

# **MetroRail 2012** **ASIA**

**9 – 11 October 2012**  
**Hyatt Regency Hotel, Mumbai, India**

The fast track



*Investment and development opportunities for operators,  
developers, government and investors*

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**CONFERENCE PROGRAM**

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## CONFIRMED SPEAKERS ON THE AGENDA

1. **Dr. Sudhir Krishna**, Secretary, **Ministry of Urban Development, Government of India**
2. **Rahul Asthana**, Commissioner, **Mumbai Metropolitan Regional Development Authority**
3. **S.V.R. Srinivas**, Additional Municipal Commissioner, **Mumbai Metropolitan Regional Development Authority**
4. **P.R.K. Murthy**, Chief, Transport and Communications Division, **Mumbai Metropolitan Regional Development Authority**
5. **G.R. Madan**, Director, MRTS, Transport and Communications Division, **Mumbai Metropolitan Regional Development Authority**
6. **S.K. Lohia**, Officer on Special Duty (Urban Transport) and Ex-Officio Joint Secretary, **Ministry of Urban Development, Government of India**
7. **Jaideep**, Director, Electrical Engineering, **Ministry of Railways, Railway Board**
8. **Rajiv Choudhry**, Executive Director, Works Planning, **Ministry of Railways, Government of India**
9. **Brajesh Kumar**, Executive Director, Metro Transportation, **AECOM**
10. **Anouj Mehta**, Senior Infrastructure Finance Specialist, **Asian Development Bank**
11. **N. Sivasailam**, Managing Director, **Bangalore Metro Rail Corporation**
12. **D.D. Pahuja**, Director, Rolling Stock, Signalling and Electric, **Bangalore Metro Rail Corporation**
13. **Sudhir Chandra**, Director, Project and Planning, **Bangalore Metro Rail Corporation**, & Member Staff, **Railway Board**
14. **C. Gopinathan**, Director, Finance, **Bangalore Metro Rail Corporation**
15. **K. Rajaraman**, I.A.S, Secretary to Government (Special Initiatives) and Managing Director, **Chennai Metro Rail Limited**
16. **N.K. Kumar**, Chief General Manager, Project Finance, **Chennai Metro Rail Limited**
17. **V. Somasundaram**, Chief General Manager, Construction, **Chennai Metro Rail Limited**
18. **V. Carmelus**, Chief General Manager, Systems, **Chennai Metro Rail Limited**
19. **Yog Raj Bhardwaj**, Additional Vice President and Head – Signalling, **Delhi Airport Metro Express Pvt Ltd**
20. **Satish Kumar**, Director, Electrical, **Delhi Metro Rail Corporation**
21. **H.S. Anand**, Director, Rolling Stock, **Delhi Metro Rail Corporation**
22. **Arvind Bhatnagar**, Executive Director, Signalling and Telecommunications, **Delhi Metro Rail Corporation**
23. **Rajan Kataria**, Chief Engineer, Design, **Delhi Metro Rail Corporation**
24. **C.K. Prasad**, Deputy Chief Signal & Telecom Engineer, **Indian Railways**
25. **Kuldeep Ranka**, Managing Director, **Jaipur Metro Rail Corporation**
26. **N.V.S Reddy**, Managing Director, **Hyderabad Metro Rail Limited**
27. **S.K. Goel**, Chairman and Managing Director, **India Infrastructure Finance Company Limited**
28. **Subrata Gupta**, Managing Director, **Kolkata Metro Rail Corporation**



