



## Consulting Engineers Association of India NEWSLETTER

AUGUST 2020

[www.ceai.org.in](http://www.ceai.org.in)

### FROM THE **PRESIDENT'S DESK**



IN THIS

# ISSUE

Dear Friends,

It is the time to celebrate the Diamond Anniversary of our Association in an appropriate manner and style!

The Anniversary Committee is active, and have already charted a series of events, in keeping with the present restrictions, but involving the entire fraternity.

The motto of CEAI is to take the engineering community forward to the future, ready for the New Normal, well equipped with new technology, and the themes of the four webinars have been selected accordingly.

The program for the webinars are:

- Safety in Engineering- September 29<sup>th</sup>, coordinated by the Western Zone.
- Technology of the future - AR & VR- October 16<sup>th</sup>, by Northern Zone
- Better Operation and Maintenance of Assets, November 19<sup>th</sup>, by E&NE Zone
- Digitalisation of Engineering Industry, December 18<sup>th</sup>, by Southern Zone

The concluding session of the celebration is scheduled to be in February 2021, close to our Founding Day, and it is our hope that, cessation of the pandemic by that time, will allow us to make it a Gala Celebration, with physical presence of members, at Delhi. The final program details, though well conceived, can be implemented, dependent on the developments in our Corona environment.

Despite the severe restrictions imposed, your association has been able to maintain its tempo of intervention with the various authorities and you will find details of that inside.

CEAI has now set its sight on upgrading the Consultancy profession by putting thrust on the aspects of Integrity, Ethics and Security for the engineering community. The objective is to get rid of the curse of corruption, and its effect on the quality of deliverables, that plagues the development projects of the country.

We shall soon launch a series of webinars on these themes and would look forward to proactive support from all our members. Our vision is to achieve recognition for all our member fraternity, as the most dependable and trusted professionals of the country. We implore on you friends, to help us achieve this goal within the shortest timeframes!

Warm regards,

Amitabha Ghoshal

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**ONLINE TRAINING ON “SOFTWARE SOLUTIONS FOR WATER ENVIRONMENT AND TRANSPORTATION INFRASTRUCTURE”**

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**LEGISLATION FOR THE PROFESSION OF ENGINEERING**

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#### CEAI INTERVENTION:

- **CEAI'S SUPPORT TOWARDS SOLVING WATER LOGGING PROBLEM IN DELHI**
  - **INTERACTION WITH CHAIRMAN NHAI**
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#### MEMBER NEWS

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#### VIEW POINT

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## ONLINE TRAINING ON “SOFTWARE SOLUTIONS FOR WATER ENVIRONMENT AND TRANSPORTATION INFRASTRUCTURE”

CEAI successfully organized its first Online Training, on the topic “**Software Solutions for Water Environment and Transportation Infrastructure**” on 20<sup>th</sup> August 2020.

President CEAI, welcomed the speakers and participants to this online training program.

The training was conducted in two sessions. The **FIRST SESSION** was on the topic of Water, Wastewater and Stormwater software solution for Project Lifecycle.

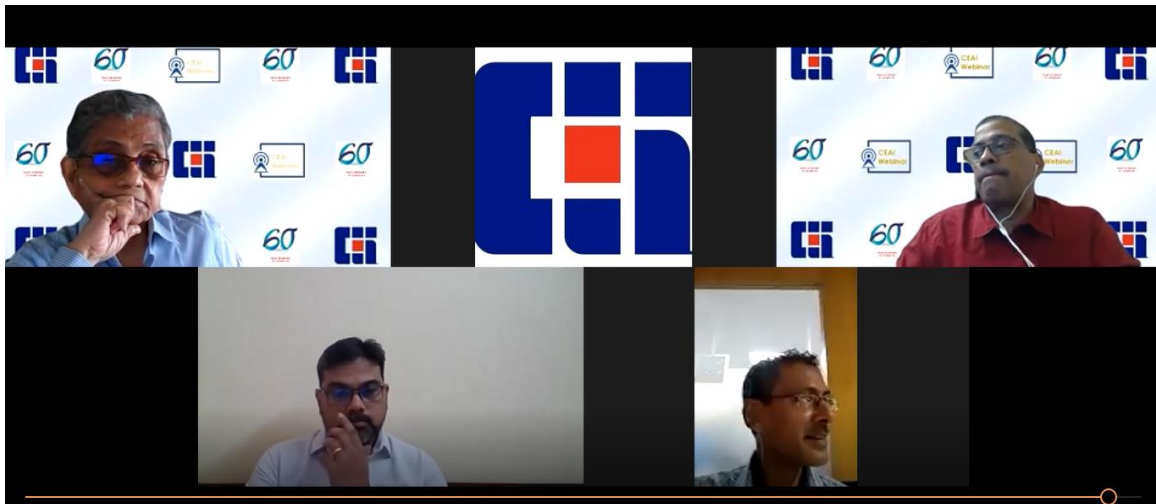
### Speakers for this session were:

