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Hear from



Sanjeev Kumar Lohia
Officer on Special Duty (Urban Transport) and Ex-Officio Joint Secretary
Ministry of Urban Development, Government of India



N. Sivasailam
Managing Director
Bangalore Metro Rail Corporation Limited, India



K. Rajaraman
Managing Director
Chennai Metro Rail Limited, India



Satish Kumar
Director, Electrical
Delhi Metro Rail Corporation, India



Kuldeep Ranka
Managing Director
Jaipur Metro Rail Corporation Limited, India

3rd annual

MetroRail 2011 ASIA

8 – 10 November 2011, Shangri-La New Delhi, India

The fast track



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

Exploring partnership and collaboration opportunities in Asia?

Establish relationships and sign business deals with the key decision makers in the world's fastest developing railway market

Looking for tunnelling and construction project opportunities?

Gain access to the upcoming multi-billion-dollar metro projects in India today

Keen to learn best practices that deliver measurable ROI?

Apply proven strategies in improving your operations to maximise productivity, safety, farebox and non-farebox revenues

Tunnelling and Construction World India 2011 **NEW!**
9 November 2011

Pre-conference masterclass *Separately bookable*
8 November 2011
Optimising project management strategies to ensure on-time project delivery and cost-effectiveness
Lead by Bangalore Metro Rail Corporation

>> Details on page 8

Speaker line up page 3
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“Excellent content. Excellent presentation.”

N. Sivasailam
Managing Director
Bangalore Metro Rail Corporation, India

“It is a unique conference and offering opportunity for various units of metro systems to meet each other and learn from others’ experience.”

Ashwani Saxena
Officer on Special Duty
Jaipur Metro, India

“MetroRail Asia allows the participants to be updated on the latest progress of the metros in Asia, particularly India.”

Tay Lay Peng
Senior Engineer
Land Transport Authority, Singapore

Optimise project management through smart tunnelling and construction technologies and practices

What is this about?

Asia’s metro rail operators are looking to build and expand their networks with maximum efficiency at minimal costs. Working out the right combination of safety, cost effectiveness and on-time delivery is a big challenge – especially as construction sites are increasingly located in crowded urban areas.

How can you overcome these challenges and optimise your project management?

Are all of your metro projects being completed in time and within budget? The best strategy to accomplish this is to implement smart tunnelling and construction technologies and practices.

At **MetroRail Asia 2011**, hear from India’s top rail operators as they present their expansion plans. At the inaugural **Tunnelling and Construction World India**, gain access to the project opportunities and learn proven strategies and innovations to optimise your project management. What are the new technologies that drive safety and construction efficiencies? How can you ensure system reliability and on-time project delivery? What are the station and tunnel designs that will minimise lifecycle costs? Check out the programme and see how you can benefit.

Providing the solutions to your challenges

Endorsed by the Institute of Urban Transport and supported by the Ministry of Urban Development and the Ministry of Railways, MetroRail Asia 2011 will give you the insights and tools to maximise the benefits of smart rail technologies and practices. This key strategy will make a valuable impact on your business goals. You will

be able to optimise your cost management and, by getting your network operational faster, drive your revenues and profits.

What will I learn at MetroRail Asia 2011?

- **Minimise** risk and project delay through project control and change management
- **Drive** safety through station and tunnel design and management
- **Optimise** project funding strategies through agency, private and innovative financing
- **Maximise** service reliability and optimise asset productivity through information technology systems
- **Enhance** productivity, security and customer experience through signalling and integrated network communications
- **Evaluate** the latest track innovations to reduce derailment and improve safety and reliability of operations

Learn from international business leaders

As Asia’s premier metro rail conference, MetroRail Asia 2011 attracts participants from the region’s best-performing and reputable metro authorities and operators.

Hear from government and operator CXOs from **Delhi, Bangalore, Mumbai, Kolkata, Chennai, Hyderabad, Ahmedabad and Jaipur**, as well as key consultants like **Mott MacDonald, MVA and Parsons Brinckerhoff**, as they share their strategies in driving engineering and construction efficiency. You will gain cross-transferable insights and experiences in project management to maximise your ROI, and strengthen your market position in a challenging environment. Call us to reserve your seat today!

Bring a group and save up to 35% off!
40+ speakers, 200+ delegates and 3 content-packed days. Bring a group to ensure you maximise your participation and take advantage of all the content and networking sessions.



