



Consulting Engineers Association of India NEWSLETTER

APRIL 2021

www.ceai.org.in

FROM THE

PRESIDENT'S DESK



IN THIS

ISSUE

Dear Friends,

We trust that you and all your family are safe and well during these pandemic times. The uncertainty in these times can take a toll of our mental health and many may experience increased stress and anxiety as a reaction to the unprecedented second wave of Covid19.

CEAI regrets to inform you of the sad demise of Mr. Govind Raj, a team member of CEAI Secretariat, on 27th April 2021, who had been there for a long time. He will be remembered for his selfless working for the benefit of the Association. CEAI is providing all possible help and support to late Govind's family.

During the month of April, we had conducted a workshop on 'ISO Quality Certification for Consulting Engineers' under aegis of Quality and Ethics Committee of CEAI. The workshop was conducted by Mr. Somenath Ghosh, GC Member, and was well attended by over 100 professionals.

We also have number of webinars and other training programs have been lined up for the coming months. So please keep in touch with us and visit the CEAI website for updated information.

In the meantime, please stay safe and healthy, and thank you again for all your support.

Sincerely

Warm regards,

Dr. Ajay Pradhan

**WORKSHOP ON 'ISO QUALITY
CERTIFICATION FOR CONSULTING
ENGINEERING FIRMS'**

**WEBINAR ON 'RAISING THE BAR BY
WOMEN PROFESSIONALS - 3 CS OF
CAREER, CHALLENGES &
COMMITMENT'**

**WEBINAR ON "FIDIC CONTRACTS –
NEED OF THE HOUR"**

MEMBER NEWS

VIEW POINT

WORKSHOP ON 'ISO QUALITY CERTIFICATION FOR CONSULTING ENGINEERING FIRMS'

As engineering projects are becoming larger and more complex, multi-disciplinary, engaging multi-national teams spread across geographies, it is imperative that Consulting Firms have well-defined processes, systems and procedures that are well understood in the organisation. ISO 9001 is an international standard that set out the requirements of quality management systems that can be used by organisations to be more efficient, manage risks, improve customer satisfaction, effectively control operations and costs, and continual improvement in all areas of operation.

The online workshop on ***"ISO Quality Certification for Consulting Engineering Firms"*** held on April 15, 2021, was positioned as an introductory treatment of the subject for Consulting Engineering firms, particularly the Members of CEAI. Quality is a perceptual, conditional and a somewhat subjective attribute of a product or service. Quality is a key competency through which firms can derive competitive advantage. Achieving quality is fundamental in business and in propelling the business into new heights.

ISO 9001 is of fundamental importance for effective quality management. For external stakeholders to believe in the authenticity of the business, quality management systems are crucial, and proof of these systems being in place are a sign to customers that the consulting firm is trustworthy and worth doing business with.

The workshop broadly covered the following topics:

- * What is a Quality Management System?
- * Why do Consulting Engineering Firms require QMS?
- * How is QMS implemented?
- * When should a Firm get certified for QMS?
- * Feedback from CEAI members based on QMS Survey undertaken in the recent past

The workshop was held under the aegis of the Ethics & Quality Committee of CEAI *"To enumerate the various actions required to be undertaken to sensitise members and promote awareness about the need to improve the quality of services and provide error free deliverables, thus reducing Customer complaintsCREATE A CULTURE OF QUALITY."*

There were interactive elements for the participants through quizzes for the over 150 attendees. The training was conducted by Mr. Somenath Ghosh, Member CEAI.



WEBINAR ON 'RAISING THE BAR BY WOMEN PROFESSIONALS - 3 CS OF CAREER, CHALLENGES & COMMITMENT'

The 'Future Leaders forum' (FLF) in CEAI, formerly the 'Young Professionals Forum (YPF)', was formed with the intention of providing Young Professionals or Future leaders with an opportunity to participate in CEAI and FIDIC activities. In keeping with the aims & objectives of CEAI, the *Future Leaders Forum* is encouraged to organise webinars in topics of interest to the young engineering fraternity. As a first in the webinar series, the *Future Leaders Forum* endeavours to highlight the importance of and need to promote next generation women leaders in the Consultancy Engineering fraternity. The webinar on “*Raising the Bar by Women Professionals - 3 Cs of Career, Challenges & Commitment*” will be held on 14th May 2021 starting at 3:00 p.m.

The Eminent women speakers from Academia, FIDIC and Consultancy are:

- * Prof. Geetam Tiwari, IIT Delhi
- * Dr. Michele Kruger, FIDIC
- * Dr. Elisa Maceratini, FIDIC
- * Ms. Harshita Jain- Consulting Engineers Group Ltd.
- * Ms. Parmita Ganguly -Tata Consulting Engineers Limited

The link for registration is

https://us02web.zoom.us/webinar/register/WN_0zg22SmWRw-714mKh2qlCw

WEBINAR ON “FIDIC CONTRACTS – NEED OF THE HOUR”

CEAI is organising a webinar highlighting the need to adopt FIDIC Conditions of Contract for all types of works, including domestic funded programs, to emphasise the fact that FIDIC conditions of Contract may not be limited to only multilateral development bank funded projects. The webinar would communicate the ease of operation of contracts under the FIDIC environment and highlight the advantages of adopting FIDIC conditions including fully operational DAB/ DAAB mechanisms. It would spread more awareness among Government Agencies, Professionals and Employers about FIDIC contracts and attract better participation in FIDIC Training programmes. It could also result in individuals aspiring to become FIDIC Accredited Adjudicators and/ or FIDIC Accredited Trainers.