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29. **J. Ravikumar**, Chief Finance Officer, **L&T Hyderabad Metro Rail Private Limited**
30. **Anil Kumar**, Head – Railway Systems, **L&T Hyderabad Metro Rail Private Limited**
31. **S.K. Das**, Chief Operations and Maintenance, **Metro Railway Kolkata**
32. **Ramesh Kumar**, Chief Project Manager, **Metro Link Express for Gandhinagar & Ahmedabad Co Ltd**
33. **Mohan Gupta**, Director, Metros, **Mott MacDonald India**
34. **Bimal Bhattacharya**, Vice President, Rolling Stock, **Mumbai Metro One Private Limited**
35. **Bharat Modgil**, Project Head, **Mumbai Metro One Private Limited**
36. **Neeraj Jain**, Project Head, **Mumbai Metro One Private Limited**
37. **Hemant Garg**, Head – IT, **Mumbai Metro One Private Limited**
38. **Ashutosh Kulkarni**, Head Signal & Telecom, **Mumbai Metro One Private Limited**
39. **Alok Jain**, Regional Director (India), **MVA Asia Ltd., India**
40. **Allen Jeffree Gale**, Managing Director, **Parsons Brinckerhoff India**
41. **Srinivas Bonala**, Chief Engineer, **Pune Municipal Corporation**
42. **Federico Bortoli**, Chief Executive Officer, **Roma Metropolitana SRL**
43. **Subrata Das**, Industry Director, Public Services, **SAP Asia**
44. **I.C. Sharma**, National Project Manager, **Sustainable Urban Transport Project (MoUD) & Adviser (Elec.), Railway Board**
45. **John Gretton**, Project Director, Navi Mumbai, **The Louis Berger Group Inc.**
46. **Surjit Madan**, **The Louis Berger Group Inc.**
47. **Sharad Mehta**, Chief Engineer (Construction), **Western Railways, India**

## CONFERENCE DAY 1: WEDNESDAY, 10 OCTOBER 2012

- 08:00** Registration
- 08:40** Organiser's welcome remarks
- 08:45** Chairperson's opening remarks
- Alok Jain**, Regional Director (India), **MVA Asia Ltd., India**
- 08:55** Lamp lighting ceremony

### DEVELOPING INDIA'S METRO RAILWAYS

- 09:00** **Keynote Address**  
**Capitalising on India's metro growth opportunities**
- 2012 Progress Update: What have been the developments in the past year?
  - Implementing sustainable governmental policies to drive metro growth
  - Opportunities for public private partnership collaborations
- Dr. Sudhir Krishna**, Secretary, **Ministry of Urban Development, Government of India**
- 09:15** **Keynote Address**  
**Delivering Mumbai's urban transport master plan: What are the key policies and projects to accelerate development?**
- Expanding the rail network master plan to meet the needs of the city's growing population
  - Introducing new lines and parallel routes to reduce congestion on the existing suburban network
  - What are the strategies to ensure immediate delivery of these railway lines? What are the key lessons from the planning and construction of Lines 1 and 2 of the metro?
- Rahul Asthana**, Commissioner, **Mumbai Metropolitan Regional Development Authority**
- 09:30** **Keynote Address**  
**Developing the Mumbai Urban Transport Project to promote integrated public transport**
- Planning the multi-modal corridor: What are the key initiatives to integrate and grow the overall transport network?
  - How does the MUTP promote railway development in Mumbai?
  - What are the transit financing models for the different project phases?
- S.V.R. Srinivas**, Additional Municipal Commissioner, **Mumbai Metropolitan Regional Development Authority**
- 09:45** Morning refreshments and exhibition viewing

### PROJECT SHOWCASE 1: UPDATES, CHALLENGES, AND FUTURE PLANS

- 10:15** **Mumbai Metro**
- Bharat Modgil**, Project Head, **Mumbai Metro One Private Limited**



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- 10:35**     **Delhi Metro**  
Satish Kumar, Director, Electrical, **Delhi Metro Rail Corporation**
- 10:55**     **Bangalore Metro**  
N. Sivasailam, Managing Director, **Bangalore Metro Rail Corporation**
- 11:15**     **Chennai Metro**  
K. Rajaraman, Managing Director, **Chennai Metro Rail Limited**
- 11:35**     **Hyderabad Metro**  
N.V.S Reddy, Managing Director, **Hyderabad Metro Rail Limited**
- 11:55**     **Kolkata Metro**  
Subrata Gupta, Managing Director, **Kolkata Metro Rail Corporation**
- 12:15**     **Navi Mumbai**  
John Gretton, Project Director, **The Louis Berger Group Inc.**  
Surjit Madan, **The Louis Berger Group Inc.**
- 12:35**     Networking lunch and exhibition viewing