7 REASONS

Why you can't afford to miss this event

- 1. Establish relationships** with over 200 senior-level executives from the fastest growing rail operators
- 2. Get first hand information** on rail operators' plans and strategise how you can do business with them
- 3. Find out the decision criteria** in acquiring new technology and achieve positive returns on your investment
- 4. Learn best practices** in metro tunnelling and construction for immediate project implementation
- 5. Evaluate various options** to successfully financing your rail infrastructure
- 6. Gain in-depth business insights** through one-on-one discussion with the experts in our roundtables
- 7. Apply the right innovation** to optimise your operations through our technology sessions

2010 statistics

- 181** attendees
- 127** Indian delegates
- 59%** CXOs, Directors and Vice Presidents
- 36%** metro operators and authorities
- 72** companies
- 21** countries
- 1** platform

The Terrapinn difference

Terrapinn events create exciting places to...

- Interact and grow knowledge
- Meet and make contacts
- Become inspired and reenergised

Use your brain



A-list of industry executives



Sudhir Chandra, Director, Project and Planning
Bangalore Metro Rail Corporation Limited, India

Gain valuable insights in project management as Sudhir will talk about how the Namma Metro Phase 1 was completed on time and within budget.



Priya Srivastava, Assistant General Manager
Centre for Railway Information Systems, Ministry of Railways, India

Responsible for developing Kolkata Metro's AFC system, Priya will share the lessons learned in the process of development and implementation of this unique hybrid technology.



V. Carmelus, Chief General Manager, Systems
Chennai Metro Rail Limited, India

What are the important criteria for rolling stock acquisition in the Indian market? Chennai Metro's rolling stock head will share his perspectives.



Vikas Kumar, General Manager, Operations
Delhi Metro Rail Corporation, India

With his experience in operations, advertising and property development, Vikas will demonstrate how Delhi Metro has significantly improved its revenues by maximising opportunities in value-added services.



N.V.S. Reddy, Managing Director
Hyderabad Metro Rail Ltd, India

Responsible for spearheading the mega Hyderabad Metro project, he will illustrate monetisation strategies in driving ridership to improve the metro's financial viability.



Pradeep Kumar, Chief Executive Officer
India Infrastructure Financial Corporation Ltd (IIFCL)

As the IIFCL is a major investor in India's metros, Pradeep will share how it evaluates projects for financing and how operators can make their projects attractive to investors.



Sanjay Gupta, Chairman
Metro Link Express for Gandhinagar and Ahmedabad (MEGA) Company Ltd., India

At the helm of the new MEGA project, Sanjay will detail how he plans to fast-track the development of this multi-billion-dollar metro.



Mohan Gupta, Director, Metros
Mott MacDonald, India

Learn how to maximise safety through station design, as Mohan shares extensive case studies on design management.



Hemant Garg, Head - IT
Mumbai Metro One Pvt Ltd., India

With his experience as the IT head in Reliance Metro's rail projects, Hemant will be sharing his perspectives on using smart rail technologies to improve asset reliability.

Who attended in 2010?