The eminent speakers are:

- * Mr. Anthony H. Barry, President-Elect, FIDIC
- * Mr. Ajit Kumar Mishra, Chief General Manager, DFCCIL
- * Mr. M Kishore Kumar, Director, Aarvee Associates
- * Mr. Somnath Roy, Sr. Vice President- Contracts, JMC Projects (India) Ltd.

Dr Dhaval Parikh, Vice President-CEAI will be the moderator of the webinar.

The webinar on “*FIDIC Contracts – Need of the Hour*” will be held on 28th May 2021, starting at 3:00 pm (IST).

The link for registration is

https://us02web.zoom.us/webinar/register/WN_edrSUIH_Ro2uo0kkgwMSiw

MEMBER NEWS

A solution to reduce the medical Oxygen crisis

Tata Consulting Engineers Limited (TCE) in collaboration with the Indian Institute of Technology, Bombay (IITB) and Spantech Engineers have announced that they have successfully carried out a pilot plant study to convert nitrogen generation plants into ones for oxygen by replacing the molecular filters in the unit and few other minor refinements. This development would help address the current oxygen crisis for medical emergencies that have occurred on account of the pandemic.

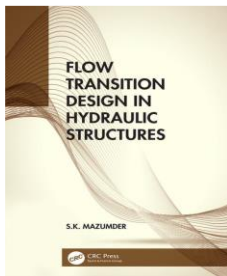
With nitrogen plants in use at a large number of industrial units all over the country it would be a fast and easily doable solution that would ease the situation, since just about 3-4 days are required to convert an existing nitrogen plant to one for generating oxygen as against setting up a new plant which takes over 45 days. Besides it would cost about 10-15% of setting up a new oxygen plant.

Indian Institute of Technology, Bombay has validated the proof of the concept; now the technology needs to be scaled up. An MoU was signed between IITB, TCE and Spantech Engineers to finalise a Standard Operating Procedure (SOP) to scale up the technology.

Mr. Amit Sharma, Managing Director, TCE said that the technology is proven and has been in use since the 1970s. For more details please refer to the link below.

<https://www.tce.co.in/wp-content/uploads/2021/04/Emergency-Oxygen-IIT-Bombay-TCE-Spantech-v1.pdf>.

Prof. S K Mazumder received the ISH Journal Reviewer Award from the Indian Society for Hydraulics



Flow Transition Design in Hydraulic Structures

S. K. Mazumder

Independent Professional, India

Transitions are provided in hydraulic structures for economy and efficiency. This book covers all types of flow transitions: sub-critical to sub-critical, sub-critical to super critical, super-critical to sub-critical with hydraulic jump, and super-critical to super-critical

transitions. It begins with an introduction followed by characteristics of flow in different types of transitions and procedures for hydraulic design of transitions in different structures. Different types of appurtenances used to control flow separation and ensure uniform flow at exit of transition and diffusers are included. Contains examples of hydraulic design of a few typical hydraulic structures.



OBITUARY

CEAI regrets to convey the sad demise of Mr Govind Raj on 27th April 2021. He was a valued member of the CEAI Secretariat with which he had been associated for the last 25 years. CEAI has lost an honest, hardworking and efficient member of its staff. He will be remembered for his sincere and prompt fulfilment of his duties for the benefit of the Association. CEAI records and conveys its deepest condolences to Mr. Govind Raj's family members and prays that his soul may rest in peace.



VIEW POINT

The theme for the June 2021 issue is **“Risk and Resilience”**.

Consulting Engineers are requested to share their experiences – the trials and tribulations, they encountered in their professional carrier. Articles are invited on all aspects from CEAI Members and various stakeholders on the subject considering their experience.

Authors are urged to 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 readers for better appreciation of the issues encountered and the manner in which they were addressed.

The themes for the ViewPoint issues for 2021 and 2022 are given below.

Sl. No.	Theme	ViewPoint issue
1	Risk and Resilience (to inter alia cover Climate Change, Natural and Man-made Disasters, Integrated Engineering, Risks in Engineering, etc. How they need to be assessed, addressed and mitigated)	June 2021
2	Flood Management in Built Environment	September 2021
3	Changing Technologies for Consulting Engineering (to cover Business as well as Technical)	December 2021
4	Becoming <i>Atmanirbhar</i> – Concept to Reality	March 2022
5	Contract Management	June 2022
6	Tall Buildings in India (to cover all aspects conceptualisation to end of design life)	September 2022
7	Technology/ Engineering for Sustainability and Circular Economy	December 2022

The articles for an issue need to reach CEAI office at least 3 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(s) is to be sent along with the article.

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.

Catch the Customers Eye

Get Wide Exposure

Improve 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.*

***Inside Front & Back Covers booked till June 2021 & Sept 21, respectively*

Consulting Engineers Association of India

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