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2nd Edition | A VIRTUAL CONFERENCE

BRIDGE CONSTRUCTION IN ASIA

Progress and Opportunities; New Technologies and Best Practices

June 14-15, 2022

Hosted by:



**SOUTHEAST ASIA
INFRASTRUCTURE**

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MISSION

- Asia is home to many of the world's longest bridges and has a strong pipeline of projects coming up in the future. Much of it is being driven by the increasing urbanisation and bold infrastructure programmes of the region's developing economies.
- China has witnessed a big leap in bridge construction. The country has made constant improvements in bridge design and construction. In August 2021, the first cross-river bridge called the China-Russia Tongjiang-Nizhneleninskoye bridge between China and Russia was completed. India too is coming up with many new projects including bridge construction. India has commissioned a few noteworthy projects such as the Bogibeel Bridge in Assam, Signature Bridge in Delhi and the Bandra-Worli Sea Link in Maharashtra. The country is also ready to commission the world's highest railway bridge over the Chenab River in Jammu & Kashmir.
- The Southeast Asian countries are constructing many new bridges in roadways and railways projects. The State Railway of Thailand is coming up with a bridge across the Mekong River to connect the provinces of Nong Khai and Laos. This new bridge is expected to support cargo transport through Thailand, Laos and China on the transnational railway. Cambodia also launched a bridge and road project last year in Troey Koh, Kampot city.
- In July 2021, the 506 metre four-lane bridge Estrella-Pantaleon in the Philippines was opened to traffic while the 32 km Bataan-Cavite interlink bridge project is expected to be completed in 2023. In Myanmar, construction work is in progress on the \$168 million Korea-Myanmar friendship bridge (Dala bridge) project.
- Overall, the region is seeing increasing use of pre-constructed, pre-fabricated and pre-engineered products in the bridge construction process. This has led to reduction in execution time and increase in the quality of the bridges constructed. Japan has extensively used the prestressed concrete technology for bridge construction.
- Going ahead, there is significant scope for innovation in bridge maintenance and safety. The concerns about maintenance and monitoring of bridges have become a big challenge and there is a need to build more reliable and robust structures. Structural health monitoring, including the aspects of public safety, prediction and prevention of structural issues, and budget optimisation for bridge maintenance, is becoming a key focus area in most Asian countries.
- The mission of this virtual conference is to understand the emerging trends and developments, discuss the opportunities and challenges, and highlight the latest construction techniques/methods in the bridge construction market in Asia. The conference will also highlight the technologies and best practices in bridge design, engineering and construction as well as showcase noteworthy projects.

TARGET AUDIENCE

The conference is targeted at top and middle-level managers from:

- Construction companies
- EPC contractors
- Design and engineering firms
- Consultants
- Road and highways developers
- Rail and Mass transit agencies
- Equipment providers
- Operations and maintenance companies
- Cement and steel manufacturers
- Other construction material providers
- Technology providers
- GIS and BIM solution providers
- Investors and financiers
- Multilateral organisations
- Certification and inspection agencies
- Etc.

CONFIRMED SPEAKERS SO FAR



DR ALECS KAK TIEN CHONG
Technical Director
Aurecon



C SANKARALINGAM
Vice President & Head –
Special Projects
L&T Construction



D.A.S JAYASEKARA
Director- PLanning
Road Development Authority
Sri Lanka



MR EDWIN C. MATANGUIHAN
Director Bureau of Design-Bridges
Department of Public Works and
Highways (DPWH), Philippines



FRANCESCO PRESTA
Technical Director
BG&E



FRANCOIS BOTHA
Technical Director
WEB Systems International



HERBERT C LABOY
Vice President and Project Manager
Cebu Cordova Link Expressway
Corporation
Metro Pacific Tollways Company