- ACS Solutions Switzerland Ltd
- AEG Power Solutions GmbH
- Alcatel-Lucent
- Amtek Transportation Systems Limited
- Asian Development Bank
- Atkins
- Bangalore Metro Rail Corporation Ltd
- BEML Limited
- Besix
- BloombergUTV
- Bombardier Transportation
- Bony Systems and Technologies Limited
- Chennai Metro Rail Limited
- CNBC-TV18
- Cubic Transportation Systems India
- Cubic Transportation Systems, Inc.
- Delhi Airport Metro Express Pvt Ltd (DAMEPL)
- Delhi Metro Rail Corporation Ltd.
- Dellner Couplers India Pvt. Ltd.
- Dellner Dampers AB
- Dextra India Pvt Ltd
- Express Rail Link Sdn Bhd
- GE India Industrial Private Limited
- Giesecke & Devrient GmbH
- Government of Rajasthan
- HBL Power Systems Ltd.
- Hyderabad Metro Rail Limited
- IMG Consulting
- Infineon Technologies AG
- Institute of Urban Transport (India)
- Interfleet Technology
- ITNL Enso Rail Systems Limited
- Jaipur Metro Rail Corporation
- Japan International Cooperation Agency - India Office
- Japan International Cooperation Agency (JICA)
- Jindal Steel & Power Limited
- JSL Stainless Limited
- Knorr-Bremse
- Knorr-Bremse India Pvt. Limited
- Land Transport Authority
- Lucchini RS
- Maire Tecnimont
- Mass Rapid Transit Authority of Thailand
- Metro One Operation Pvt. Ltd.
- Metro Pacific Investments Corporation
- Metro Railway Kolkata
- Ministry of Industry & Commerce, India
- Ministry of Railways, Government of India
- Ministry of Urban Development, Government of India
- MSI Global Pte Ltd
- Mumbai Metro One Private Limited
- Mumbai Metropolitan Region Development Authority
- Nabtesco Corporation
- New Board Investments (HK) Limited
- Panasonic Systems Asia Pacific
- Parker and Associates Inc.
- Parsons Brinckerhoff India Pvt Ltd
- Passenger Rail Agency of South Africa (PRASA)
- Prime Minister's Office, Government of India
- Public-Private Infrastructure Advisory Facility (PPIAF), The World Bank
- Rapid Metro Rail Gurgaon
- RDSO
- Roma Metropolitan SRL
- Serco Group Plc
- Siemens AG
- Siemens Ltd.
- SMRT Corporation
- SMRT International Pte Ltd
- State Railway of Thailand
- Technimont ICB
- Technimont S.p.A
- Thales Transportation Systems
- Western Railway, Mumbai



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safety. With solutions running effectively in more than 80 mission-critical railway networks, Alcatel-Lucent provides deep expertise in building, integrating and managing networks - to optimise operational efficiency and ensure safety and security for an enhanced customer experience. To learn more about how Alcatel-Lucent can help you provide your customers with an on-time, safe and connected journey, please visit us at www.alcatel-lucent.com/tracktalk

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AT THE SPEED OF IDEAS™

Conference Day 1 Wednesday, 9 November 2011

KEYNOTE PLENARY SESSION

DEVELOPING INDIA'S METROS

8:00 Registration

8:40 Organiser's welcome remarks

8:45 **Chairperson's opening remarks**
Rudy Mazza, Marketing Director, Alcatel-Lucent8:55 **Lamp lighting ceremony**9:00 **Accessing India's metro growth opportunities: MOUD's master plan on the country's urban transport development**

- Increasing public transport mode share through optimising multi-modal connectivity: Aligning metro, bus, ferry and mainline systems to improve ridership and revenues
- What are the available partnership opportunities for private sector companies in the funding and expansion of metros? How can private investors be incentivised to take part in these projects?
- What are the government policies and support that drive the growth of the metro industry?

Sudhir Krishna, Secretary, Ministry of Urban Development, Government of India

9:20 **Fast-tracking metro development through technology, policies and expertise sharing**

- Capitalising on the Ministry's experience in mainlines: Optimising knowledge and personnel exchange for success in the metro environment
- Working with partners on engineering, construction and new rolling stock requirements to fast-track planning, tendering and construction processes
- Ensuring reliability and safety in metro operations through skilled workers, technological standards and innovations

Rajeev Bhargava, Additional Member, Works, Railway Board, Ministry of Railways, Government of India

9:40 **CEO Forum: Monetising India's metro growth: Strategies in driving ridership, minimising costs and developing ancillary revenue opportunities**

- Prioritising life-cycle costing over contract value: What are the key criteria during tender evaluations?
- What are the criteria in adopting new innovations? How can you ensure that returns are maximised?
- How can employees be more productive and efficient? Utilising technology to improve operational efficiency and minimise costs
- Extending assets' commercial life: How can operators maximise efficiency and utility from assets?
- Integrating smart technologies to monitor and reduce energy consumption, carbon footprint and operating costs

Moderator:

Pranjal Sharma, Senior Executive Editor, Bloomberg UTV, India

Panelists:

N. Sivasailam, Managing Director, Bangalore Metro Rail Corporation Limited, India

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

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

N.V.S. Reddy, Managing Director, Hyderabad Metro Rail Limited, India

Kuldeep Ranka, Managing Director, Jaipur Metro Rail Corporation

V.B. Gadgil, Chief Executive and Managing Director, L&T Metro Rail Hyderabad Limited, India

Sanjeev Kumar Lohia, Officer on Special Duty (Urban Transport) and Ex-Officio Joint Secretary, Ministry of Urban Development, Government of India