## ENHANCING EFFICIENCIES

- 13:30**     **Innovative technologies for sustainable metro rail infrastructure**  
*Autodesk India Senior Executive*
- 13:50**     **Rolling Stock Forum**  
**Capitalising on technological innovations to achieve optimal efficiency and maximize growth**
- What are the main considerations in innovation, design and specification you look at during procurement?
  - How can rolling stock manufacturers help operators to accelerate energy efficiencies and cost effectiveness?
  - Enhancing capabilities to meet rolling stock requirements of operators
  - Highlighting key considerations of operators: Price, innovation and product quality.
- Panelists:**  
**Bimal Bhattacharya**, Vice President, Rolling Stock, **Mumbai Metro One Private Limited**  
**V. Carmelus**, Chief General Manager, Systems, **Chennai Metro Rail Limited**  
**H.S. Anand**, Director, Rolling Stock, **Delhi Metro Rail Corporation**  
**D.D. Pahuja**, Director, Rolling Stock, Signalling and Electric, **Bangalore Metro Rail Corporation**
- Moderator:**  
**John Gretton**, Project Director, **The Louis Berger Group Inc.**
- 14:40**     **Driving innovation and efficiencies in rail transportation and logistics**  
**Subrata Das**, Industry Director, Public Services, **SAP Asia**

**15:00**     **Consultants' Showcase**  
**Understanding design and planning strategies for metro construction**

**Panelists:**

**Mohan Gupta**, Director, Metros, **Mott MacDonald, India**  
**Allen Gale**, Managing Director, **Parsons Brinckerhoff India**  
**Brajesh Kumar**, Executive Director, Metro Transportation, **AECOM**  
**Autodesk Senior Representative**

**Moderator:**

**Anil Kumar**, Head of Engineering & Railway Systems, **L&T Metro Rail Hyderabad Ltd.**

**15:50**     Afternoon Refreshments and Networking Break

**16:20**     **Bringing rail into the 21<sup>st</sup> century: Key challenges and opportunities**

- Investing in increased high-speed and passenger transport capacity
- Exploring advanced safety technology and maintenance
- Driving innovation in technology and services
- Emerging privatisation opportunities

**Federico Bortoli**, Chief Executive Officer, **Roma Metropolitana SRL, Italy**

## SIGNALLING

**16:50**     **Signalling Forum**  
**Key considerations in planning and implementing an optimal signalling system**

- How to evaluate existing and latest signaling systems to meet capacity requirements while maintaining safety and reliability
- Evaluating the latest signaling technologies to improve operational efficiency
- Developing signalling interfaces to allow easy migration

**Panelists:**

**Yog Raj Bhardwaj**, Additional Vice President and Head – Signalling, **Delhi Airport Metro Express Pvt Ltd**  
**Arvind Bhatnagar**, Executive Director, Signalling and Telecommunications, **Delhi Metro Rail Corporation**  
**C.K. Prasad**, Deputy Chief Signal & Telecom Engineer, **Indian Railways**

**Moderator:**

**Ashutosh Kulkarni**, Head Signal & Telecom, **Mumbai Metro One Private Limited**

**17:40**     **Closing Panel**  
**Standardisation and indigenization of metro railways: Infrastructure, rolling stock and their Systems**

