



Consulting Engineers Association of India NEWSLETTER

SEPTEMBER 2020

www.ceai.org.in

FROM THE

PRESIDENT'S DESK



IN THIS

ISSUE

Dear Friends,

The Diamond Jubilee celebrations of CEAI took off with the holding of the first planned Webinar on **SAFETY IN ENGINEERING** and those of you, who could attend the event, must have enjoyed the deliberations on this theme of great significance for today's world. It is our request to those, who had to miss the live presentation, to catch up with the deliberations on YouTube link.

The verve and commitment reflected, is a result of meticulous planning, by the Diamond Jubilee Committee and the Western Region Team, that planned and implemented it.

It is our request to all of you, that you must make it a point to attend the various events being planned, and make advance noting in your calendar.

The first election to be held on-line is round the corner, and we implore on you to participate in this election, for putting in charge a new GC, that will carry forward the work done by the present GC, in securing wide recognition for the Engineering fraternity and their contribution to the society.

CEAI has been able to secure the rightful dues of the Consultants, by engaging with the authorities on continuing basis, and now trying to reverse the uncalled-for penal measures inflicted in some instances, without proper analysis and investigation.

The festival season across the country is here by the calendar, but the continuing pandemic will require all of us to heed the warnings from the authorities, in the interest of the country and humanity.

Kindly stay safe and stay healthy

Warm regards,

Amitabha Ghoshal

CEAI DIAMOND JUBILEE CELEBRATION

WEBINAR ON SAFETY IN ENGINEERING

ADB TRAINING PROGRAM FOR OFFICIALS
OF NORTH EAST STATES

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HAMMER

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FIDIC ANNUAL CONFERENCE 2020

VIEW POINT

CEAI DIAMOND JUBILEE CELEBRATION

CEAI is celebrating 60 years of Service to Consulting Engineers. In keeping with the Aims & Objectives, to improve the level of engineering in India and also of Indian Engineers at large, CEAI is organizing a series of Webinars as part of the Diamond Jubilee Celebrations. The Webinars planned so far are indicated hereunder. Others, that will be added, will be intimated on the CEAI website and also via other media avenues.

Sl. No	Topic	Day, Date	Start Time
1	Safety in Engineering	Tuesday, 29-09-2020	10:30 am
2	Emerging Technologies in Infrastructure	Friday, 16-10-2020	3:30 pm
3	Operation & Maintenance of Assets	Thursday, 19-11-2020	3:30 pm
4	Digitalization in Engineering	Friday, 18-12-2020	3:30 pm

WEBINAR ON *"SAFETY IN ENGINEERING"*

As a part of the Diamond Jubilee Celebrations the first webinar on *"Safety In Engineering"* took off with a flying start on 29th September 2020 from 10:30 am to 13:45 pm.

The thought for the topic was driven by the widespread cases reported in the media of accidents and failures at construction sites, chemical and industrial plants, roads, railways, metro lines, etc. The regime thrust upon by the pandemic was an added imperative. CEAI's Western Region Centre (CEAI-WRC) therefore organised the webinar with the support from Centre for Workplace Safety and Health, Mysuru; Larsen & Toubro; IIT Madras, and others. The event was meticulously planned and executed by Mr. A P Mull, Past President CEAI, Dr. Harshavardhan Subbarao, Chairman CEAI-WRC and Mr. Jeffrey Nambiar, Hon. Secretary and Treasurer, CEAI-WRC

Mr. Amitabha Ghoshal, President CEAI welcomed everyone and made the opening remarks. Thereafter Dr. Harshavardhan Subbarao took over as moderator of the webinar.

The speakers and their topics were:

Dr. Nikhil Bugalia, Visiting Professor, Building Technology and Construction Management Group, Department of Civil Engineering, Indian Institute of Technology Madras who spoke on *"Complexity, Safety & Leadership"*

Mr. M. Nachiappan, DGM (EHS), Building & Factories IC, L&T Construction who dealt on *"Digitalisation in Safety"*.

Dr. N Krishnamurthy, Founding Director, Centre for Workplace Safety and Health, Mysuru; Safety Consultant and Trainer, Singapore, expounded on the *"Status and Future of Workplace Safety in India"*.

To provide a wider spectrum of expertise, three Panellists shared their knowledge.

