the article; iii) format of paper submission.

As per the laid down procedures all the papers shall be sent to the referee for review and the comments will be informed to the authors for incorporating the same. Papers shall be published after peer review & approval of SED editorial board.

ADVERTISEMENT TARIFFS

Structural Engineering Digest (being published in PDF format)

	<i>Rates Per issue</i>	<i>Discounted rate at 20% for 4 consecutive issues</i>	<i>Advertisement Size</i>
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)

- ★ **Half page:** Rs. 7,000/- + 18% GST per issue, 10% rebate for quarterly, 20% rebate for half yearly and 30% rebate for yearly booking.
- ★ **Full page:** Rs. 10,000 per issue, 10% rebate for quarterly, 20% rebate for half yearly and 30% rebate for yearly booking.

IAStructE PUBLICATIONS

Commentary with Worked Examples for IRC: 6-2017: It is a document having commentary with worked example on IRC: 6-2017 (The code for Loads & Load Combinations for design of Highway Bridges). This commentary is in two separate volumes. Volume-1 pertains to the Commentary while Volume-2 pertains to Illustrative Worked Examples. It has 48 worked examples demonstrating application of various codal clauses

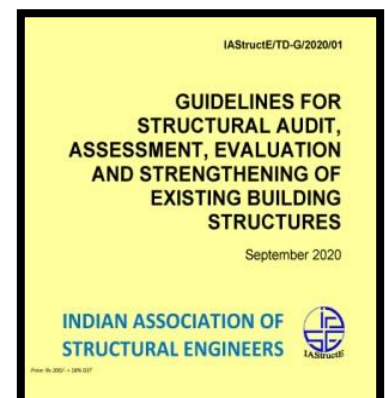
IAStructE/TD-CC/2020/02	IAStructE/TD-CC/2020/01
COMMENTARY WITH WORKED EXAMPLES FOR IRC:6-2017	COMMENTARY WITH WORKED EXAMPLES FOR IRC:6-2017
STANDARD SPECIFICATIONS AND CODE OF PRACTICE FOR ROAD BRIDGES	STANDARD SPECIFICATIONS AND CODE OF PRACTICE FOR ROAD BRIDGES
SECTION II : LOADS & LOAD COMBINATIONS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

It's a priced document and hence not freely downloadable.

The documents are available for sale @ Rs 1200/- for Volume 1, and @ Rs 800/- for Volume II. Members of IAStructE and IRC will be entitled for a discount of 10% on this amount. Interested professionals who wish to purchase the commentary may kindly register with the following link or contact IAStructE Secretariat at iastructe@gmail.com:

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

2. 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. These guidelines may be used by IAStructE members, all other structural engineers, house owners, housing society welfare associations, clients and corporation engineers for understanding structural audit of the private and public building structures. The Guideline focuses on the urgent need to strengthen risk resilience of buildings from any kind of risks due to earthquake and other hazards. It is hoped that this document will be useful to ensure that all structures across the country remain safe from any kind of disaster risk.



It's a priced document and hence not freely downloadable.

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>

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

4. 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.

MEMBERS ACHIEVEMENT

Prof. R. Pradeep Kumar, Professor & Head, Earthquake Engineering Research Centre, IIT Hyderabad and Vice President (South) IAStructE was conferred with “Outstanding Concrete Engineer of Telangana 2021”. This award is constituted by Indian Concrete Institute (HYDC) and UltraTech Cements and is given for the recognition of services for the promotion of concrete structures. The award was presented by Mr. Vinay Gupta, President ICI, Dr. V Ramachandra, Principal Technical Advisor, UltraTech and Shri Srinivas Reddy, Chairman ICI-HYDC in a function on 23rd March 2022.



NEW MEMBERS

“Honorary Fellow” Grade

<i>M/S No</i>	<i>Name</i>	<i>Designation, Organization</i>	<i>City</i>
HOF-06	Dr. N. Subramanian	FNAE, FIE, F. ASCE, Consulting Engineer, Gaithersburg, MD 20878, USA	Gaithersburg, MD, U.S.A.

“Fellow” Grade

<i>M/S No</i>	<i>Name</i>	<i>Designation, Organization</i>	<i>City</i>
F-512	Mr. Krishna Pal Rajput	Chairman, Reliable Construction Bhopal	Bhopal (MP)
F-513	Ms. Tanuja Singh	General Manager, Doosan Power System India Pvt. Ltd.	Haryana
F-514	Mr. Kesavachandra Sekhar Chollangi	Senior Associate Vice President, Head of Engineering & Design - T&D Sterlite Power	Haryana

“Member” Grade

<i>M/S No</i>	<i>Name</i>	<i>Designation, Organization</i>	<i>City</i>
M-327	Mr. Praveen Kumar Pathak	Deputy Chief Project Manager, DFCCIL	Prayagraj (UP)

“Associate Member” Grade

<i>M/S No</i>	<i>Name</i>	<i>Designation, Organization</i>	<i>City</i>
AM-354	Lt. Col. K. Purna Chandra Rao	Additional Director General	Secunderabad (AP)

“Student Member” Grade –

Thirteen Students - Delhi Technological University



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