



Creating Value Ethically for Engineers

FROM THE PRESIDENT'S DESK



IN THIS

ISSUE

Dear Members and Friends,

The weather has been formidable at times, however, CEAI has been functioning right through all the vagaries of the monsoon.

The weekend lectures on Construction Law have been held punctually and the participants interaction has grown stronger.

The webinar on design of flow transitions for hydraulic structures was very well attended. Prof. Mazumder explained the principles very clearly.

The two training sessions on soft skill development had enthusiastic participation.

Talking of the trials presented by the monsoons reminds me of the trials that the seniors and the physically challenged face day in and day out. The inclement weather makes it all the more difficult for them. The same is the case in areas where there is snowfall. In spite of the codes and standards being there for a long time their adoption and implementation needs much to be done. There is really no urban area where there is uniformity in the planning and design of pavements and street furniture. As engineers it behoves that we implement the requirements in letter and spirit to make the country a better place to live.

A Workshop on Quality of DPRs of Highway Projects is being planned tentatively in the last week of August 2023.

**CONSTRUCTION LAW
COURSE**

**WEBINAR ON SUB-CRITICAL
FLOW TRANSITION DESIGN
IN HYDRAULIC STRUCTURES**

**SOFT SKILL TRAINING ON
"BE A CONSTRUCTIVE
LEADER"**

**FIDIC TRAINING COURSE ON
'PRACTICAL USE OF FIDIC
CONDITIONS OF CONTRACT**

FROM DIRECTOR'S DESK

VIEWPOINT

Global Services Export Conclave on Engineering and Environmental Services is being planned along with SEPC on 15th September at New Delhi.

CEAI has organised a FIDC training course in September 2023 for the benefit of those dealing with FIDIC contracts. The course will be an opportunity to imbibe and also clarify any grey areas.

Warm regards,



R S Sharma

CONSTRUCTION LAW COURSE

The “**Construction Law Course**” organized by the Western Region Centre which commenced on the 10th June 2023 in Mumbai has been conducted on all weekends despite the monsoons. It will get over in another two weeks. The participants have appreciated the presentations and talks by the faculty who are all practicing professionals. The interactions during and after the lecture sessions often get prolonged.

WEBINAR ON “SUB-CRITICAL FLOW TRANSITION DESIGN IN HYDRAULIC STRUCTURES”



The fourth webinar organised by the YP Forum of CEAI was held on 19th July 2023 on the topic “**Sub-Critical Flow Transition Design in Hydraulic Structures**” by Prof. S K Mazumder who has 62 years of teaching, research, design & consultancy experience in hydraulics & water resources engineering and published 216 technical papers in reputed journals and conferences in India and abroad.

Transitions are provided in regulating and cross drainage structures such as canal falls, aqueducts, intakes etc. where the normal waterway is often restricted for economy. Different types of head loss in inlet and outlet transitions, afflux and scour etc. were explained with figures. Classification and types of transitions were illustrated with specific energy diagram. Historical evolution of transition including Hinds transition- popular in India, USA and Europe- are not only costly but are based on certain hypothesis which are not verified. Several hydraulic parameters developed for fluming (b/B), head loss coefficients (C_i & C_o), hydraulic efficiencies (η_i & η_o), Coriolis coefficients (α_1 and α_2), standard deviation of bed shear distribution (σ), flow stability(S), used for comparing performances of conventional and newly developed transitions, were narrated with formulae and figures.

Based on a large number of experiments, it was found that the Jaeger type inlet transition with 2:1 average side splay provided excellent results with 90% hydraulic efficiency. As regards outlet transition (or expansion), existing design procedure should be replaced with straight expansion provided with boundary-layer flow control devices. One such method, namely, use of a symmetric pair of short triangular vanes at entry to expansion were highly effective in improving performance

and eliminating flow separation. Length, height, spacing and inclination of the vanes for different flows for achieving best performance were illustrated with figures and photographs.

Another excellent device of flow control in expansion is to provide adverse bed slope to the expansion floor ($\beta_{opt.}$) - value of which can be determined from equations/figures derived from momentum and continuity principles. Overall economy achieved by adopting flow control devices in an expansion were shown with figures/photographs. Performance of the conventional and the innovative/economic design, developed by Prof. Mazumder and co-workers were compared to establish superiority and economy of the new design. For more information on other classes of transitions, speaker recommended his book on "*Flow Transition design in Hydraulic Structures*" published in 2020 by CRC press, Taylor & Francis group, London and New York.

YouTube link: https://www.youtube.com/watch?v=W6MW6u69C_s

SOFT SKILL TRAINING ON 'BE A CONSTRUCTIVE LEADER'



CEAI Academy conducted Soft Skill Trainings for young engineers on 26th and 31st July 2023 at the CEAI Centre, New Delhi on how to **"Be A Constructive Leader."**

It is extremely important in consulting industry to develop skills which enable an engineer to work effectively and gel with others by having a positive influence on Clients, Co-workers and people around. Highly-developed presentation skills, networking abilities, and etiquette awareness can help win new clients and gain more work from existing clients. Grooming young and middle level engineers by honing their abilities to resolve conflicts, solve problems, and provide excellent customer service can lead to stronger relationships with colleagues, vendors, and other professional contacts. Ultimately, strong soft skills can help engineers to gain confidence, an invaluable trait in the consulting business.

The topics covered were Leadership Quotient, Right Communication, Emotional Quotient, Motivational Quotient, Problem solving, etc.

The faculty for the training was Ms. Vijayshri Attri who has experience of 16 years in Learning & Development. She is a Professional Skills Training Expert and her passionate and result oriented approach was very good.



