



Creating Value Ethically for Engineers

FROM THE

PRESIDENT'S DESK



IN THIS

ISSUE

Dear Members and Friends,

July has been yet another month full of events for CEAI. The Seminar on “Urban Mobility - Emerging Technologies” at Bhopal was very successful and educative for all concerned. There were over 150 delegates including 50 students of leading technical colleges and universities apart from the learned speakers, policy makers, consultants and contractors. It showcased the state-of-the-art technology being adopted for the Rapid Rail Transit System for some selected routes in the National Capital Region originating from Delhi, the Capital of our great country, India to the facilities for pedestrians and cyclists to make their travel in urban areas easier in a more sustainable and environment friendly manner.

With the efforts of Mr Sudhir Dhawan, Chairman FIDIC Committee, Mr. JVL Narayana, Vice President CEAI and help of the senior officers of the National High Speed Rail Corporation, New Delhi, CEAI organised one of the largest Training programme in the history of CEAI on FIDIC conditions of Contract and Dispute Resolution on Module 1 and Module 2 for a single organisation. The training was conducted by a highly experienced international expert, in four cities on the bullet train route. The total participants in the four cities were over 500, including those online.

SEMINAR ON URBAN MOBILITY AND EMERGING TECHNOLOGIES

FIDIC TRAINING- NHSRCL

FROM THE DIRECTOR'S DESK

FORTHCOMING EVENTS

CEAI ACADEMY NEWS

VIEW POINT

FIDIC PUBLICATIONS

FIDIC TRAINING COURSES

Creating Value Ethically for Engineers

CEAI plans to organise more such programmes in near future. All those who helped in conducting the training programme, including our Director needs commendation.

I am happy to inform you that the CEAI Academy is increasing its operations with the efforts of its Chairman Mr Alok Bhowmick, and an Online Training Course on a highly specialised topic - “*Design of Cable Stayed Bridges and Extradosed Bridges*” is being planned for the month of September 2024. Eminent experts in the field of design, manufacture and construction of Cable Supported Structures will deliver the lectures. It is priced nominally so that a greater number of professionals can avail the benefit.

As informed earlier, we are organising a two day Seminar at New Delhi in the month of August on ‘Quality of Design and Construction for sustainable infrastructure’. It will cover the field of rail, water and buildings. I request all of you to support the event through generous contributions in the form of sponsors and delegates.

As a follow up to recommendations given by CEAI after the Seminar on “*Quality of DPR and Construction of Highways*” held in January 2024 and the appeal to the Hon’ble Union Minister of Road Transport and Highways Shri Nitin Gadkari, NHAI has introduced Fixed Cost Basis for preparation of DPRs. The onus is now on the Consulting Engineers to provide DPRs of high quality based on thorough site data which would inter alia include all the necessary surveys, investigations, and design so that the variations and time over run during implementation are minimised.

CEAI is also focusing on increasing exports of Engineering Services. In that direction CEAI and SEPC (Services Export Promotion Council) are jointly organising the SEPC-CEAI on “*Global Services Export Conclave: Design, Engineering, Construction, R&D and Environmental Engineering Services- Infrastructure, Space, Energy (Incl. Nuclear), and Defence*” on 4th October 2024 at New Delhi. The conclave will explore new avenues for export of Engineering Services along with the participation of Multi-Lateral Institutions, Ambassadors in India and abroad and key policy makers. Consulting Engineers who are in the field of export of services and those wanting to and willing to venture abroad are invited to join in large numbers.

In the meeting of the Governing Council held in the last week of July 2024, apart from other items of the Agenda, the proposed amendment of certain Rules of Association were deliberated upon and finalised. These will be brought forth shortly before the members in an EGM. All Members are invited to attend.

Keep abreast of the events organised by CEAI and move forward professionally.

Warm regards,



R S Sharma

SEMINAR ON “URBAN MOBILITY & EMERGING TECHNOLOGIES”

The seminar on "*Urban Mobility and Emerging Technologies*" held on 19th July 2024 in Bhopal, was a big success with participation of over 150 delegates

Mr. Rajendra Shukla, Hon'ble Dy. Chief Minister Government of Madhya Pradesh inaugurated the Seminar. Mr. Alok Sharma, Hon'ble Member of Parliament (Lok Sabha), graced the occasion as the Guest of Honour.