- Dr Ajay Pradhan, Cetus Consulting Solution Services
- Mr Suneet Manjavkar, Bentley
- Mr Sanjay L Lalan, Tata Consulting Engineers Ltd

The **SECOND SESSION** was held on **Transportation lifecycle Software solution with BIM & Digital Twin**

### Speakers for this session were:

- Mr Aseem Prabhakar, ICT Pvt Ltd
- Mr Kasturi Srinivas, Bentley
- Mr Roshan Bucha, Bentley



The session proved to be very lively and left the participants longing for more of such training webinars.

## LEGISLATION FOR THE PROFESSION OF ENGINEERING

By A P Mull, Past President CEAI

Development, Growth, Safety, Health, Sustainability, et al are the terms often heard now a days since they are synonymous with progress and providing a better quality of life for the people. Let's look at who all are involved in making these a reality and also ensure that they continue to function and perform as intended. The person who comes up with the idea is the of course the first one. That person could be from any strata of the society, any sphere of activity and any profession. To turn that idea in to reality would thereafter need others to be brought in, first to develop that concept further, next to study its feasibility and, if viable, to take it forward. Depending on the sector that the idea pertains to, specialists from that sector would be required. However, **to make the idea fructify, Engineers are a MUST.**

The **pandemic has amply demonstrated the power of technology** and how that has been able to keep the wheels of all sectors moving in spite of lockdowns.

The Indian Institute of Technology Bombay, which also happens to be my *Alma Mater*, held its Convocation on 23<sup>rd</sup> August 2020. It was a Virtual Convocation and held deploying 'digital avatars' of the Chief Guest, Guest of Honor, Director, Students, et al. **Would that have been possible without the Technologists?** The Technologists - the Scientists and Engineers are groomed within the hallowed portals of such institutes. It is they who enable such transformations and progressive deployments from what they learn.

All the infrastructure development that the nation needs – the houses for the millions, the water and sewer systems, the roads, the highways, the railways and metros, the airports, the ports & harbors, the dams and canals, the power plants and transmission lines, oil & gas plants, chemical and industrial plants, nuclear, space,... and the list goes on. They all need qualified, experienced Engineers with demonstrated capabilities to conceptualize, plan, design, construct/ execute, operate and maintain them. Even, for agriculture to yield better harvests, Agricultural Engineers need to be in the forefront. **Without Engineers, those ideas would remain a dream.**

Engineers have been demanding legislation for the Profession of Engineers for decades. However, for reasons unknown, many other professions have been made legally recognized professions but, that of Engineers is still not done.

The number of Engineers is by far the largest body of professionals, but as yet there is no single authority to register and regulate them. On the other hand, Doctors, Chartered Accountants, Company Secretaries, Cost & Works Accountants, Advocates and Architects are much smaller in number, but all are covered by legislations.

***Legislation for the profession of Engineering is essential to regulate Engineers and bring in accountability and responsibility. That would ensure Safety of the built environment.***

## CEAI INTERVENTION

### CEAI'S SUPPORT TOWARDS SOLVING WATER LOGGING PROBLEM IN DELHI

Shri K K Kapila and Dr Ajay Pradhan, along with a colleague, called on the Water Minister Shri Satyendra Jain at Delhi State Secretariat on 19<sup>th</sup> August 2020. The meeting was attended by the Minister, Mr Ankit Srivastava, Technical Advisor, and the Secretary of the Department.

The CEAI team made a small presentation on the overall drainage and storm water management system of Delhi and recommended initiation of preparation of a new Drainage Master Plan, as the last one was almost four decades old. The City has grown exponentially in this period. Since the preparation and implementation of master plan of a mega city like Delhi will take about 8-10 years, we need to adopt short term measures to mitigate the bottlenecks of critical water logged areas in capital city of Delhi.

