



7th Annual Conference on

BRIDGES, FLYOVERS AND ELEVATED MRTS STRUCTURES

Plans & Projects; New Technologies & Best Practices

November 27-28, 2017, Shangri-La's - Eros Hotel, New Delhi

Organiser:

**Indian
Infrastructure**

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BRIDGES, FLYOVERS AND ELEVATED MRTS STRUCTURES

Mission

- Rising urban congestion has accelerated the pace of development of bridges, flyovers and elevated MRTS structures in cities. Over the years, the segment has witnessed the implementation of projects with complex engineering features, innovative designs and technologies, and new construction techniques.
- Increasingly, U-girders, precast segmental boxes, cantilever arms, moveable winches and pocket tracks are being used to develop elevated structures.
- In the recent past, a few challenging and landmark projects have been completed. These include the longest river bridge on the Dhola-Sadiya section in Assam, the longest extra dosed cable-stayed bridge across the Narmada River at Bharuch in Gujarat, and a cable-stayed bridge on the Chambal River in Rajasthan.
- Several big-ticket projects are also under implementation. These include the Chenab Bridge in Jammu & Kashmir, the Bogibeel Bridge across the Brahmaputra River in Assam, the Signature Bridge in Delhi and the New Ganga River Bridge in Bihar.
- Private sector involvement continues to be low due to the size of investment and complexities involved. Meanwhile, several projects have attracted multilateral funds. Recently, the Japan International Cooperation Agency approved funding for the Mumbai Trans Harbour Link project in Maharashtra. The Kachi Dargah-Bidupur Bridge Project in Bihar also attracted funds from the Asian Development Bank.
- The industry is also deploying the latest equipment and materials to improve the durability and strength of bridges. For instance, hydraulic rigs and seismic buffers are being deployed to deal with geological vulnerabilities. The use of steel rebars is gradually picking up. In addition, increased attention is being given to aesthetically designed structures facilitated by greater foreign participation in the market.
- However, there are many factors that impede the implementation of bridges/flyovers/elevated MRTS projects. These include geological complexities, inadequate investigation, deficient contract documents, and delays in land acquisition and security and environmental clearances.
- Meanwhile, in order to ensure the timely rehabilitation of old structures, the Ministry of Road Transport and Highways has launched the Indian Bridge Management System (IBMS) for the inventory of all bridges on the national highways.
- In the last few years, Indian Railways has laid increased focus on the construction of rail overbridges and rail underbridges to eliminate level crossings and improve safety. The Expert Group on Railways has recommended the strengthening of 11,250 bridges to sustain higher axle loads at higher speeds; and elimination of all level crossings. In fact, the upcoming dedicated freight corridor will be free of level crossings.
- Going forward, the segment will continue to offer significant opportunity in the next few years. The Setu Bharatam programme will see the construction of 208 road overbridges (RoBs)/road underbridges (RuBs), apart from the replacement and strengthening of 1,500 bridges. Under the Sagarmala initiative, Indian Port Rail Corporation Limited will construct 15 RoBs/RuBs.
- In addition, the National Highways and Infrastructure Development Corporation plans to construct 2,000 bridges by 2020. Over 1,200 km of elevated length is expected to be added in the urban rail segment by 2024-25.
- States too have outlined plans to develop elevated structures. Karnataka recently announced its plan to construct 195 bridges at a cost of Rs 14 billion over the next three years. Telangana, Tamil Nadu and Maharashtra have also laid down ambitious plans to develop bridges and elevated structures.
- **The mission of this conference is to highlight opportunities for the development of bridges, flyovers and elevated MRTS structures in India, and discuss the key challenges in this segment. It will also showcase the noteworthy projects, the latest technologies and construction techniques, and the best practices in the segment.**