- What are the challenges and strategies for adopting a standardised train technology for all metro lines? What are the strategies in redesigning train requirements and infrastructure for the next 20 years?
- What are the benefits of standardization and indigenization? How can these be promoted without diluting reliability and safety?
- What policies, incentives and procedures need to be put in place for encouraging participation of local Industry for enhancing indigenization and domestic value addition through technology transfer or joint ventures with OEMs?
- Adopting technical specifications to international railway industry codes to ensure quality standards with international suppliers



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**Panelists:**

**Sudhir Chandra**, Director (P&P), **Bangalore Metro Rail Corporation Ltd.**, & Member Staff, **Railway Board**

**Satish Kumar**, Director, Electrical, **Delhi Metro Rail Corporation**

**I.C. Sharma**, National Project Manager, **Sustainable Urban Transport Project (MoUD) & Adviser (Elec.)/Railway Board**

**Jaideep**, Director, Electrical Engineering, **Ministry of Railways, Railway Board**

**Anil Kumar**, Head of Engineering & Railway Systems, **L&T Metro Rail Hyderabad Ltd.**

**Moderator:**

**S.K. Lohia**, Officer on Special Duty (Urban Transport) and Ex-Officio Joint Secretary, **Ministry of Urban Development, Government of India**

**18:30** Chairperson's closing remarks and end of Day One

## CONFERENCE DAY 2: THURSDAY, 11 OCTOBER 2012

**08:00** Registration

**08:50** Chairperson's opening remarks

Allen Gale, Managing Director, **Parsons Brinckerhoff India**

**09:00** **Keynote Address**

**Delivering Mumbai's monorail to improve connectivity and passenger mobility**

- What is the status of the monorail project?
- What were the challenges in planning and construction? How were they overcome?
- What are the key lessons learned after the project delay? How can they be minimised for future projects?
- What are the procurement requirements? How did suppliers work with operators to ensure all requirements are met?

P.R.K. Murthy, Chief – Transport and Communications Division, **Mumbai Metropolitan Regional Development Authority**

## FINANCING & FUNDING MODELS

**09:15** **Keynote Finance Panel**

**Evaluating financing models for new & existing projects**

- How to achieve viability in terms of gap funding
- How to instill confidence in funding institutions of loan and repayment structures
- What are the key strategies for timely repayment of loans?
- EPC vs. PPP: What are the advantages and disadvantages?

**Panelists:**

**S.K. Lohia**, Officer on Special Duty (Urban Transport) and Ex-Officio Joint Secretary, **Ministry of Urban Development, Government of India**

**N.K. Kumar**, Chief General Manager, Project Finance, **Chennai Metro Rail Limited**

**S.K. Goel**, Chairman and Managing Director, **India Infrastructure Finance Company Limited**

**Anouj Mehta**, Senior Infrastructure Finance Specialist, **Asian Development Bank**

**Moderator:**

**J. Ravikumar**, Chief Finance Officer, **L&T Hyderabad Metro**

**10:00** **Keynote Address**

**Standardising India's transport networks to achieve profitability and overcome ridership congestion**

- How to improve standardization of metro rail systems in India
- How to achieve profitability for metro systems in India
- How to overcome ridership congestion by increasing capacity

Additional Member of the Railway Board, **Ministry of Railways, Government of India**

**10:20** **Establishing a sound risk allocation framework – how to distribute public & private sector responsibility**

- An overview of the draft Model Concession Agreement for PPP issued by Govt. of India pertaining to Metro Projects
- How a private player is exposed to greater risks giving reference to Mumbai Metro Line 1 and Line 2 and Delhi Airport Metro Express line projects.



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- How these risks can be mitigated by among other things by suggested changes in the Model Concession Agreement.

