7th Annual Conference on

URBAN RAIL-BASED TRANSIT SYSTEMS

New Projects, Upcoming Opportunities and Future Strategies

February 17-18, 2020, Le Meridien, New Delhi
India has emerged as a fast growing market for urban rail-based transit systems. The urban rail network has increased significantly, up from 81 km in 2006 to over 680 km operational currently. The network has expanded from two cities in 2006 to about 13 cities as of March 2019.

The current pipeline of projects in the urban rail sector spells significant opportunity for stakeholders across the board. Over 25 cities in India will have operational metro rail networks in the coming years.

In a long-awaited move, the Metro Rail Policy, 2017 was launched to support the implementation of these upcoming metro rail projects. While the policy provides clear directives on tapping private investment in the sector, the high capital requirement and long gestation periods have rendered PPPs unviable. Another crucial aspect of the policy is the creation of unified metropolitan transport authorities (UMTAs). Kochi and Chennai are some of the cities that are attempting to create such an authority.

Meanwhile, the segment continues to witness the deployment of state-of-the-art rolling stock with an increased focus on indigenous content. Several manufacturing facilities have been set up in India for assembling coaches in-house. Alstom, for instance, has developed a 100 per cent indigenous metro fleet for Chennai, Lucknow and Kochi metros at its manufacturing facility at Sricity in Bengaluru.

Innovations and developments in the fare payments industry are resulting in the adoption and use of a variety of payment methods, especially interoperable electronic payment methods such as smartcards, bank cards, mobile wallets and near-field communication (NFC)-enabled devices. India’s first indigenous automatic fare collection system – the National Common Mobility Card – was launched in March 2019. Moreover, metro corporations have turned to ABT systems to improve the efficiency of metro ticketing.

While metro rail will continue to be the dominant mode of commuting, new modes such as rapid rail and light rail are also being explored. Emerging segments such as station branding, commercial development and real estate development will also provide significant opportunities in the years to come. New concepts and technologies such as mobility-as-a-service (MaaS), internet of trains, big data, predictive maintenance, and the use of renewable energy to power trains and stations are also being explored.

The mission of this conference is to highlight the key trends and developments in the urban rail-based transit segment, discuss the impact of and the gaps in recent policy initiatives, identify the key issues and concerns, showcase noteworthy projects and technologies, and examine new opportunities in the development, design and construction of urban rail projects as well as in the deployment of advanced rolling stock, signalling, telecommunications and fare systems. The conference will provide an excellent forum for all stakeholders including project developers, contractors, consultants and technology solution providers to share their experience and exchange ideas.

**Mission**

- India has emerged as a fast growing market for urban rail-based transit systems. The urban rail network has increased significantly, up from 81 km in 2006 to over 680 km operational currently. The network has expanded from two cities in 2006 to about 13 cities as of March 2019.

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**Target Audience**

The conference is targeted at:

- Urban rail operators
- Construction companies and contractors
- Technology providers
- Equipment and service providers
- Other transit organisations
- Potential developers/investors
- Project developers
- Urban transport planning companies
- Policymakers and regulators
- Financial institutions
- International and national development agencies
- Legal firms
- Urban local bodies and relevant government bodies
- Urban transport operators
- Bridge and tunnel construction companies
- IT solution providers
- Consultants
- Industry analysts, etc.

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AGENDA/STRUCTURE

KEY TRENDS, DEVELOPMENTS AND OUTLOOK
- What are the key sector trends and growth drivers?
- What are the key recent developments?
- What is the outlook for the sector? What are the upcoming opportunities?

GOVERNMENT PERSPECTIVE: IMPACT OF METRO RAIL POLICY, 2017
- What is the government’s perspective on the progress of the urban rail segment?
- What has been the impact of the Metro Rail Policy, 2017, especially with regard to promoting PPPs in the segment?
- What are the plans for the expansion of existing projects and the development of new systems?
- What are the upcoming opportunities in the segment? What is the future outlook?

METRO RAIL OPERATORS’ PERSPECTIVE
- How has India’s metro rail transit system evolved in light of government policies and plans?
- What are the developmental and operational issues and challenges?
- What is the outlook going forward?

CONTRACTORS’ PERSPECTIVE
- What has been the experience so far in the construction of metro rail systems?
- What are the key issues and challenges?
- What are the key upcoming opportunities in the segment?

FINANCING STRATEGIES AND POTENTIAL FOR PPPs
- What are the key financing trends in the sector?
- What has been the overall experience with PPPs? What has been the impact of the Metro Rail Policy?
- What are the new sources of funds and innovative financing models that can be explored (land value capture, property development, etc.)? What are the key risks and challenges?

SPOTLIGHT ON ROLLING STOCK: INDIGENISATION AND NEW INNOVATIONS
- What are the emerging rolling stock requirements? What are some of the recent advances?
- What has been the role of MoHUA’s Guidelines on Rolling Stock Standardisation?
- What has been the experience with the operation of driverless trains? What are some of the upcoming opportunities?

INNOVATIONS IN FARE COLLECTIONS SYSTEMS
- What are the emerging needs and requirements with respect to fare systems?
- What are the recent advances in this area? What are the issues and challenges facing the industry?
- What are the new opportunities in the deployment of smart ticketing solutions (account-base ticketing, NFC, integrated ticketing platforms, travel cards, QR code-based mobile ticketing, digital wallets, etc.)?