Previous participants

The organisations that have participated in our previous conferences are Aarvee Associates, Afcons Infrastructure, AIMIL, Amberg Engineering, Ambuja Cement, AMRL HiTech City, AP Road Development Corporation, Arvind Techno Engineers, Arvind Techno Engineers (P) Ltd, Ashoka Buildcon, Atkins, Atlas Copco, ATMASTCO, Autodesk, Avantech Engineering, Azad Jain & Associates, B.G. Shirke Construction Technology, Backbone Enterprises Ltd, Bangalore Metro Rail Corporation, Border Roads Organisation, Bridge & Roof, Chennai Metro Rail Corporation, Chennai Metropolitan Development Authority, Chhattisgarh Road Development Corporation, CIDCO, Cleanfo India, Core Fab Projects CRR1, COWI India, Crescent Foundry, Dedicated Freight Corridor Corporation of India, Deevin Group, Deloners Speciality Chemicals, Delhi Metro Rail Corporation, Desai Construction, Dextra Group, DWIDAG India Pvt Ltd, EGIS India, Essar Steel, Fedders Lloyd Corporation, Feedback Ventures, Freyssinet-Menard India, Gammon India, Gemini Power Hydraulics, GC-EMBYE, GMR, Godrej & Boyce, Grasim Industries, HCC, Hilti India, Hindustan Construction Company, Hitachi Zosen, Holtec Consulting, HUDCO, ICT, IDBI, IDFC, IIBE, IL&FS Transportation Networks Ltd., Indian Institution of Bridge Engineers, Indian Railways, Indlana Gratings, International Geosynthetics Society, Isolux Corsan, ITD Cementation, ITNL, IRCON International, J&K Cements, JAFEC USA Inc., Jaipur Metro Rail Corporation, Jindal Steel and Power, JK Lakshmi Cement, JMC Projects, JSW Steel, K&J Projects, KEC International, KMC Constructions, KNR Constructions, Kolkata Metropolitan Development Authority, Konkan Railway Corporation, KSIDC, L&T ECC, Laviosa India, Liebherr India, Lea Associates, Leica Geosystems, Louis Berger, McNally Bharat, Mega Metro Engineering, Ministry of Railways, MMRDA, Moit MacDonald, MSV International, Mumbai International Airport, Mumbai Metro Transport, National Council for Cement & Building Materials, National Highways Authority of India, NAUE, Navayuga Engineering Corporation, NCCBM, Oriental Consultants, Outokumpu, Owens Corning India, Prakash Asphaltings & Toll Highways, Public Works Department Delhi, PS Steel Tubes, Rahee Infratech, Rail Vikas Nigam, Ramboll India, Ramky Infrastructure, RDSO, Reinforced Earth India, RITES, Rodic Consultants, SP Singla Constructions, SAI Consulting Engineers, SEW Infrastructure Limited, Sinclair Knight Merz, SMEC International, SNC LAVALIN, South Central Railway, Strata Geo Systems, SREI, Strata Geosystems, Sunil Chemical Industries, Supreme Infrastructure, SVBTC, Systra MVA Consulting, Tata Structura, Tandon Consultants, Tantiya Constructions, Tata Consulting Engineers, Tata Projects, Tata Steel, TechFab, Transys Consulting, TRIL, Trimble Solutions, Uniquist Infra, Valecha Engineering, etc.

AGENDA/STRUCTURE

KEY TRENDS AND OUTLOOK

- ❖ What have been the key trends in bridges, flyovers and elevated MRTS segments?
- ❖ What is the outlook for each of these segments? What are the new opportunities?
- ❖ What are the key areas of concern? What is the outlook for the future?

CONTRACTORS' VIEWPOINT

- ❖ What is the contractors' perspective on the bridge market in India?
- ❖ What have been the key challenges and lessons learnt?
- ❖ What are the future expansion plans/priorities?

SPOTLIGHT ON SETU BHARATAM PROGRAMME

- ❖ What is the current status of the programme? What are the key milestones and targets?
- ❖ What are the opportunities for the construction of bridges under the programme?
- ❖ What are the key issues and challenges? How can these be addressed?

FOCUS ON ROAD BRIDGES

- ❖ What are the key trends in the development of road bridges in India?
- ❖ What are the key issues and challenges? How can they be addressed?
- ❖ What are some of the noteworthy projects? What can be learnt from them?

FOCUS ON RAILWAY BRIDGES

- ❖ What are the key trends in the development of railway bridges in India?
- ❖ What are some of the noteworthy projects?
- ❖ What are the key issues and challenges? How can these be addressed?