Mr. Sanjay Pant, Head Civil Engineering, Bureau of Indian Standards, who is always very supportive of sharing knowledge, had agreed to join but was not able to do so at the last

moment and hence had requested his colleague Mr. Abhishek Pal, Scientist 'C', Civil Engineering, BIS, to be on the panel. He listed the number of BIS codes and standards on safety. He conveyed the personal request of Mr Pant to Engineers to contribute constructively and effectively in the revision of the IS codes and standards and also help in evolving new ones.

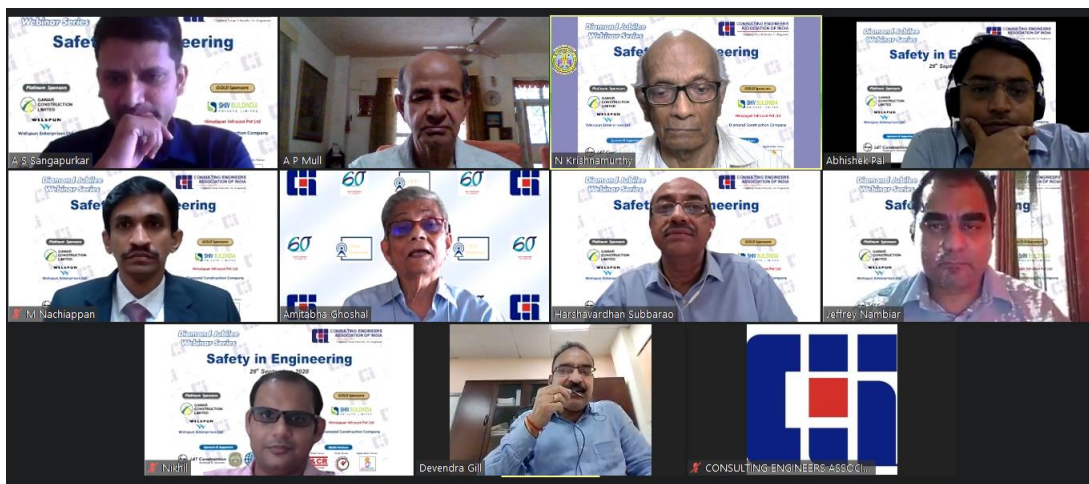
Mr. Devendra Gill, Senior Additional General Manager and head of Safety at the Delhi Metro Rail Corporation Ltd. spoke about the Safety practices and training of workers, on which Delhi Metro is setting standards for other Metros in India to adopt.

Prof. Abhijeet Sangapurkar from NICMAR (National Institute of Construction Management and Research) explained the synergy between theory and practice for safety in construction.

Dr. Harshavardhan Subbarao performed as the link between each speaker and panellist and briefly made his own contributions to the discussions.

Mr. Amitabha Ghoshal thanked all the speakers and panellists for their informative and though provoking inputs which have helped to focus on a very significant aspect of our work. He also thanked all the attendees for their interaction through the Q&A and Chat boxes.

The webinar received excellent response and extremely good feedback. There were requests for more details starting with identification of Risks. Taking off from there, CEAI will plan samed in the next few months.



Meida Reports are given in the below links:

<https://dwarkaparichay.com/blog/consulting-engineers-webinar-on-safety-in-engineering-on-tuesday-29th-september-2020/>

internationalnewsandviews.com/engineers-urged-to-adopt-technology-as-per-the-consumer-and-business-needs/

ADB TRAINING PROGRAMME FOR OFFICIALS OF NORTH EAST STATES

Topic: DPR PREPARATION AND PROJECT READINESS

ADB appointed CEAI to conduct a training program on how to prepare DPR and undertake Financial Evaluation of Road and Highway Projects for personnel of North East States. Initially this programme was to be conducted as a physical event in Kolkata but due to pandemic the training was conducted online on 7th and 8th September 2020.

The faculty from Kolkata was coordinated by Mr. Amitabha Ghoshal, President CEAI and comprised:

- Mr. Samiran Sen – Consultant and Treasurer of CEAI, E & NE Zone
- Mr. Kalyan Ghosh - Consultant
- Mr. Sudip Dutta –Partner, PwC

Mr. Samiran Sen acted as the Moderator.

Mr. Sen conducted 2 sessions – first on Preparation of Feasibility Report and second on Procurement.

Mr. Ghosh covered preparation of Detailed Project Report including Surveys and Investigations, Land Acquisition, Designs and Cost Estimation.

Mr. Sudip Dutta explained aspects on Financing of Projects and Financial Evaluation.