ELECTRIFICATION NEEDS AND REQUIREMENTS
- What are the current electrification requirements of urban rail-based transit systems?
- What are the recent advances to ensure energy efficient operations?
- What are the key issues and challenges?

SIGNALLING AND TELECOMMUNICATIONS
- What are the emerging needs with respect to signalling and telecommunications?
- What are the key system upgrades, advancements and innovations?
- What are the opportunities in the deployment of these systems?

FOCUS ON EMERGING CONCEPTS: “METROLITE” AND “METRONEO”
- What are the standards and specifications for the development of light rail and rapid transit systems?
- What are the key challenges associated with the development of such systems?
- What is the future outlook for the development of these systems?

SOLAR ENERGY USE IN URBAN RAIL PROJECTS
- How can solar energy be used in urban rail systems in India?
- What have been some of the recent developments with regard to the deployment of solar rooftop systems?
- What are some of the global case studies? What can Indian players learn from them?

ASSET MANAGEMENT AND MAINTENANCE STRATEGIES
- What are some of the strategies being adopted for efficient management and maintenance of assets?
- What are the best practices for preventive and predictive maintenance?
- What are the issues and challenges being faced?

PROJECT PLANNING, DESIGN AND ENGINEERING
- What are some of the strategies and solutions being adopted for project planning, design and engineering?
- What are some of the best practices?
- What are the issues and challenges being faced? How can these be addressed with the use of technology solutions?

INTEGRATED METRO SECURITY SOLUTIONS
- What are the kinds of integrated security solutions deployed in existing metro projects?
- What are the new and innovative one-stop solutions for metro security and safety?
- What are the key issues and challenges?

POTENTIAL FOR TRANSIT ORIENTED DEVELOPMENT
- What has been the city-level experience with regard to the promotion of transit oriented development?
- What is the future potential?
- What are the issues and challenges being faced?

TUNNELLING REQUIREMENTS FOR METRO PROJECTS
- What has been the experience with metro tunnel construction? What are the key trends?
- What are the key prevalent techniques and methods for tunnelling?
- Which are some of the noteworthy projects? What can be learnt from them?
- What are the key issues and challenges?

CONSTRUCTION OF ELEVATED STRUCTURES
- What are the best practices in the construction of elevated structures for rail projects?
- What are the key issues and challenges? How can they be resolved?
- What are the global best practices that are relevant to India?

FOCUS ON STATION AREA DEVELOPMENT
- What are the new concepts being considered for station area development (station branding, commercial and real estate development, EV charging stations, etc.)?
- What has been the experience so far? What are the upcoming opportunities in this area?

TECHNOLOGY SOLUTIONS FOR RAIL BASED TRANSIT SYSTEMS
- MAAS
- IoT
- Topographical surveys using drones/DGPS
- Big data
- Others

This session will showcase key technologies that are either being adopted or could be adopted for metro rail systems.

PROJECT SHOWCASE: UPCOMING, PLANNED AND PROPOSED
- What has been the overall project planning, design and implementation experience?
- What are some of the global best practices and innovations to facilitate faster project delivery?
- What are the key reasons for project delays? What lessons can be learnt?

This session will feature presentations pertaining to noteworthy projects in the urban rail segment.
Previous Participants from Metro Rail Corporations


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PREVIOUS SPEAKERS

Kumar Keshav
Managing Director,
Lucknow Metro Rail Corporation

S.S. Joshi
Director, Rolling Stock and Signalling,
Delhi Metro Rail Corporation

Daljeet Singh
Director, Works,
Delhi Metro Rail Corporation

Mahendra Kumar
Director, Rolling Stock and Systems,
Lucknow Metro Rail Corporation

S. Sivamathan
Director, Finance,
Maha Metro

R. Ramana
Executive Director, Planning,
Mumbai Metro Rail Corporation

Anup K. Kundu
Director RS&T,
Kolkata Metro Rail Corporation

Piyush Kansal
Group General Manager, Urban Transport
RITES

Rajeev Kumar
General Manager (S&T),
Mumbai Metro Rail Corporation

M.P. Naidu
Project Director,
L&T Metro Rail (Hyderabad)

Surjit Madan
Head Systems,
Amaravati Metro Rail Corporation

Sudhir Rao
Managing Director, India,
Bombardier Transportation

Mangal Dev
Director,
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SNAPSHOTS FROM PREVIOUS YEARS

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- Mention on all conference promotional material (mailings, ads, etc.)
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Organisers
The conference is being organised by India Infrastructure Publishing, a leading provider of information on the infrastructure sectors through conferences, magazines, reports and directories. The company publishes Indian Infrastructure (a magazine devoted to infrastructure policy and finance) and a series of research reports on the transportation sector including Urban Rail in India and Railways in India. The company also publishes the Urban Mass Transit Directory.

Global Mass Transit is a leading provider of information and analysis on the global mass transit industry including metro, bus, light rail, regional rail, and intermodal passenger transport. It publishes the Global Mass Transit Report (a monthly newsletter) and Global Mass Transit Weekly (a weekly update), and operates the www.globalmasstransit.net website.

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- There is a fee of Rs 7,000 per participant for state metro rail corporations, ULBs, development authorities, and academic and research institutions. 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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