10:40 Morning refreshments and exhibition viewing

Choose from any of the 2 streams

TRACK 1: METROS

PROJECT SHOWCASE 1 - UPDATES, CHALLENGES AND FUTURE PLANS

11:10 **Delhi Metro**
Satish Kumar, Director, Electrical, Delhi Metro Rail Corporation, India11:30 **Connecting metros to deliver better operations, safety and passenger experience**

- Enhancing the role of telecommunications in rail – making each journey on-time, safe and connected
- Successfully delivering end-to-end communications for the Delhi Airport Metro Express
- Enabling telecommunications in the world's longest tunnel: Gotthard Tunnel case study

Jan Zuurbier, APAC Vice President of Sales – Strategic Industries, Alcatel-Lucent

12:00 **Hyderabad Metro**
N.V.S. Reddy, Managing Director, Hyderabad Metro Rail Limited, India

12:20 Networking luncheon and exhibition viewing

13:50 **Jaipur Metro**
Kuldeep Ranka, Managing Director, Jaipur Metro Rail Corporation, India14:10 **Chennai Metro**
K. Rajaraman, Managing Director, Chennai Metro Rail Limited, India14:30 **Metrolink Express for Gandhinagar and Ahmedabad (MEGA)**
Sanjay Gupta, Chairman, Metro Link Express for Gandhinagar

OR

TRACK 2: TUNNELLING AND CONSTRUCTION

PROJECT MANAGEMENT

11:10 **Project Management Forum: Optimising project management to maximise efficiency and reduce costs**

- Ensuring projects meet predetermined plans and budgets: How do metro operators ensure effective construction, management and supervision?
- How do you overcome key challenges in implementing and meeting these safety standards? What are the solutions available?
- How to overcome key challenges in developing an underground metro through congested and constraining locations? What are the key actions that need to be taken before ground breaking?
- Managing change during planning, construction and operations
- Using sustainable energy and materials to reduce your carbon footprint and operational expenditure

Moderator:

Mohan Gupta, Director, Metros, Mott MacDonald, India

Panelists:

Sudhir Chandra, Director, Project and Planning, Bangalore Metro Rail Corporation Limited, India

V.K. Singh, General Manager, Underground, Chennai Metro Rail Limited, India

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

S.K. Gupta, Chief Engineer, Planning, Delhi Metro Rail Corporation, India

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

Conference Day 1 Wednesday, 9 November 2011 (cont'd)

TRACK 1: METROS (cont'd)

FUNDING RAIL PROJECTS

14:50 CFO Forum: Innovative financing for existing and new rail projects

- What are the funding options currently available for metro operators and authorities?
- Can current sources adequately meet the financing requirements of capital-intensive transport projects? Do interest rates match the uneven revenues gained by these projects? What are the concrete measures to be done in improving project funding schemes?
- Expanding the PPP model to all metros: What are the key factors contributing to the long-term success of these projects? How should they be structured? What has been learned from the Mumbai Metro and Hyderabad Metro models?
- Exploring carbon financing: With the many metro and mainline projects on the agenda, how can this option meet the gap in supply of funding?

Moderator:

Siddharth Zarabi, Editor - Economic Policy, **CNBC-TV18, India**

Panelists:

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

R.N. Joshi, Director, Finance, **Delhi Metro Rail Corporation, India**

Shyam Lal Agarwal, Financial Expert, **Jaipur Metro Rail Corporation Limited, India**

Sanjay Gupta, Chairman, **Metro Link Express for Gandhinagar and Ahmedabad (MEGA) Company Ltd., India**

15:30 Afternoon refreshments and exhibition viewing

16:00 Investors' Forum: Driving infrastructure development through agency and private financing

- What are the metro financing opportunities that you are offering? What is the duration and costs to operators and how efficient is this?
- What constitutes a bankable deal? How do agencies evaluate projects for financing? How can operators create a more attractive project for development financing?
- What are the political and social issues that the government has to overcome to attract more domestic and international private and public investors?
- What are the opportunities available for financiers and suppliers to collaborate with agencies and development banks? Is there an opportunity for co-financing?
- What is the impact of aid financing to procurement?
- Is there a place for private sector lenders in rolling stock leasing? When should rolling stock be financed outside a BOT project?