Each presentation was followed by a quiz of 5 questions, compiled by ADB team.

Between 50-60 persons from NE States participated. CEAI will endeavour to organise more such programmes for ADB.

REPORT ON WEBINAR ON “WATER HAMMER”

CEAI Pune City Chapter organised a Webinar on “*Water Hammer*” jointly with Indian Water Works Association (IWWA), Pune; supported by Tata Consulting Engineers Limited, on 12th September 2020. More than 300 persons registered for the event and on the given day over 70 recorded their attendance on Zoom. IWWA Pune had also provided the event link to Facebook (<https://www.facebook.com/124554765812783/live/>)

Dr. Parag Sadgir, IWWA and Professor College of Engineering Pune (COEP) was the Moderator and introduced Mr. S B Bhujbal, Chairman IWWA Pune. Mr. Bhujbal spoke of the activities of IWWA Pune and then requested Mr. Vijay Nadkar, In-Charge CEAI Pune City Chapter to introduce Mr. Amitabha Ghoshal, President CEAI. Mr. Amitabha Ghosal explained the role of CEAI. He added that IWWA, CEAI and other likeminded institutions should bring the engineering fraternity together to achieve the rightful place of Engineers in the society. He conveyed the commitment of CEAI and its relentless endeavour towards the same. He thanked the organisers of the event for a very important technical contribution.

Engineers from Tata Consulting Engineers Limited, made excellent presentations to explain the Water Hammer phenomena in different pipeline systems.

Mr. P L N Rao, Group Sector Head Hydro Power, gave an overview -regarding water hammer: “*General Appraisal in Water Supply, Thermal & Hydro Power Projects*”. He emphasised the importance of the Water Hammer phenomena in Water Conductor Systems and informed about project worldwide which were severely impacted due to the detrimental

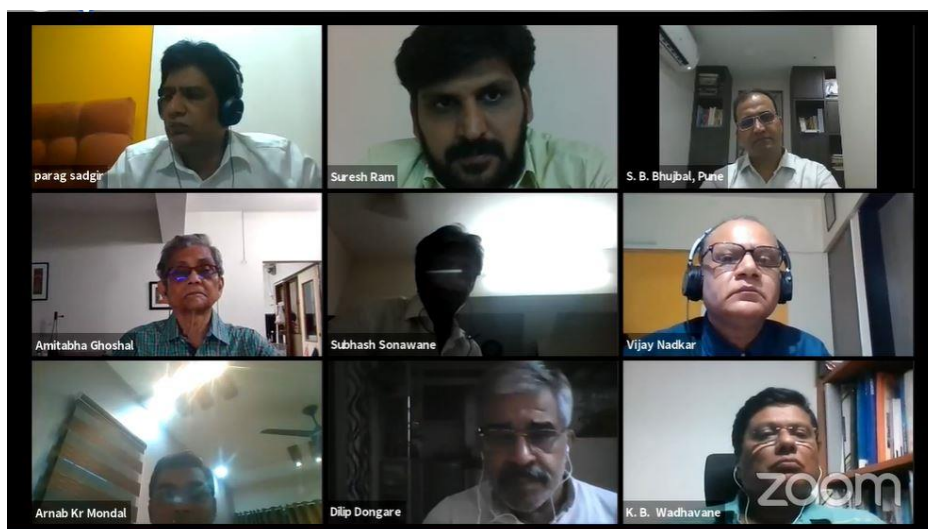
effects of the phenomena. He also compared the current design approach which plans/ intends to let water hammer occur as against to yesteryear's design approach of preventing it. He briefly explained the key aspects to be focussed while carrying out Hydraulic Transient modelling. He presented the major causes of water hammer and the protection measures that have been successfully adopted depending upon the type of water conductor system, suitability, reliability, cost and construction feasibility.

Mr. C. Suresh Ram, Senior Manager presented some insights on ***“Water Hammer in Condenser Cooling Water Systems of Thermal & Nuclear Power Plants”***. He explained the importance of Condenser Cooling Water Systems (CCW) in Thermal/ Nuclear power plants and how water hammer can affect these systems and in turn the Plant's power generation efficiency. He presented the critical operating conditions which causes water hammer in CCW systems and simple, cost effective protection measures. He also presented development of numerical modelling of a CCW system, its validation and prediction of results.