CEAI's team made a presentation on the need for Rain Water Harvesting Structure in proximity of water logged areas, by identifying suitable sites, to utilise storm water for ground water recharging. This solution will give an opportunity for Delhi, to use flood water, for increasing the already depleting ground water table.

The meeting ended by agreeing on the next step, that will be to coordinate with the Technical Advisor, towards planning, designing and implementation strategy, in few pilot areas.

### MEETING WITH CHAIRMAN, NHAI

After consistent follow up, the first meeting with Chairman, NHAI, was set up for discussing the various problems faced by the Consultants, over long periods. From CEAI side, the meeting was attended by members of Infrastructure Committee, few members and the President. Longstanding problems like, ways for improvement of quality of DPRs, QCBS mode for selection of Consultants and improvement of release of payments to Consultants were discussed, in a congenial atmosphere, in the presence of senior members of NHAI administration. Enthused by the proactive nature of discussions held, the Chairman, NHAI, proposed that, such dialogue should be held at regular intervals, to improve the quality of planning, design work and implementation of Highway sector projects. Mr K K Kapila, Chairman, Infrastructure Committee, who led the discussions on behalf of Consultants, readily agreed. ( *Detail report will be published in next issue of View Point* )

## MEMBER NEWS

### Dr. Ajay Pradhan, Vice President CEAI invited to join as a Member in the Government Task Force and Industry body on Water



Dr. Ajay Pradhan, Vice President, CEAI; President & CEO, Cetus Consulting Solution Services Pvt. Ltd. has been invited to join as a Member of two national committees.

- a. Ministry of Jal Shakti, Government of India – Task Force on Surface Water
- b. CII National Committee on Water 2020-2021

#### Ministry of Jal Shakti, Government of India:

**Member of the Task Force – Preparation of Comprehensive Road Map on Water Management in India.** As a member of the Task Force, responsible to the Sub-Committee on Surface Water - River Rejuvenation, Flood Control and Dam Safety. The Committee will address the current water crises in India, chalk out a road map for fair, judicious and equitable use of water in India and recommend scientifically considered suggestions that the Government of India can consider for implementation.

#### Confederation of Indian Industry (CII):

**Member of the National Committee on Water (2020-2021).** As a member of the National Committee, to provide support and input of the industry views towards finalisation of Water Policy. Helping government towards preparation of national guidelines for ground water extraction and management for industry, policy issues on reuse of water, zero liquid discharge, etc. CII Water Institute acts as a think tank towards knowledge dissemination including best practises.

Dr. Ajay Pradhan, has worked on water issues of the country and brings with him excellent knowledge and experience.

### Presentation by Dr Harshavardhan Subbarao



Dr. Harshavardhan Subbarao, GC member and Past Vice-President CEAI., and CMD of Construma Consultancy, gave a webinar organised by Kerala Highway Research Institute KHRI in association with IIT Madras on 22.08.2020. His excellent presentation was titled “Recent Advances in repair and Rehabilitation of Bridges”. The topics covered by him included

1. The one of its kind suite of 10 documents on the European Standard for assessment and repair of concrete structures, *EN1504: Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity*. It provides an integrated framework for the entire concrete repair industry and all stakeholders of a given repair project. Although it is principally a product standard, it also aims to assist specifiers, clients and contractors. The Standard addresses



all stages of the repair process, from initial awareness that a problem exists, to the handover of a structure to a satisfied client where the repairs have been properly designed and executed;

2. Ultra High Performance Fibre Reinforced Concrete, UHPFRC- a wonder material for concrete repair with case studies on increasing strength, stiffness, ductility and durability of bridges
3. Use of externally applied Advanced Fibre Composites – CFRP laminates and fabric wraps, for bridge strengthening and seismic retrofitting with a case study on Cheru Bridge in Pagwara.
4. A novel external prestressing system using special compact prestressed anchorages and a unique curved mono-strand jack.

The talk was very well received with a lively Q&A session, and Dr.Harsha has promised to give the same for the benefit of a wider audience including our members, fellow professionals, academicians, students, members of the bridge community and repair industry.