**Neeraj Jain**, Project Head Mumbai Line 2, **Mumbai Metro One**

**10:40** Morning Refreshments and Networking Break

## PROJECT SHOWCASE 2: UPDATES, CHALLENGES & FUTURE PLANS

**11:20** Mumbai Line 3

**G.R. Madan**, Director, MRTS, Transport and Communications Division, **Mumbai Metropolitan Regional Development Authority**

**11:40** World Class O&M on Light Rail Infrastructure – Challenges and Delivery

*Serco Senior Executive*

**12:00** Jaipur

**Kuldeep Ranka**, Managing Director, **Jaipur Metro Rail Corporation**

**12:20** Networking Lunch

**13:30** Ahmedabad

**Ramesh Kumar**, Chief Project Manager, **MEGA**

**13:50** Kochi

**14:10** Pune

**Srinivas Bonala**, Additional City Engineer (Project), **Pune Municipal Corporation**

## OPERATIONS AND MAINTENANCE

**14:30** **O&M Panel**

**Strategic operations and maintenance to deliver optimum cost and safety benefits**

- Exploring the latest innovations in asset upgrading to assure the continuity and safety of the metro infrastructure at all times.
- Maintaining a balance between metro and passenger safety and meeting the increasing costs of higher operation and metro maintenance
- What are the deciding factors to outsource maintenance or handle it in-house? What is the impact of outsourcing on costs, staff and operations?
- How to develop financially viable maintenance plans
- Best practices in increasing asset lifecycle, overcoming ridership congestion and improving passenger safety

**Panelists:**

**S.K. Das**, Chief Operations and Maintenance, **Metro Railway Kolkata**  
**Anil Kumar**, Head – Railway Systems, **L&T Hyderabad Metro Rail Ltd.**  
*Serco Senior Representative*

**Moderator:**

**Alok Jain**, Regional Director (India), **MVA Asia Ltd., India**

**15:20** Afternoon refreshments and networking break

## CONSTRUCTION - PROJECT MANAGEMENT & EXECUTION

**15:50** **Case Study**

**Achieving successful partnerships across planning, building and operational phases**

- How to effectively collaborate with partners and manage expectations to achieve success?
- How to effectively manage all stakeholder partner interests
- Delivering partnership collaboration projects on time

**Rajiv Choudhry**, Executive Director - Works Planning, **Ministry of Railways, Government of India**

**16:10** **Optimising project management to maximise efficiency and reduce costs**

- How to manage execution challenges so as not to impact on project delivery
- Managing change during planning, construction and operations to deliver projects on time
- How to ensure good safety management which in turn will result in good quality and environmental management?
- Evaluating successful project management strategies to deliver cost effective results

**V. Somasundaram**, Chief General Manager (Construction), **Chennai Metro Rail Limited**

**16:30** **Project Case Study: Delhi Metro – Key success factors**

- Overcoming obstacles and challenges during the planning phase achieve project completion on time and within budget
- Managing stake holder interests effectively
- Developing a productive work culture through project management

**Rajan Kataria**, Chief Engineer, Design, **Delhi Metro Rail Corporation**

**16:50** **Case Study**

**Mumbai's Elevated Suburban Rail Corridor between Churchgate-Virar**

- Need for existing suburban system's capacity augmentation
- Challenges of the project & solutions thereof
- Obtaining support of State, the major stakeholder

**Sharad Mehta**, Chief Engineer (Construction), **Western Railways, India**

## FUTURE DEVELOPMENTS

**17:10** **Closing Panel**

**Capitalizing on India's metro growth opportunities and planning for future capacity**

- Integrating inter-modal transportation to enhance India's public transportation network.
- Consideration of Metro as a Public Good: Driving efficiency, saving health costs and delivering environmental benefits
- Visions for the future to ensure continued and sustainable growth

**Panelists:**

**N. Sivasailam**, Managing Director, **Bangalore Metro Rail Corporation**



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**Subrata Gupta**, Managing Director, **Kolkata Metro Rail Corporation**

**K. Rajaraman**, Managing Director, **Chennai Metro Rail Limited**

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**Moderator:**

**G.R. Madan**, Director, MRTS, Transport and Communications Division, **Mumbai Metropolitan Regional Development Authority**

**18:00** Chairperson's closing remarks and end of conference