Moderator:

Siddharth Zarabi, Editor - Economic Policy, **CNBC-TV18, India**

Panelists:

Anouj Mehta, Nodal Officer for Public-Private Partnerships (India), Senior Infrastructure Finance Specialist, South Asia Department, **Asian Development Bank**

Pradeep Kumar, Chief Executive Officer, **India Infrastructure Financial Corporation Ltd (IIFCL)**

Tarun Shankar, Consultant, Infrastructure Investments, **International Finance Corporation**

ROUNDTABLE DISCUSSIONS

16:40 Roundtable discussions promote interactive and valuable knowledge exchange between the experts and audience. Participants are encouraged to share their views and brainstorm on the issues below with their group.

1. Minimising energy consumption and costs through rolling stock innovations

Discussion leaders:

D.D. Pahuja, Director, Rolling Stock, Signalling and Electric, **Bangalore Metro Rail Corporation, India**

TRACK 2: TUNNELLING AND CONSTRUCTION (cont'd)

12:10 Enhancing safety through optimal station design and development

- What are key factors to consider in selecting the optimal location for an underground metro station to enhance passenger safety?
- What are the measures and strategies in ensuring the safety and security of the surrounding infrastructure and environment?
- How to ensure best fire safety measures are put in place?
- Preparing for emergencies: Ensuring easy access to stations and preparing for varying levels of passenger traffic

Mohan Gupta, Director, Metros, **Mott MacDonald, India**

12:30 Networking luncheon and exhibition viewing

TRACK WORKS

13:30 Track Works Forum: Evaluating the latest track innovations to reduce derailment and improve safety and reliability of operations

- Identifying suitable trackform and track fasteners in terms of usage requirements, construction, durability and ease of maintenance
- Minimising secondary noise and ground vibrations from running trains to reduce impact on existing developments in close proximity
- Delivering a stable railhead to minimise misalignments, delays and the possibility of derailments

Panelist:

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

TUNNELLING

14:20 Optimising tunnel management to minimise risks, costs and project delay

- Tunnelling in different soil conditions – what are the challenges posed by Indian conditions?
- What are the emerging trends in tunnel design?
- What are the latest tunnelling techniques and challenges for constructing an underground metro in congested urban areas?
- How to ensure tunnel climate and ventilation is at its optimal from throughout the entire project cycle?
- How can innovative tunnelling technologies be employed to help enhance tunnel safety and ease of construction?

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

14:40 Assessing tunnelling-induced impact to mitigate damage on adjacent structures

- Reducing cost and risk associated with tunnelling before construction through impact assessment tools
- Understanding tunnelling-induced ground loss mechanisms and the associated displacements, and the risks they pose to adjacent buildings, structures and utilities
- Assessing the various components of the ground loss associated with tunnel boring machine (TBM) excavation in soft ground
- Predicting tunnelling-induced settlements and effects on adjacent pile foundations

Nagen Loganathan, Technical Executive – Tunnels, **Parsons Brinckerhoff Australia Pacific**

15:00 Afternoon refreshments and exhibition viewing

15:30 Tunnel O&M Forum: Key strategies to optimise performance, safety and cost effectiveness of tunnel operations

- What are the key elements to optimise tunnel operations and maintenance? What are the tools available to extend the structural integrity and commercial life of tunnels and tracks?
- How can fire safety be optimised in the tunnels?
- Minimising maintenance costs as a percentage of total operating costs: What are the areas for improvement?
- How can you develop a cost-effective maintenance strategy that promotes reliable and safe metro operations? What are the innovative infrastructure maintenance strategies to attain long term protection?

Conference Day 1 Wednesday, 9 November 2011 (cont'd)

TRACK 1: METROS (cont'd)

Omhari Pandey, General Manager, Rolling Stock, **Delhi Metro Rail Corporation, India**

2. Developing seamless one-card ticketing systems for public transportation

Discussion leaders:

Priya Srivastava, Assistant General Manager, **Centre for Railway Information Systems, Ministry of Railways, India**

Prashant Rao, Chief Engineer (Signalling and Telecommunications), **Delhi Metro Rail Corporation, India**

3. Efficient operations and maintenance strategies to extend asset lifecycle and streamline operations

Discussion leader:

Vikas Kumar, General Manager, Operations, **Delhi Metro Rail Corporation, India**

17:40 Chairperson's closing remarks and close of conference day one

17:50 Networking cocktail

TRACK 2: TUNNELING AND CONSTRUCTION (cont'd)

Panelist:

V.K. Singh, General Manager, Underground, **Chennai Metro Rail Limited, India**

ROUNDTABLE DISCUSSIONS

16:20 Roundtable discussions promote interactive and valuable knowledge exchange between the experts and audience. Participants are encouraged to share their views and brainstorm on the three key topics below with their group.