### Webinar by Mr. Amitabha Ghoshal on Howrah Bridge

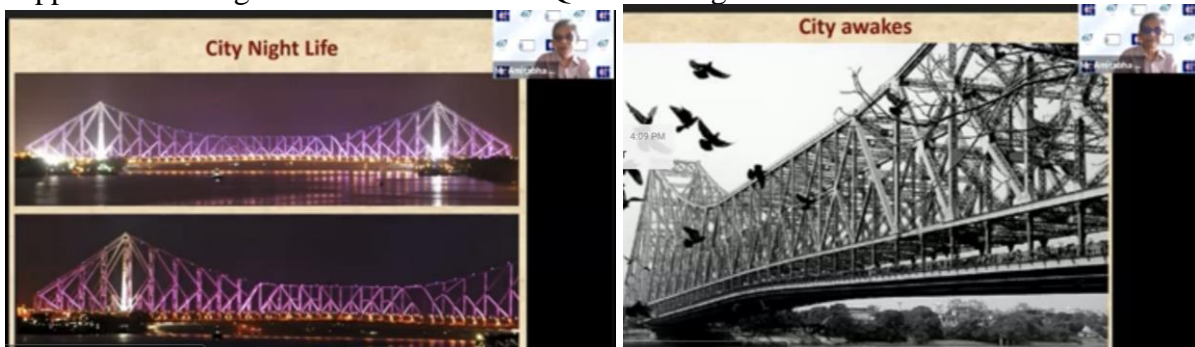


Indian Association of Structural Engineers (IAStructE) organised a webinar on the topic **“Brief Historical Review of Howrah Bridge – The first Long Span Bridge in India”** in which CEAI President Mr Amitabha Ghoshal was the speaker.

The session was chaired by Mr Alok Bhowmick, GC member of CEAI and President IAStructE and moderated by Dr Harshavardhan Subbarao.

The presentation on the bridge, completed 77 years back, brought back to the attendees, the history, planning and execution of this great bridge, lauded the world over as a technological marvel. Mr Ghoshal also dealt on the intimate relation of this bridge to the then social context, when India was in turmoil with the struggle for independence from foreign rules.

The webinar earned very wide participation with more than 400 attending the event and with more than 1100 hits on the live YouTube presentation. Very wide and involved participation happened with large number of Chats and Q & A during the session.



## VIEW POINT

Printed copies of the March and June 2020 issues of View Point has been distributed to all members, and other recipients.

The themes for the next two issues of Viewpoint would be:

- **Stakeholder Management in Public Infrastructure Projects** (September 2020)
- **Digital Engineering** (December 2020)

Considering the experience of CEAI members and various stakeholders in the subjects, CEAI would be happy to receive articles on the above themes.

Authors could share their knowledge and experience by providing case studies of the works executed or in execution, first-hand accounts of the challenges faced, practical issues experienced and the solutions to those, etc. Photographs, charts, diagrams, drawings, etc. would benefit our readers for better appreciation of the issues encountered and addressed.

The articles for an issue need to reach CEAI at least 6 weeks prior to the end of the month of the View Point issue.

Articles need to be in Times New Roman 12 with single line spacing with before and after 6 pt and normal margin on A4 size. A recent clear and bright passport size photograph of the author is to be sent along with the article.

### Advertisement in View Point

VIEW POINT is circulated to all CEAI Members, FIDIC, Ministries of the Government of India, Public & Private Sector Undertakings, Construction Firms, Contractors, Consultants, Foreign Missions and Funding Institutions in India and other organisations related to or dealing with the engineering profession.

### Advertising in the VIEW POINT gives the advertiser wide exposure and visibility.

Support from CEAI members and stakeholders are sought in increasing the number of advertisements, such that View Point gain in its stature as a unique Technical Publication.

The rates for advertisements in VIEWPOINT are given below. This is excluding GST @ 5% or as prescribed, which will be extra:

Item	Rate Per issue* (Rs)	Discounted rate at 20% for 4 consecutive issues* (Rs)
Back Cover **	25,000/-	80,000/-
Inside Front Cover ***	15,000/-	48,000/-
Inside Back Cover	15,000/-	48,000/-
Full Page	10,000/-	32,000/-

\*GST @ 5% or as prescribed will be added to the above rates.

\*\* Back Cover booked till Sept 2020

\*\*\*Inside Front Cover booked till June 2021