Mr. Arnab Kr. Mondal, Assistant General Manager explained ***“Water Hammer in Water Supply Projects”***. He explained the causes of Water Hammer phenomena in Water Supply projects and gave a few insights on column separation/ cavitation. He explained the various types of surge protection measures adopted to protect the long pipelines from water hammer. He also presented a few case studies explaining the type of surge protection measures suggested based on analysis/ guidelines and their effective functioning in protecting the system.

Mr. Pate, Honorary Secretary, IWWA Pune gave the Vote of Thanks and Dr. Sadgir, Co-ordinator then announced the conclusion of the event.

Screen shots of the Webinar on Water Hammer, 12th September 2020 are given below.



CEAI GOVERNING COUNCIL ELECTION

The pandemic has not receded and we are compelled to hold our biennial election process this year through digital process. The notice inviting nominations will be circulated to all eligible members on 15th October 2020.

As per the Rules of the Association, membership subscription shall not be in arrears and the member shall have no outstanding dues to CEAI, shall be eligible to participate in the Governing Council elections. In view of this, members are requested to clear their dues, if any, at the earliest for participation in the elections.

CEAI INTERVENTION

MEDIA REPORT OF PRESS RELEASE ISSUED BY MORTH THROUGH PRESS INFORMATION BUREAU

NHAI Accepts Suggestions from Industry Body CEAI to Improve Ease of Doing Business in National Highways sector

Posted On: 29 SEP 2020 6:35PM by PIB Delhi

In order to further improve the ease of doing business, NHAI has agreed to most of the suggestions made by industry body, the Consulting Engineers Association of India (CEAI).

NHAI reports that CEAI had submitted suggestions pertaining to areas that include Omnibus Bank Guarantee, Performance Parameters of Consultants, Approval of DPR, Value Engineering, Technical Capacity Provisions, Evaluation of Bids etc. After having detailed deliberation with the industry body, NHAI agreed with most of the suggestions made by them. Suggestions which were outside the purview of NHAI have been sent to the related authorities for consideration. Further, NHAI assured the body that all good suggestions facilitating smooth working with the Consultants shall be positively considered in the future as well.

Some of the key suggestions accepted by NHAI are highlighted as below:

- a. Suggestions regarding Omnibus Bank Guarantee system has been accepted by NHAI and guidelines have been issued on the matter.
- b. Suggestions regarding use of innovative technology / material has been accepted. NHAI has asked the Consultants to propose new technologies while preparing DPRs and wasteful expenditure items should be avoided. NHAI also assured that the approval process of various stages of DPR shall be expedited.
- c. NHAI has reiterated its commitment to ensure timely payments to the Consultants.
- d. Under Technical Capacity Provisions, cap on the number of projects awarded to a Consultant will be linked to the Consultant's performance and its rating on the Vendor Performance Evaluation System.

NHAI has further reported that it is committed to improve ease of doing business and facilitate better working relationship with all its stakeholders.

Reports are also available in the following links

<https://pib.gov.in/PressReleaseIframePage.aspx?PRID=1660092>

<https://www.outlookindia.com/newscroll/nhai-agrees-with-industry-suggestions-to-improve-national-highways/1945398>

<https://in.news.yahoo.com/nhai-agrees-industry-suggestions-improve-144256029.html>

<http://www.babushahi.com/full-news.php?id=108977&headline=NHAI-accepts-suggestions-from-CEAI-to-improve-national-highways>

<https://www.mangaloremirror.com/nhai-accepts-suggestions-from-industry-body-ceai-to-improve-ease-of-doing-business-in-national-highways-sector/>

<https://orissadiary.com/nhai-accepts-suggestions-from-industry-body-ceai-to-improve-ease-of-doing-business-in-national-highways-sector/>

<https://www.devdiscourse.com/article/business/1232155-nhai-agrees-with-industry-suggestions-to-improve-national-highways>

<https://www.connexionblog.com/2020/09/29/nhai-accepts-suggestions-of-industry-body-ceai-to-facilitate-trade-in-national-highway-region-taja-khabar/>

<https://sae.news/2020/09/29/nhai-accepts-suggestions-from-industry-body-ceai-to-improveease-of-doing-business-in-national-highways-sector/>

<http://www.uniindia.com/tags/nhai-agrees-to-most-of-suggestions-made-by-ceai>

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. As a result, NHAI has issued a circular dated 01.09.2020, which is reproduced below:



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय)

National Highways Authority of India

(Ministry of Road Transport and Highways)

जी-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली-110075

G-5 & 6, Sector-10, Dwarka, New Delhi-110075

दूरभाष / Phone : 91-11-25074100/25074200

फैक्स / Fax : 91-11-25093507 / 25093514

Ref.: NHAI/11018/01/2008/PQ/296
(Comp. no. 27742)

Date: 01.09.2020

OFFICE MEMORANDUM

Sub.: Pending payment of consulting firms - Reg.