Shri R S Sharma, President, CEAI welcomed the dignitaries, the speakers and the participants and apprised the audience about CEAI and its activities. With regards to the seminar per se he said that a substantial percentage of India's population live in cities and towns, that number is growing and the exodus is putting pressure on the services in the urban areas. The habitants of the urban areas need to travel, from their place of residence for their work, studies, etc., and to other urban areas. A lot of their productive time is being spent on travel. To reduce the time spent on travelling, urban areas are being connected through expressways and better roads within the urban areas. However, reaching the destination and travel within the urban area was currently strenuous and time consuming.

To alleviate the day-to-day problems of mobility, new modes of transport such as Rapid Rail Transit, Metros Rails, and high-speed railways are coming up. In all those, technology is also changing very fast. Fossil fuels are giving way to electric vehicles. Huge investments are being made in the USA and other developed countries on Artificial Intelligence. Big changes await all in the near future when most gadgets would be equipped with AI.

Considering the importance of Urban Mobility, CEAI had decided to hold a Seminar to deliberate on the emerging technologies in the field.

CEAI had so far organized events in Delhi and cities like Kolkata and Mumbai, hence there was concern about moving out and venturing to smaller cities like Bhopal. However, CEAI's young and energetic Secretary took upon himself the responsibility and assured that he would be able to do it. That dream has come true as this seminar is being held today in a grand manner. Shri Navneet Sharma, CEO of Lion Engineering, his entire team, all ably supported by his father Shri O.N. Sharma deserve a big applause.

Mr. R S Sharma added that during his over 50 years of professional experience both in government and private, he had observed that people are capable of implementing programmes but slip while planning. Most of the time they do short term planning and seldom think of future generations. People start thinking only when a crisis occurs.

Mr. Sharma continued and said that India has a glorifying history. Adding that the *Puranas* show that India had highly advanced technology in ancient times, he said that Indians could be world leaders even now, since they have the skills for it. It only requires able leadership, long term vision for the future and the determination to do big. He added that he was confident that the leaders both in the Centre as well as in the State of Madhya Pradesh were capable of doing that.

Moving on, Mr. Sharma said that the field of urban mobility was very vast and could not be covered in a day. It required multiple seminars, and at times different audiences. Hence, the Seminar was covering RRTS for intra-city travel, and Metros for mobility within a city.

Mr. Sharma drew attention to non-motorised transport specially bicycles which he said were also a very important mode and need to be encouraged being the most environment friendly mode especially for small distances. Pedestrian movement also needs to be encouraged as it is good for general health. He added that in developed countries such as the USA, every citizen whether young or old, healthy or handicapped travel on footpaths while going for shopping or outings. To encourage such habits in India, safe and seamless facilities need to be provided for all roads and streets. Both the modes have been included in the seminar.

Thereafter he said that with the maximum number of fatalities on Indian roads involve pedestrians and two wheelers, hence serious work is required in that field. The movement of pedestrians and non-motorised transport would increase only when a safe environment is provided for them. Mr. Sharma pointed out that apart from other advantages those modes are most suitable from sustainability consideration, as these run purely on human energy.

Mr. Sharma pointed out that students are the future leaders, hence apart from the professionals in the field of design and construction, CEAI had invited students from local colleges and universities so that they would learn about the emerging technologies from the domain experts. To explain to them there were learned speakers, who have vast experience in teaching plus there were other delegates from whom they could learn.

In conclusion Mr. Sharma said that he expected that the participants would be greatly benefitted by one-day Seminar and that CEAI would be willing to organize such seminars and training courses in future also for the benefit of the profession. He added that CEAI could help in designing pedestrian friendly roads and streets for the City of Bhopal on a sample basis which could then be replicated elsewhere.

Mr. Rajendra Shukla (Hon'ble Deputy Chief Minister, Government of Madhya Pradesh) congratulated CEAI for organizing the Seminar on Urban Mobility in Bhopal. He said that as traffic conditions were changing drastically, there was a need to update technology to deal with the need of the hour i.e., a transportation system which would be readily accessible to people in a cost-effective manner. He added that as the population, businesses and per capita income were rising, there was also an increase in the number of cars that were being driven on the roads. Therefore, the budget that they would present to the government would aim to improve the sustainability of the transportation system for the coming 50 years.

Mr. Alok Sharma, Hon'ble Member of Parliament, (Lok Sabha), while congratulating CEAI said that the seminar comprising skilled experts as well as students from different colleges and universities have verily come together. He spoke about the contribution of the new technology in urban mobility for a green economy and sustainability benefits for the present generation as well as those in the near future.