FIDIC TRAINING COURSE ON PRACTICAL USE OF CONDITIONS OF CONTRACTS

CEAI's next FIDIC Training Course on '*Practical Use of Conditions of Contracts*' will be held on 4th & 5th September 2023 at Hotel Royal Plaza, 19 Ashoka Road, New Delhi.



Mr. Taner Dedezade, an international expert and a FIDIC accredited trainer on FIDIC conditions of contract will be the faculty. He is a construction barrister, dispute resolver, published author and world-renowned speaker. Mr. Taner has conducted many training programmes on FIDIC conditions of contract all over the World. As an international construction barrister, Mr. Taner specialises in the resolution and avoidance of disputes arising out of international construction and engineering projects, particularly under the FIDIC forms. As a dispute resolver,

Mr. Taner is currently acting as an ICC arbitrator and has been appointed by CLARB as arbitrator in relation to four commercial disputes.

Day One

0900-0945 : Session 1: Introduction to FIDIC

0945-1030 : Session 2 : Notices and Claims

1030-1045 : Tea/Coffee Break

1045-1130 : Session 3 : Claims for Delay

1130-1300 : Workshop 1

1300-1400 : Lunch Break

1400-1445 : Session 4 : Critical Path Analysis

1445-1530 : Session 5: Delay problem areas
(concurrency, acceleration
and time-at-large)

1530-1545 : Tea/Coffee Break

1545-1630 : Session 6 : Typical Claim Clauses

1630-1730 : Workshop 2

Day Two

0900-0945 : Session 7: Variations

0945-1030 : Session 8 : Prolongation, disruption
and global claims

1030-1045 : Tea/Coffee Break

1045-1130 : Session 9 : Delay damages, defects
and bonds

1130-1300 : Workshop 3:

1300-1400 : Lunch Break

1400-1445 : Session 10: Suspension and
Termination

1445-1530 : Session 11: DAB

1530-1545 : Tea/Coffee Break

1545-1630 : Session 12: What's New in FIDIC 2017

1630-1730 : Workshop 4 : Valedictory Sessions &
distribution of Certificate

COURSE FEE

- Member - Rs. 30,000/- + GST 18% | Non Member - Rs. 32,000/- + GST 18%
- It is a Non Residential Course
- Discount of 10% for more than 2 members
- Discount of 20% for more than 5 members
- FIDIC Certificate will be issued by CEAI to those who complete two day training

PAYMENT

CEAI Bank Details for Bank Transfer

Account Name : Consulting Engineers Association of India |
 Account No : 028394600000592 | Bank Name : YES BANK LTD |
 Account type : Saving | IFSC CODE : YESB0000283 |
 Branch Address : Ground Floor, Plot No 2, OCF, Sector B,
 Pocket 11, Vasant Kunj, New Delhi 110070

CEAI UPI details

Name - Consulting Engineers Association of India
 UPI Handle - 9871166102@paytm
 Pay me on Paytm - <https://p.paytm.me/xCTH/gqsm55kb>

Scan the QR Code



FROM THE DIRECTOR'S DESK

During the month of July 2023, the Committees that met to conduct their business were:

- FIDIC Committee
- CEAI Foundation
- Seminars & Events Committee
- Ethics & Quality Committee Membership Committee
- Finance Committee
- Organising Committee of International Seminar

CEAI Young Professional Forum successfully conducted its webinar on “*Critical Flow Transition Design in Hydraulic Structures*” on 19th July 2023.

CEAI Academy has very successfully organised the Soft Skill programs on “*Be A Constructive Leader*”.

Reminders for subscription for the Financial Year 2023-2024 have been circulated to members. Members, who have not yet paid their subscription, are requested to pay their subscription at the earliest.

VIEWPOINT

The theme for CEAI's quarterly magazine “*ViewPoint*”, September 2023 issue is “*Consultancy for Rural Area Development*”. Mr. Girish Mishra is the Guest Editor for the issue.

It is the heartland of a country that keeps it going and growing; it is an area that is essential for life to survive. India has put a lot of emphasis on the upliftment of the Rural areas – to provide a better quality of life by providing better houses, sanitation, schools, water, electricity, road and rail connections, small scale manufacturing facilities, etc. The Government of India has announced a number of schemes for the development of the Rural areas. Consulting Engineers are playing a key role in all these schemes and helping the country rise. Agricultural Engineers are also doing their

share in helping to grow better crops, improving the yield and making farming a less tedious task. Digitalisation and IoT with their ubiquitousness have gone a long way in demolishing the rural and urban divide.

Papers are invited regarding the latest or projected systems, methods, technologies, etc. regarding different aspects encompassing Architectural, Civil, Geotechnical, Structural, Electrical, Instrumentation & Control, Communications i/c Information Technology, Mechanical engineering as well as Agricultural Engineering systems to cover all aspects for development of Rural areas.

Professionals are invited to share case studies of how they addressed the challenges faced, practical issues experienced and the solutions to those, etc. Photographs, charts, diagrams, drawings, etc. would benefit readers for better appreciation of the issues encountered and the manner in which they were addressed.

The theme for the other issues for the term 2023-2024 are:

1	December 2023 – Consultancy in the Industrial Sector
2	March 2024 – Consultancy for Start-Up and MSME
3	June 2024 – Affordable Housing.
4	September 2024 – Energy Transition
5	December 2024 – 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 & 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.

**Back Cover and Inside Back Cover booked till September 2023

***Inside Front Cover booked till June 2024

**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

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