FOCUS ON URBAN FLYOVERS

- ❖ What are the key trends in the development of urban flyovers in India?
- ❖ What are some of the noteworthy projects?
- ❖ What are the key issues and challenges? How can these be addressed?

FOCUS ON ELEVATED MRTS STRUCTURES

- ❖ What are the key trends in the development of elevated MRTS structures in India?
- ❖ What are some of the noteworthy projects?
- ❖ What are the key issues and challenges? How can these be addressed?

BRIDGE DESIGN AND ENGINEERING

- ❖ What are the current design practices being followed?
- ❖ What are the new Indian design requirements?
- ❖ What are the safety aspects being considered during the design phase?
- ❖ What are the global best practices? Which designs are the most promising and relevant in the Indian scenario?

FOCUS ON KEY MATERIALS

- ❖ What is the material requirement for bridge construction?
- ❖ What are the recent advances with regard to material?
- ❖ What are the key issues? What are the opportunities?

PROJECT MANAGEMENT AND CONSTRUCTION CHALLENGES

- ❖ What are the key issues and challenges in the construction of bridges in India?
- ❖ What are the key steps being taken by the industry to ensure better project management?
- ❖ What has been the experience so far? What are the best practices and approaches?

ASSET MAINTENANCE AND REHABILITATION

- ❖ What are the practices being deployed to maintain the asset base?
- ❖ What are the key findings of surveys conducted under the IBMS?
- ❖ What are the issues and challenges faced by these projects?

FOCUS ON METALLURGY

- ❖ What are the current steel requirements for the construction of bridges, flyovers and elevated MRTS structures?
- ❖ What are the recent advances with regard to steel?
- ❖ What is the market outlook?

ADVANCES IN BRIDGE CONSTRUCTION TECHNIQUES

- ❖ What are the latest construction methods and techniques in use?
- ❖ What are the key issues and challenges involved in construction?
- ❖ What are the emerging construction technologies? What are the benefits and impact?

CONSTRUCTION OF BRIDGES IN DIFFICULT TERRAINS

- ❖ What are the trends in the development of bridges in geographically difficult locations?
- ❖ What are the key issues and challenges? How can these be addressed?
- ❖ What are some of the noteworthy projects? What can be learnt from them?

FOCUS ON SEISMIC CONSIDERATIONS

- ❖ What are the seismic design specifications for bridges and elevated structures?
- ❖ What methods have been used in India to make the structures earthquake resilient?
- ❖ Which are some of the projects being designed taking seismic aspects into account?

CORROSION ASSET MANAGEMENT IN BRIDGE STRUCTURES

- ❖ What are the corrosion asset management strategies followed in India? What has been the experience so far?
- ❖ What are the limitations and operational challenges of these technologies?
- ❖ What are some of the best practices in minimising corrosion with effective design?

Target Audience

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

- | | | |
|---------------------------------------|--|---|
| - Developers (Bridges and Road) | - Port operators | - Design and Engineering firms |
| - Bridges maintenance companies | - Civil engineering firms | - Technology providers |
| - EPC contractors | - Cement manufacturers | - IT solution providers |
| - Public Works Department | - Steel producers | - Other material manufacturers |
| - State Road Development Corporations | - Construction material providers | - Consultancy organisations |
| - Indian Railways | - Construction equipment manufacturers | - Financial institutions |
| - Metro Rail Corporations | - GIS companies | - Infrastructure development agencies, etc. |

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	INR	GST @ 18%	Total INR	Total USD	INR	GST @ 18%	Total INR	Total USD
One delegate	20,000	3,600	23,600	393	25,000	4,500	29,500	492
Two delegates	32,000	5,760	37,760	629	45,000	8,100	53,100	885
Three delegates	44,000	7,920	51,920	865	65,000	11,700	76,700	1,278
Four delegates	56,000	10,080	66,080	1,101	85,000	15,300	100,300	1,672

- There is a 20 per cent "early bird" discount for those registering before November 2, 2017.
- There is a special low fee of Rs 5,000 per person from Indian Railways, PWDs and state road corporations.

GST @ 18 per cent is applicable on the registration fee.

- To register online, please log on to <http://indiainfrastructure.com/conf.html>

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- Registration will be confirmed on receipt of the payment. Full payment must be received prior to the conference.
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Organiser

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