1. Project management
2. Track Works
3. Tunnelling

17:30 Chairperson's closing remarks and close of conference day one

Conference Day 2 Thursday, 10 November 2011

8:00 Registration

8:50 Chairperson's opening remarks

INTER-MODAL TRANSPORT MOBILITY

9:00 Inter-modal Forum: Optimising inter-modal integration to improve the productivity, profitability and competitiveness of public transportation



- Aligning transport infrastructure to act as passenger feeders and utilising one-card ticketing to increase patronage and revenues: How important a priority is this? What steps are being taken in this direction?
- What are the challenges in coordinating with different government agencies and industry stakeholders?
- Effectively planning for sufficient capacity to meet exponential passenger traffic growth and ensuring optimum customer experience

Moderator:

M.N. Sreehari, Advisor, Traffic, Transport and Infrastructure, **Government of Karnataka, India**

Panelists:

D. Esther, Deputy Planner, Metro Rail, **Chennai Metropolitan Development Authority, India**

B.I. Singal, Director General, **Institute of Urban Transport, India**

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

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

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

J.B. Kshirsagar, Chief Planner, **Town and Country Planning Organisation, Ministry of Urban Development, India**

10:00 Morning refreshments and exhibition viewing

10:40 Utilising a multi-disciplinary approach to the project management of infrastructure and civil projects

- Advancing a structured approach to project management of infrastructure projects
- What are the major challenges and issues during construction? What are the technical, behavioral and contextual skills required for a successful project?
- Learning from the experiences of the Turin Metro Line 1 project and applying this to the Indian context

Piero Antonio Sartore, Head of Project Management & Construction, **Maire Tecnimont, Italy**

SMART RAIL SYSTEMS

11:00 Rolling Stock Forum: Evaluating rolling stock technologies to meet the needs of local customers



- What are the main considerations in rolling stock procurement? What are the unique innovations, design and specifications you look at during procurement?
- How important are green considerations for metro operators?
- How do you effectively increase life cycle of rolling stock? How do you manage the operations and maintenance costs over its commercial life?

Panelists:

D.D. Pahuja, Director, Rolling Stock, Signalling and Electric, **Bangalore Metro Rail Corporation, India**

V. Carmelus, Chief General Manager (Systems), **Chennai Metro Rail Limited, India**

Omhari Pandey, General Manager, Rolling Stock, **Delhi Metro Rail Corporation, India**

Navendu Lad, Head of Rolling Stock, **Delhi Airport Metro Express Pvt Ltd, India**

11:50 Regulating and assessment of safety metro rail system

- Understanding European harmonized safety rules and standards for metro system such as rolling stock, signalling including regulations for Third party safety assessment
- Brief on EN/CENELEC 50126, 50128, 50129 for Independent Safety Assessment (ISA evaluations) of system/sub-systems/components specific for metro rail applications
- Examples and references (related to Third party / ISA evaluations) in Europe and outside European rules and standards for safety of metro rail transportation system

Serge Joseph, Technical Director, **Bureau Veritas, India**

12:10 Signalling Forum: Assessing signalling and communications technologies to improve operational efficiency, reliability and safety

- Meeting the growing passenger demand for metro services: Which signaling technology is appropriate for your operational, cost and growth requirements?
- Improving operations efficiency through telecommunications innovations: What is the impact on traffic management and staff efficiency?
- Utilising passenger information systems to drive customer engagement and improve emergency response management
- What are the opportunities in connecting platform screen doors to improve safety?

Conference Day 2 Thursday, 10 November 2011 (cont'd)

Panelists:

D.D. Pahuja, Director, Rolling Stock, Signalling and Electric, **Bangalore Metro Rail Corporation, India**

Arvind Bhatnagar, Executive Director, Signalling and Telecommunications, **Delhi Metro Rail Corporation, India**

13:00 Networking lunch and exhibition viewing

14:00 CTO Forum: Evaluating IT systems to improve service reliability and optimise asset productivity

- What is the impact of integrating IT on costs and revenues? Is it sufficient to justify the capital costs?
- Determining weak areas in operations through monitoring systems – in particular, how can staff productivity be maximised?
- Migration to a new system or interfacing old and new technologies: Is it worth the extra expenses? What is the most cost effective strategy? What is the ROI?