Mr. Navneet Sharma, CEO, Lion Group also welcomed and thanked the dignitaries, the speakers and the participants. Addressing the participants, Mr. Navneet Sharma said that since there was a lot of pressure on the habitants, accidents were increasingly occurring in the city and elsewhere in the country. The seminar on Urban Mobility was to discuss how and where new technology could improve the urban mobility systems and directly contribute to the improved lifestyle of the people. In the seminar, the speed and timing of the transportation system would be discussed, so that regular

commuters for work or studies could consider using the public transportation system because of its lower cost and lesser travel time. He suggested that people should consider walking to their respective destinations since that would help to improve their health and also contribute to a much greener economy. He concluded by saying that the event also aimed at discussing working more on new and improved technologies to cope with the upcoming traffic conditions in a shorter span of time.

In short, the seminar aimed at discussing the importance of emerging technologies with active collaboration from country's policy makers, consultants, contractors, researchers and academics to decide a way forward to support the government in achieving those targets set to become the world's 3rd economy.

The seminar was very well received. The participants were appreciative of the speakers and described them as 'Excellent', 'Very insightful' 'Informative', 'Amazing', 'Very lucid and very clear', 'forthright exposition of the issues', 'Very impactful', 'brilliant' and 'aptly brought out the underlying agendas', et.



**WELCOME CHIEF GUEST BY
R S SHARMA
PRESIDENT CEAI**



**Shri Rajendra Shukla
Dy Chief Minister Madhya
Pradesh**



**Shri Alok Sharma,
Member Parliament, Bhopal**

LIGHTING OF LAMP



Welcome Address: President CEAI



**Memento to Guest of Honour by
Shri O.N Sharma Chairman Organising
Committee**



**Context Setting by JVL Narayan
VP CEAI**



Address by Chief Guest



Address by Guest of Honour



VIEW OF AUDIENCE



**Session 1: RRTS- Officers from
NCRCT**



**Session 3: Non-motorised Transport
and Pedestrian Mobility**



**Session 2: Bhopal Metro- Officers
from MP Metro**



**General Manager
Bhopal Metro**



**S. Gangopadhyay –
Former Director CRRI**



**Dr. P K Sarkar (Former
HOD Transport Planning,
SPA Delhi)**



**Mr. Sudhir Dhawan
Past President CEAI**

SPEAKERS



ORGANISING TEAM



PARTICIPANTS



PARTICIPANTS

SEMINAR ON URBAN MOBILITY- EMERGING TECHNOLOGY, BHOPAL

You Tube Link: [Seminar on "Urban Mobility & Emerging Technologies" \(youtube.com\)](https://www.youtube.com/watch?v=...)

FIDIC Trainings

FIDIC Training (In-house) was organised with the support of National High Speed Rail Corporation for TCAP on 22nd & 23rd July 2024 at Ahmedabad, 25th to 27th July at Surat, 29th & 30th July at Mumbai and 31st July to 2nd August at Delhi. Over 500 officers of NHSRC and TCAP including representatives of Contractors and Consultants participated. Mr Bodgan Oprea, an international FIDIC Accredited Expert conducted the training in Module 1 and Module 2. CEAI conveys its sincere thanks to the officers of NHSRC, Mr Bogdan and all Trainees for their help and cooperation.



Felicitation-MD NHSRCL by
President CEAI

Felicitation- Directors NHSRCL by Chairman
FIDIC Committee CEAI



Shri JVL NARAYANA
VICE PRESIDENT CEAI



Shri VIVEK GUPTA,
NHSRCL



VIEW OF PARTICIPANTS

FIDIC TRAINING AT NEW DELHI



TRAINING IN PROGRESS - AHMEDABAD A



PARTICIPANTS AT SURAT



**TRAINING IN PROGRESS - MUMBAI
CEAI-FIDIC TRAINING FOR NHSRC AND TCAP – OFFICERS AND STAFF**

FROM THE DIRECTOR'S DESK

During the month of July 2024, CEAI conducted the following meetings:

- Steering Committee Meeting - 27th June 2024.
- Core Committee Meeting of CEAI Academy on upcoming online training course on “Design of Cable Stayed Bridges & Extradosed Bridges” - 16th July 2024.
- Finance Committee Meeting - 16th July 2024.
- Technical and Organising Committee Meeting on “Quality Design and Construction for Sustainable Infrastructure” - 17th & 24th July 2024.
- 12th Governing Council Meeting - 24th July 2024. The proposal for amendment of rules of association were taken up for discussion.

CEAI has planned to increase its activities of trainings, conferences, workshops and seminars in the physical mode, for the benefit of consultancy profession.