MARK McCONWAY
Managing Director
WEB Systems International
Bridge Access Provider



MICHAEL WONG
Head of Survey & BIM Manager
Leighton Asia
Hong Kong



NEIL BANERJEE
Regional Director
AECOM



RANDI GOTAMA JOVI
Petarani Project Engineer
Overseas Marketing
PT. Wijaya Karya Beton Tbk



SITHARAMA SAGI
Managing Director
IDDC Engineers



SRINIVASA MANTRALA
Vice President (Technical)
Alicons Infrastructure



SUMAN CHATTOPADHYAY
Head of Bridges Sector
Jacobs



RAED EL SARAF
Technical Principal -
Asset Integrity Management, WSP

Tentative Agenda

Live session

Topics

TRENDS, DEVELOPMENT AND OUTLOOK	• What are the key trends and market size in the bridge construction sector? • What are the challenges being faced in the sector? • What is the future outlook for the bridge construction market?
SEGMENT FOCUS: EXPERIENCE, BEST PRACTICES AND CHALLENGES	Sea Bridge Road Bridge Road-Rail Bridge Urban Flyovers and Elevated Roads • What are the current construction techniques/best practices in bridge construction? • How are the new and emerging techniques providing cost benefits? • What are the key challenges and lessons learnt? <i>The session will focus on presentations on key under-construction and completed bridge projects across Asia</i>
CONTRACTORS' PERSPECTIVE: EXPERIENCE, CHALLENGES AND KEY LEARNINGS	• What has been the experience of contractors? • What are the biggest issues and challenges? How are they being addressed? • What are the best practices being adopted for bridge construction? • What specific steps are being taken to fast-track construction work?
SUSTAINABLE BRIDGE CONSTRUCTION: FOCUS ON INNOVATIVE MATERIALS	• What are the new and emerging material requirements for sustainable bridge construction? • What are some of the noteworthy initiatives in this space? • What have been the associated cost savings?
TECHNOLOGY FOCUS	BIM and Virtual Reality Integrated PMS Bridge Management Systems Others • What are the new and emerging technologies in the bridge construction sector? • What has been the experience in the region in terms of adoption of these technologies? • What are the key challenges in terms of technology adoption?
DESIGN, ENGINEERING AND PROJECT MANAGEMENT	• What are the current design and engineering practices being followed? • What are the technological advancements and innovations in this field? • What are some of the best practices and noteworthy projects? What lessons can be drawn from these?
FOCUS ON PRECAST CONSTRUCTION	• What has been the experience in the precast technique? • What are the emerging trends and advancements in this field? • What are the key issues and challenges?
FOCUS ON BALANCED CANTILEVER CONSTRUCTION	• What has been the experience in balanced cantilever construction? • What are the emerging trends and advancements in this field? • What are the key issues and challenges?
OTHER METHODS OF BRIDGE CONSTRUCTION: SEGMENTAL CONSTRUCTION, INCREMENTAL LAUNCHING TECHNIQUE, ACCELERATED BRIDGE CONSTRUCTION	• What has been the experience with the other techniques/methods of bridge construction? • What are the key considerations in the selection of the construction technique? • What are the key issues and challenges?
SMART SAFETY SOLUTIONS FOR BRIDGES	• What have been the new technologies and best practices deployed for ensuring safety in bridge construction, operations and maintenance? • What have been the key challenges faced in deployment? • What is the future potential for smart safety solutions?
SEISMIC SOLUTIONS IN BRIDGE CONSTRUCTION	• What are the techniques being used to tackle the seismic and structural design? • What are some of the best practices in this area? • What are the challenges being faced?
BRIDGE REPAIR & REHABILITATION	• What are the emerging solutions for bridge repair and restoration? • What is the role of technology in bridge rehabilitation and asset management? • What are the new innovations and advancements for bridge maintenance and safety?
FOCUS ON ASSET MANAGEMENT: AUTOMATED MONITORING AND INSPECTION OF BRIDGES	• What are the key challenges in bridge asset management? • What has been the experience in automated monitoring and inspection of bridge construction? • What is the future potential?