During the meeting held by Chairman on 28.08.2020, the representatives from the Consulting Engineers Association of India (CEAI) expressed concerns on following payment related issues:


- (i) Delay in payment to the consultants.
- (ii) Non-payment of GST amount along with the monthly invoices.
- (iii) Withholding of payments pending grant of EoT to the consultancy contracts.

2. This has been viewed seriously. In this regard, it may be noted that;

- (i) Vide policy circular no. 9.2.31/2019 dated 20.12.2019 (*copy enclosed*), instructions were issued for clearing the pending undisputed payments within maximum 5 working days. In case of any hurdle in payment of bill, the heads of offices shall bring the same to the notice of Member concerned immediately.
- (ii) Further, vide policy circular no. 3.3.18/2017 dated 17.11.2017 (*copy enclosed*), it was clarified that the applicable GST amount, in terms of contractual provisions, may be paid along with the invoices subject to proof of deposition within 15 days of filing the returns or along with next invoice, whichever is earlier.
- (iii) Vide policy circular no. 151/2014 dated 04.02.2014 (*copy enclosed*), it was decided that pending grant of EOT to the Consultancy Contracts, the amount due for overstay on the project and which are billed as per actual may be paid without linking the same with EOT approvals.

3. In view of above, the abovementioned instructions are hereby reiterated for immediate compliance from all concerned.

4. This issues with the approval of Competent Authority.


 (Ajay Kumar Sabharwal)
 GM (T/SRD&Q)


भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय)

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दूरभाष / Phone : 91-11-25074100/25074200

फैक्स / Fax : 91-11-25093507 / 25093514

NHAI/Policy Guidelines/Engagement of Technical Consultants /2020
No.10.1.23/2020 dated 4th September, 2020

[Decision Taken on File No. NHAI/11013/AE&IE/RFP Doc./2017-Part(2) E-file No. 13491]

Sub.: Addendum to standard RFP document for engagement of technical consultants - reg.

Vide policy guideline no. 10.1.22 dated 10.08.2020, directions have been issued to include technical capacity provisions in RFP / Bidding of future consultancy assignments for maximum number of assignments/ works with any consultancy firm.

2. In this connection, it has been decided that the cap on number of projects will be linked with the Vendor Performance Evaluation System (VPES) Rating after the VPES Rating system is adopted full-fledged in NHAI. The suitable instructions will be issued subsequently.

3. It has been also decided to restore Omnibus Bank Guarantee provisions in the RFP documents for engaging technical consultants.

4. In view of above, the following addendums shall, henceforth, be incorporated by the Technical Divisions and the ROs/ PDs in the RFP/ bids for engaging technical consultants.

(i) RFP for DPR Consultant:

Sr. No.	Details of Addendum	Addl. Clause No.	Section
1	Technical Capacity Provisions (As per Annex-A)	3.1.3	Letter of Invitation
2	The bidding firm/ JV satisfies the technical capacity provisions as stipulated under clause 3.1.3.	5.1 (viii)	Letter of Invitation
3	Determination of Technical Capacity (As per Annex-B)	Form- T11	Appendix-III Formats for Technical Proposals
4	Omnibus Bank Guarantee Provisions (As per Annex-C)	2 nd para under Cl. 6.1	Letter of Invitation

(ii) RFP for Authority Engineer:

Sr. No.	Details of Addendum	Addl. Clause No.	Section
1	Technical Capacity Provisions (As per Annex-A)	15 C	Section-1 Information to Consultants
2	Determination of Technical Capacity (As per Annex-B)	Appendix B-11	Section-4 Format for Submission of Technical Proposal
3	Omnibus Bank Guarantee Provisions (As per Annex-C)	2 nd para under Cl. 7.1	Section-2 Letter of Invitation to Consultants



(iii) RFP for Independent Engineer (HAM/ BOT Projects for Construction Stage):