Panelists:

Sunil Bajpai, General Manager (ICMS), **Centre for Railway Information Systems, Ministry of Railways**

Anil Kumar, Head of Engineering and Railway Systems, **L&T Metro Rail Hyderabad Limited, India**

Hemant Garg, Head - IT, **Mumbai Metro One Pvt Ltd., India**

14:50 O&M Forum: Driving efficiency in metro operations and minimising disruptions to the network

- Establishing O&M standards: How can you ensure control, safety and optimal asset performance?
- Managing breakdowns: What are preventive maintenance activities and tools that operators can do to minimise disruptions and extend asset life?
- Speeding up systems upgrades and preparing for interoperability challenges
- What are the deciding factors to outsource maintenance or handle it in-house? What is the impact of outsourcing on costs, staff and capital investments?

Panelists:

Vikas Kumar, General Manager, Operations, **Delhi Metro Rail Corporation, India**

Anil Kumar, Head of Engineering and Railway Systems, **L&T Metro Rail Hyderabad Limited, India**

S.K. Das, Chief of Operations and Maintenance, **Metro Railway Kolkata, India**

15:40 Afternoon refreshments and exhibition viewing

MAXIMISING RAIL REVENUES AND CUSTOMER ENGAGEMENT

16:10 Ticketing Forum: Delivering improved passenger revenues through one-card ticketing systems

- Expanding distribution channels to improve convenience for passengers – Which ticket purchase and top-up channels are most effective?
- Exploring the scope of smart ticketing cards to capture new revenue opportunities
- Evaluating mobile ticketing – What are the opportunities and pitfalls in implementation and payments security?

Panelists:

Priya Srivastava, Assistant General Manager, **Centre for Railway Information Systems, Ministry of Railways, India**

Prashant Rao, Chief Engineer (Signalling and Telecommunications), **Delhi Metro Rail Corporation, India**

17:00 Ancillary Revenues Forum: Creating a customer centric rail operation to drive passenger loyalty and metro revenues: Capitalising on advertising, property development and value-added services

- Understand, anticipate and influence customer behaviour by utilising customer analytics and business intelligence – Getting the perspectives and buy-in of your customers
- Utilising the rolling stock and station to maximise advertising and retail revenues
- Exploring property development opportunities to drive traffic and enhance value of the metro network: Which facilities – whether residential, office or retail – are most effective in generating loyal patronage? How should this business be structured in metro operator companies?
- Engaging with customers using the web, mobile phones, Facebook and other web 2.0 platforms – How can this be translated into farebox and nonfarebox revenues?

Panelists:

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

Vikas Kumar, General Manager, Operations, **Delhi Metro Rail Corporation, India**

R.M. Krishnan, Joint General Manager, **Marketing, Delhi Metro Rail Corporation, India**

17:50 Chairperson's closing remarks and end of conference

Pre-Conference Workshop Tuesday, 8 November 2011

Optimising project management strategies to ensure on-time project delivery and cost-effectiveness

Capitalising on project opportunities and learning best practices from Namma Metro's expansion

Presented by 

In 2011, the Namma Metro is set to begin commercial operations whilst undertaking planning and construction in the next phases of network expansion. Bangalore is one of the first cities in India to successfully complete a modern metro system with inter-modal transport connectivity as a key priority. With the first phase of the project completed in time and within budget, government authorities and metro operators can learn project management strategies to optimise their own metro planning and construction. With many tenders and expansion opportunities on the agenda, technology vendors and consultants can capitalise on partnership opportunities.

Topics to be discussed in this workshop include:

- Project planning and resource management: Prioritising inter-modal transport mobility, environmental concerns and construction safety
- Establishing project control systems to maximise on-time delivery capability and cost minimisation
- Optimising change management from planning, construction to the operations stage

- Understanding legal issues to minimise project delay and costs
- Delivering one-card ticketing to improve passenger convenience and ridership revenues
- Maximising engineering expertise through partnerships with the private sector
- Tender launches and future plans for the Namma Metro network

Workshop Leaders:



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



Sudhir Chandra, Director, Project and Planning, **Bangalore Metro Rail Corporation Limited, India**



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