FORTHCOMING EVENTS OF CEAI

- SAIL-CEAI Seminar on “*Advantages of Parallel Flange Sections over Conventional Indian Steel Sections*” on 7th August 2024 at Mumbai.
- Seminar on “*Quality of Design and Construction for Sustainable Infrastructure*” on 12th - 13th August 2024 at New Delhi.
- Online Training Course on *Design of Cable Stayed Bridges & Extradosed Bridges* on (6th, 7th, 14th, 20th, 21st, 27th & 28th September 2024).
- *FIDIC Asia Pacific Meeting in Geneva on Global Infrastructure from September 8th-10th 2024.*
- *SEPC-CEAI Global Services Export Conclave: Design, Engineering, Construction, R&D and Environmental Engineering Services- Infrastructure, Space, Energy (Incl. Nuclear), and Defence* on 4th October 2024 at New Delhi.
- Seminar on “*Legal Matters Relating to Construction*” on 18th October 2024 in Mumbai.
- Seminar on “*Environment and Climate Change Sustainability – Challenges and Opportunities*” on 8th November 2024 at New Delhi.

MEMBER NEWS

- Major General Neeraj Bali has been appointed as Director of CEAI Academy.
- Dr Ajay Pradhan, Member Governing Council and Past President of CEAI, has been Appointed as Member of FIDIC Integrity Management Committee.
- Mr. Gagan Anand, Member Governing Council, CEAI has been appointed as Member of the FIDIC Contracts Committee, Geneva for a term of 3 years.

- Mr. Amitabha Ghoshal's article on "*Why Bridges Keep Falling in India*" was published as the lead article on the Editorial page of the New Indian Express, of 3rd July 2024. Mr. Ghoshal is a Member of the Governing Council and a Past President of CEAI. Following that, a newspaper from Bengaluru initiated an interview with Mr. Ghoshal on the subject.

CEAI Congratulates all of them.

VIEWPOINT

The theme for the September 2024 issue of CEAI's quarterly magazine "*ViewPoint*" is "*Energy Transition*". The Guest Editor for the issue is Dr. S Sakthivel, Deputy General Manager, Technology Team, TATA Consulting Engineers Limited.

Energy is one of the biggest contributors to the carbon emission issue that is at the forefront as a cause for air pollution and climate change. To stem that, different ways and means have been developed to generate electricity from non-fossil fuels. These range from Nuclear and the renewable sources - Solar, Wind, Hydro, Tidal, Geothermal and Biomass. Other than electricity generation per se, sources of carbon emissions include buildings, transportation, and industries in the final energy demand. Energy efficiency is an important part of building design. Electric Vehicles are now replacing Internal Combustion Engine Vehicles. Electric traction through Metros and High-Speed Rails is on the upswing. Focus is now slowly shifting from just electricity generation to industrial decarbonization as well.

Consulting Engineers have been engaged on projects to produce energy from alternative sources. They are invited to share about their projects set up to decarbonization through any of the renewable sources.

Articles could also be on expressing one's thoughts on new ways of doing design, construction, repairs, maintenance, etc. or even on adoption or development of new technology.

A number of consulting engineers and smaller organisations are engaged in these works which do not receive the recognition they deserve since their works do not get publicized. CEAI's ViewPoint provides an opportunity to all those engaged in such activities to share case studies of their achievements, how they addressed the challenges faced, practical issues experienced and the solutions to those, etc. in the various disciplines of engineering. Photographs, charts, diagrams, drawings, etc. would benefit readers for a better appreciation of the issues encountered and the manner in which they were addressed.

The articles for an issue need to reach CEAI at least 3 weeks prior to the end of the month of the ViewPoint 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(s) is to be sent along with the article. For details of formatting please refer to "*Format for Articles for CEAI Viewpoint*" on CEAI's website, under '*Publications*'.

We urge all Professionals to use CEAI's ViewPoint to showcase the capabilities and achievements of the Engineers in India plus educate and guide new engineers.

The theme for the December 2024 issue is “Recycling & Reuse of Building Materials in Construction Industry”.

The articles for an issue need to reach CEAI at least 3 weeks prior to the end of the month of the ViewPoint 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(s) is to be sent along with the article. For details of formatting please refer to “*Format for Articles for CEAI Viewpoint*” on CEAI’s website, under ‘*Publications*’.

Advertisement in ViewPoint

ViewPoint is circulated to all CEAI Members, FIDIC, Ministries of the Government of India, Public and 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. Thus, all stakeholders partnering development and progress are its readers.

