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BRIDGES, FLYOVERS AND ELEVATED MRTS STRUCTURES

Mission

- The construction of bridges, flyovers and elevated MRTS structures in India has accelerated in the past few years. The size and complexity of projects has also increased.
- Several landmark and challenging projects are 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.
- New types of design and construction methods are evolving. Precast segmental construction techniques are being successfully used to save time and costs, and ensure better quality. Different types such as cable stayed, suspension, integral and extra-dosed bridges are being designed. The standards of bridge design and engineering are continuously improving. Increased attention is being given to aesthetics and seismic designs. New types of materials are being used to improve the durability and strength of bridges. The sector is witnessing growing foreign participation in the areas of construction, design and technology.
- However, several risks and challenges need to be addressed. A number of cases of collapse of elevated structures in the recent past have raised concerns about the safety and quality of construction. Geological surprises and delays in land acquisition and clearances are the other major issues. Further, a significant number of bridges, especially railway bridges, are quite old.
- Having said that, the opportunities in the next few years are substantial. One of the major growth drivers for bridge construction will be the Setu Bharatam programme. It envisages the construction of 208 road over bridges (RoBs)/road under bridges (RuBs), apart from the replacement and strengthening of 1,500 bridges. In addition, the National Highways and Infrastructure Development Corporation plans to construct 2,000 bridges by 2020. The elevated MRTS network is expected to expand to more than 1,100 km by 2020. During the period 2015-19, the Ministry of Railways plans to invest Rs 1.27 trillion in safety works. In fact, the upcoming dedicated freight corridor will be free of level crossings.
- At the same time, advanced design and construction techniques will continue to be explored to ensure economical, durable and fast construction of bridges. In addition, systems for monitoring, assessment and safety of bridges are being put in place. The Ministry of Road Transport and Highways is in the process of launching the Indian Bridge Management System for the inventorisation of all bridges on the national highways.
- Over the next few years, therefore, there will be tremendous opportunities for contractors, consultants, material suppliers, and technology and equipment providers.
- 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 latest technologies, best practices and noteworthy projects.

Previous participants

November 28-29, 2016, The Leela Ambience, Gurgaon

AGENDA/STRUCTURE

KEY TRENDS AND OUTLOOK
- What have been the key trends in bridges, flyovers, and elevated MRTS structures in India?
- 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?

CODES AND STANDARDS FOR BRIDGES
- What are the codes and standards (IRS, IRC, RDSO, etc.) followed for bridge design and construction in India?
- What have been the recent measures? What is their likely impact?
- What changes can be expected in the next one to two years?

CONTRACTORS’ PERSPECTIVE
- 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?

ROAD BRIDGES: PROJECT AND TECHNOLOGY SHOWCASE
- What are the key trends in the development of road bridges in India? What will be the impact of Setu Bharatam on the road bridges market in India?
- What are the key challenges/issues? How can they be addressed?
- What are some of the noteworthy projects? What can be learnt from them?

RAILWAY BRIDGES: PROJECT AND TECHNOLOGY SHOWCASE
- What are the key trends in the development of railway bridges in India?
- What are the key challenges/issues? How can they be addressed?
- What are some of the noteworthy projects? What can be learnt from them?

URBAN FLYOVERS: PROJECT AND TECHNOLOGY SHOWCASE
- What are the key trends in the development of urban flyovers in India?
- What are the key challenges/issues? How can they be addressed?
- What are some of the noteworthy projects? What can be learnt from them?

ELEVATED MRTS STRUCTURES: PROJECT AND TECHNOLOGY SHOWCASE
- What are the key trends in the development of elevated MRTS structures in India?
- What are the key challenges/issues? How can they be addressed?
- What are some of the noteworthy projects? What can be learnt from them?

FOCUS ON SOIL INVESTIGATIONS AND GEOTECHNICAL STUDIES
- What are the geotechnical investigation requirements? How do they impact the choice of technique/method?
- What are the key challenges? How can they be addressed?

ADVANCES IN BRIDGE CONSTRUCTION TECHNIQUES
- What are the latest construction methods and techniques being used?
- What are the key issues and challenges in construction?
- What are the emerging construction technologies (accelerated bridge construction, etc.)? What are the likely benefits and impact?

BRIDGE DESIGN AND ENGINEERING
- What are the current design practices being followed?
- What are the new Indian design requirements?
- What are the global best practices? Which designs are the most promising and relevant in the Indian scenario?

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?

FOCUS ON KEY MATERIALS: CEMENT, SPECIALITY CHEMICALS, PAINTS AND GEOSYNTHETICS
- What are the current material requirements?
- What are the recent advances with regard to materials?
- What is the market outlook for such materials?

BRIDGE MONITORING AND ASSESSMENT
- What techniques are followed to assess the health and durability of bridges?
- What are the key issues and challenges faced?
- What are the key features of bridge management systems?

FOCUS ON SEISMIC CONSIDERATIONS
- What are the seismic design specifications for bridges, flyovers and elevated MRTS structures?
- What methods have been used in India to make the structures earthquake-resilient?
- What are the emerging global trends in design and engineering? Which designs are the most promising and relevant in the Indian scenario?

ADVANCES IN BRIDGE CONSTRUCTION TECHNIQUES
- What are the new Indian design requirements?
- What is the market outlook?

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:
  - Road and bridges developers
  - EPC contractors
  - Urban transport operators
  - Infrastructure development agencies
  - Indian Railways
  - Urban local bodies and relevant government bodies
  - Civil engineering firms
  - Cement manufacturers
  - Steel producers
  - Construction material providers
  - Construction equipment manufacturers
  - Engineering and design firms
  - Technology providers
  - IT solution providers
  - Bridge maintenance companies
  - Other material manufacturers
  - Port operators
  - Consultancy organisations
  - Other railway-related organisations
  - Financial institutions
  - Etc.

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- There is a special low fee of Rs 5,000 per person from Indian Railways, PWDs and state road corporations.
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