Sr. No.	Details of Addendum	Addl. Clause No.	Section
1	Technical Capacity Provisions (As per Annex-A)	15 C	Section-1 Information to Consultants
2	Determination of Technical Capacity (As per Annex-B)	Appendix B-11	Section-4 Format for Submission of Technical Proposal
3	Omnibus Bank Guarantee Provisions (As per Annex-C)	2 nd para under Cl. 7.1	Section-2 Letter of Invitation to Consultants

(iv) RFP for Independent Engineer (O&M stage of BOT Projects):

Sr. No.	Details of Addendum	Addl. Clause No.	Section
1	Technical Capacity Provisions (As per Annex-A)	12 C	Section-1 Information to Consultants
2	Determination of Technical Capacity (As per Annex-B)	Appendix B-11	Section-4 Format for Submission of Technical Proposal
3	Omnibus Bank Guarantee Provisions (As per Annex-C)	2 nd para under Cl. 10.1	Section-2 Letter of Invitation to Consultants

(v) RFP for Independent Engineer (OMT Projects):

Sr. No.	Details of Addendum	Addl. Clause No.	Section
1	Technical Capacity Provisions (As per Annex-A)	12 C	Section-1 Information to Consultants
2	Determination of Technical Capacity (As per Annex-B)	Appendix B-11	Section-4 Format for Submission of Technical Proposal
3	Omnibus Bank Guarantee Provisions (As per Annex-C)	2 nd para under Cl. 10.1	Section-2 Letter of Invitation to Consultants

(vi) RFP for Supervision Consultant (O&M of Public Funded Projects):

Sr. No.	Details of Addendum	Addl. Clause No.	Section
1	Technical Capacity Provisions (As per Annex-A)	12 C	Section-1 Information to Consultants
2	Determination of Technical Capacity (As per Annex-B)	Appendix B-11	Section-4 Format for Submission of Technical Proposal
3	Omnibus Bank Guarantee Provisions (As per Annex-C)	2 nd para under Cl. 10.1	Section-2 Letter of Invitation to Consultants

5. The addendums/ amendments issued earlier from time to time shall also be incorporated accordingly.

6. This issues with the approval of Competent Authority.



(Amarendra Kumar)
CGM (Coord.)

Encls.: Annex-A, B & C

To,
All NHAI

Copy to:

*DG (RD) & SS, MoRTH for Information
PS to Chairman
PPS/PS All Member/CVO
Hindi Division for Translation*

MEMBER NEWS

IEI CENTENARY WEBINAR – PARTICIPATION OF PRESIDENT CEAI



The Institution of Engineers (India), West Bengal State Centre organised a Centenary Technical Webinar on ‘Inspection, Investigation, Repair & Rehabilitation of Urban Transport Structures’ on 26th September 2020.

Mr Amitabha Ghoshal, President CEAI, was the lead speaker at the webinar.

MR. SUDHIR DHAWAN IS PRESIDENT ELECT OF FIDIC ASPAC /ASIA PACIFIC



At the General Assembly Meeting of FIDIC Asia Pacific held on 29th September 2020, Mr Sudhir Dhawan, Past President CEAI, has been chosen as President Elect of FIDIC ASPAC/Asia Pacific. He will take over as President in the next GAM . FIDIC ASPAC is a regional group of 23 member associations of FIDIC comprising countries of Asia and Pacific region . CEAI successfully organized FIDIC ASPAC conference for the 1st time in New Delhi in 2019.

REPORT OF FIDIC ANNUAL CONFERENCE 2020

The first-ever online FIDIC international infrastructure conference kicked off (11.9.2020) with panellists and delegates taking part in the “Engineering a post-Covid Future – the challenges for global infrastructure” event from all over the world. The session was concluded with a view that there was a common interest in the finance sector and the engineering and construction sector for understanding how infrastructure is financed and, flowing from that, how risk is managed. This is a shared agenda for years to come and the whole industry needs to work together to build a more collaborative approach to find solutions.

Day two of FIDIC’s online international infrastructure conference held on 14 September with panellists and delegates taking part in a session entitled “Navigating change and delivering infrastructure in the new normal”.

President CEAI and a few GC members attended the Conference from CEAI.

VIEW POINT

September issue of the View Point on the topic “Stakeholder Management in Public Infrastructure Projects” will be published soon.

The themes for the next issue (December 2020) of Viewpoint would be **Digital Engineering**

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. 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.*

***Inside Front Cover booked till June 2021*