Catch the Customers Eye

Get Wide Exposure

Improve Visibility



VIEWPOINT

Support from CEAI members and stakeholders are sought for increasing the number of advertisements so that ViewPoint gains in its stature as a unique Technical Publication for the fraternity and the public at large to spread information about how Consulting Engineers are helping society for improving the quality of life and doing so sustainably. The rates for advertisements in **VIEWPOINT** with effect from 1st January 2023 are given below:

Item	Rate Per issue* (Rs)	Discounted rate at 10% for 2 consecutive issues* (Rs)	Discounted rate at 20% for 4 consecutive issues* (Rs)
Back Cover	25,000.00	45,000.00	80,000.00
Inside Front Cover	18,000.00	32,400.00	57,600.00
Inside Back Cover	18,000.00	32,400.00	57,600.00
Full Page (Colour)	12,000.00	21,600.00	38,400.00
Full Page (Colour), if a specific page position is required.	14,000.00	25,200.00	44,800.00
Full Page (B&W) (such advertisements will be taken up for printing only when there are 4 or multiple of 4 advertisements for an issue)	8,000.00	14,400.00	25,600.00

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

FIDIC PUBLICATIONS

Please contact CEAI Secretariat for availability and price.

1	FIDIC Contracts Guide (2 nd Ed. 2022)
3	EPC Turnkey Contract 2 nd Ed 2017 Silver Book Reprinted 2022 with amendments
4	Construction Contract 2 nd Ed 2017 Red Book, Reprinted 2022 with amendments
5	Plant & Design Build Contract 2 nd Ed 2017 Yellow Book, Reprinted 2022 with amendments
6	The Short Form of Contract (2 nd Edition, 2021).
8	Conditions of Contract for EPC Turnkey Projects (First Edition, 1999).
9	EPC/Turnkey Contract 2 nd Ed (2017 Silver Book)
10	Conditions of Contract for Construction (First Ed. 1999).
12	Construction Contract 2 nd Ed (2017 Red Book).
13	Conditions of Contract for Plant & Design-Build (First Ed, 1999).
14	Plant and design-build contract 2 nd Ed (2017 Yellow book)
15	Dredgers Contract 2 nd Ed (2016 Blue-Green Book).
16	Client/Consultant Model Services Agreement 5 th Ed (2017 White Book)
18	GUIDE to Conditions of Contract for Design, Build and Operate Projects (2008 GOLD BOOK) 1 st Ed 2011
19	Conditions of Contract for Works of Civil Engineering Construction (4 th Ed. 1987 Reprinted 2011)
	Conditions of Contract for Design-Build and Turnkey First Edition 1995 Reprinted 2011.
21	Conditions of Contract for Underground works (2019 Emerald Book)


CONSULTING ENGINEERS ASSOCIATION OF INDIA
WE OFFER
FIDIC TRAINING COURSES

- **Module I : Practical Use of FIDIC Conditions of Contract**
- **Module II : Management of Claims and Disputes Resolution**
- **Module IV : Contract Management and Administration**

The investment in infrastructure is growing and would continue to grow at an accelerated rate in the near and distant future across the Globe and especially in developing economy like India. The multilateral financial institutions are pouring in funds and want to be a part of the India growth story. These MDBs invariably use the FIDIC Conditions of Contract which are acclaimed as the Gold Standard of Conditions of Contract Globally.

The FIDIC Conditions of Contract are being used the world over where multi-lateral development banks provide the funding. And in large complex Government projects.

With a number of large and complex projects BOTH on-going and planned in the country, this training course will bring the participant the necessary detailed knowledge and insights as to the claim management and dispute resolution provisions under the FIDIC Conditions of Contract.

It covers the identification of project risks, their allocation, and the various causes of claim which can emerge over a construction contract and the way FIDIC addresses those. It details the way to handle claims - preparation, submission, assessment, determination under FIDIC Contracts, and how disputes are prevented or otherwise resolved.

Certificate

After completion of the training a Certificate will be distributed to the participants.

The comprehensive program on FIDIC Contracts led by accredited trainers

Contact for further query

+91 9871166102
ceai.ceai@gmail.com

Consulting Engineers Association of India
CEAI Centre, OCF Plot No.2, Pocket 9
Sector B, Vasant Kunj, New Delhi
www.ceai.org.in

Consulting Engineers Association of India

CEAI Centre, OCF Plot No 2, Pocket 9, Sector B, Vasant Kunj, New Delhi 110070
Phone: +91 9871166102 | Email: ceai.ceai@gmail.com, info@ceai.org.in | web: www.ceai.org.in