PREVIOUS PARTICIPANTS

Some of the organisations that have attended our related conferences include: A&A Infrastructure Engineering, Aarvee Associates, ACCIONA, **AECOM**, Afcons Infrastructure, AGS Transact Technologies, AIMIL, AI hind construction, **Allied Telesis Asia Pacific**, Alsina Formwork India, Amara Raja Power Systems, Amberg Engineering, Ambuja Cement, AMRL HiTech City, Apco Infrastructure, Apicon real infra, Applus India, Aqua Prep, Arpan Seva Sansthan Jaipur, Artefact Projects, Arup, Arvind Techno Engineers, A'sara Consultants, Ashoka Buildcon, **Asian Infrastructure Investment Bank**, **Asis Elektronik**, **Atkins**, **Atlas Copco**, ATMASTCO, **Aurecon**, **Autodesk**, Avantech Engineering, Ayesa, Azad Jain & Associates, B.G. Shirke Construction Technology, Backbone Enterprises, **Bentley Systems**, **BF Corporation**, Bharat Road Network, Bhoi Consultancy, Border Roads Organisation, Bridge & Roof, BSSPL, Bureau Veritas India, Care ratings, **CDM Smith**, Vietnam, **Cebu Cordova Link Expressway Corporation**, Ceinsys Tech, Central Road Research Institute, **Cloisall Co LLC**, **CLSA**, CM Engineering, **COMBINED GROUP CONTRACTING COMPANY (KSC)**, **Construction Development Corporation Lt.**, consultant, Core Fab Projects CRRI, COWI India, CSIR-Central Road Research Institute, CSIR-CRRI, CTPL, Cuonsultant, D N Constructions, **Dar SSH International Consultants**, Dedicated Freight Corridor Corporation of India, Deevin Group, Deger Engineering Co, Deioners Speciality Chemicals, Delta Electronics, Desai Construction, Development Design Consultants (DDC), Dextra Group, Doka India, **Doka Philippines Inc**, **DPWH**, **DuPont**, DYWIDAG India, E Cube Consultant, Egis India consultancy, Essar Steel, Fedders Lloyd Corporation, Feedback Ventures, **FLSmidth**, Freyssinet, Freyssinet-Menard India, Gammon Infrastructure, **GAMUDA LAND**, GB Infrsolutions, GC-EMBYE, Gemini Power Hydraulics, GHD, GMR, Godrej & Boyce, GR Infraprojects, Grasim Industries, **Gulermak**, HCC, Hercules Structural System, Hilti India, Hindustan Construction Co, Hindustan Construction Company, **Hitachi Zosen**, Holtec Consulting, HUDCO, ICT, IDBI, IDDC Engineers, IDFC, **IHI Corporation**, IIBE, IIFCL, IL&FS Transportation Networks, Indian Railway, Infinite civil solution, INFRASYSS TECHNO CONSULTANT, Intercontinental Consultants & Technocrats, **International Geosynthetics Society**, **IRATOS Singapore**, IRCON International, **Isolux Corsan**, ITD Cementation, ITNL, Jacobs, jAFEC USA Inc., JICA Laos, Jindal Steel and Power, JK Lakshmi Cement, JMC Projects, JSW Steel, K&J Projects, Katahira& Engineers International, Kathmandu university, Kccbuildcon, KEC International, Khaadi SMC, **Khatib & Alami**, KMC Constructions, KNR Constructions, KPMG India, Krishanae Infrastructure, KSIDC, L & T Hydrocarbon Engineering, L&T infrastructure, Larsen & Toubro, LASA, Laviosa India, **LEA Associates South Asia**, **Leica Geosystems**, Liebherr India, LNTIEL, Local Roads Bridge Support Unit, **Louis Berger**, MAURER, MBS India, McNally Bharat, Mega Metro Engineering, Mhi Doha metro project, MiraTech Solutions, Mlura Infrastructure, Mott MacDonald, MPPWD, MSV International, Mtandt, **Multiscale aluminium and metal industries llc**, Mumbai International Airport, MYK Arment, National Council for Cement & Building Materials, National Highway Authority of India, National Highways, NCC, Nippon KOEI India, Oasis Technocons, Osmani & Company, **OSMOS Italia**, PNC Infratech, PT. PratamaDayaCahayaManunggal, PT. Wijaya KaryaBetonTbk., Pyunghwa Engineering, Pyunghwa Engineering Consultants, RITES, Rithwik projects, Road Development Authority, Rodic Consultants, S. P. SINGLA CONSTRUCTIONS, Sabre industries, SAI Consulting Engineers, Sanfield India, **Saudi Binladin Group (SBG) (BPC)**, SGSITS INDORE, **Sika Asia Pacific Management PTE**, Sika, Singhaal Consultants, Super Madi Hydropower, SYSTRA, Techno Economical Solution, Tensaindia engineering, **The Consulate General of Republic of Uzbekistan in Bangkok**, Total International Resources, TPL, Tractebel international GmnH-Infotech ideas, University of Bengkulu, VECPL, Voyants Solution, **Wattanasuk International Co.**, **WCT Construction Sdn. Bhd.**, web system international, Web Systems International, Wide angle infra space, **World Bank**, WSP consultants, **Yooshin Engineering Corporation**, **NAUE**, Navayuga Engineering Corporation, NCCBM, **Nippion Koei**, Omax Autos, Oriental Consultants, Outokumpu, Owens Corning India, Padeco, Patel Engineering, Pioneer Fabricators, Prakash Asphaltings& Toll Highways, PwC, Rahee Infratech, Rail Vikas Nigam, Ramboll India, Ramky Infrastructure, Reinforced Earth India, RITES, Rodic Consultants, Royal Infraconstru, SAI Consulting Engineers, SEW Infrastructure, **SI KA TEC GmbH**, Sicame, Siemens, **Sinclair Knight Merz**, **SMEC International**, SNC LAVALIN, SP Singla Constructions, SREI, **Stirling Lloyd**, Strata Geo Systems, Strata Geosystems, Sunil Chemical Industries, Supreme Infrastructure, SVBTC, Systra MVA cosulting, Tandon Consultants, Tantia Constructions, Tata BlueScope Steel, Tata Consulting Engineers, Tata Projects, Tata Steel, Tata Structura, TechFab, Tensa India Engineering, Texmaco Rail &Engg., **Thales**, Titagarh wagons, Tractebel Engineering, Transys Consulting, TRIL, **Trimble Solutions**, Ultratech Cement, Uniquet Infra, **Universal Engineers**, URC Constructions, Valecha Engineering, Valka Care & Services Infrastructure, Voyants solutions, **Wabtec**, etc.

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	Price before May 25, 2022 (20%)	Standard price
1 Logins	USD 213	USD 250
2-3 Logins	USD 340	USD 400
4-5 Logins	USD 468	USD 550
6-9 Logins	USD 595	USD 700
10-20 Logins	USD 723	USD 850

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- Substitutions/name changes are welcome at no extra charge. Please send these in writing at least two days prior to the conference.
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- Please note that it may become necessary for reasons beyond the control of the organisers to make alterations to the content and timing of the programme or speakers.

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The conference is being organised by India Infrastructure Publishing, the leading provider of information on the infrastructure sectors through magazines, newsletters, reports and conferences. The company publishes Indian Infrastructure and the Roads and Bridges Directory. It also publishes over two dozen reports and eight weekly newsletters in the areas of power, oil and gas, ports and shipping, roads and bridges, airports, urban infrastructure, telecom and railways. These reports include Bridges, Flyovers and Elevated MRTS Structures; Road Development in India; Construction in India; Urban Rail in India and Railways.

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