



12th Annual Conference on

RAILWAYS IN INDIA

Plans, Progress, Projects and Opportunities

October 10-11, 2018, Shangri-La's - Eros Hotel, New Delhi

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RAILWAYS IN INDIA

Mission

- The railways sector has, undoubtedly, been a key focus area for the government. In the past couple of years, the government has introduced a number of measures and initiatives to provide the necessary push to the sector. Indian Railways spent almost Rs 1,200 billion on capital investment in 2017-18 (RE). In 2018-19, the target is Rs 1.48 trillion.
- There has been notable progress on various fronts such as track electrification, introduction of new trains and rolling stock, improved passenger services and reduced energy expenditure. The average pace of commissioning of new lines increased from 4.1 km per day during 2009-14 to 6.53 km per day in 2014-18. Indian Railways achieved the highest ever electrification of 4,087 route km (rkm) in 2017-18, as compared to 610 rkm in 2013-14.
- Rolling stock has been a major thrust area for Indian Railways. New trains have been introduced. Superfast trains such as Tejas Express, Antyodaya and Humsafar have been launched. The refurbishment of the first rake of the Utkrish Double-Decker Air-conditioned Yatri (UDAY) Express has been completed. Besides, the first AC EMU (12 coaches) fitted with an indigenous three-phase propulsion system has commenced operations. The first phase of construction of an electric locomotive factory at Madhepur in Bihar has also been completed.
- Preliminary works on India's first high-speed bullet train between Mumbai and Ahmedabad have commenced in full swing. Indian Railways also sanctioned two new suburban rail projects - development of the Bengaluru suburban system (Rs 170 billion) and upgradation of the Mumbai suburban system (Rs 547 billion). Besides, steps were taken to expedite the completion of the dedicated freight corridors.
- Freight traffic also witnessed a much higher year-on-year growth of 5.1 per cent in 2017-18, compared to 0.5 per cent achieved in the previous fiscal. Efforts have also been made to encourage private participation in freight operations. 58 private freight terminals have already been notified under the new Private Freight Terminal Policy. A new policy to encourage private investment in wagons has also been issued.
- However, tardy expansion and augmentation of Indian Railways' network continue to adversely impact train speed, revenue and passenger safety. The slow progress of railway projects is another major issue of concern for Indian Railways. Declining modal share, poor operating efficiency and high freight rates are the other key reasons that have contributed to the utility's adverse financial health. This has led to high dependence on the gross budgetary support.
- Another area that requires immediate attention is passenger safety and security. In 2016-17, Indian Railways recorded the highest ever number of 76 accidents owing to track failures/derailments. A separate safety fund, Rashtriya Rail Sanraksha Kosh, worth Rs 1.19 trillion has been created for undertaking various safety works.
- There has been a consistent focus on sustainability. Indian Railways is undertaking a number of initiatives such as procuring cheaper power, improving the efficiency of power utilisation, stepping up its renewable energy capacity and developing innovative energy-efficient solutions and techniques for reducing the annual energy consumption and expenditure.
- Modernisation and mechanisation of rolling stock and station infrastructure is also being pursued more aggressively. State-of-the-art technologies such as electronic interlocking system, GPS-enabled fog pass devices, real-time train information system, and train protection and warning system have been adopted. There is also increased focus on digital technology with the launch of a number of initiatives - Rail Cloud Project, e-payment through UPI/BHIM, Railsaver application, point-of-sale machines installed, etc.
- **The mission of this conference is to analyse the key trends and developments in the railways sector, highlight the recent initiatives of Indian Railways, examine the new opportunities, and discuss the key issues and concerns. The conference will also showcase noteworthy projects, new and emerging technologies, and best practices.**

Target Audience

The conference is targeted at officials and managers from:

- | | | | |
|----------------------------|----------------------------------|----------------------------|----------------------------|
| - Indian Railways | - Equipment manufacturers | - Major consumers | - Development institutions |
| - Financial institutions | - Private operators | - Contractors | - Road organisations |
| - IR-related organisations | - Technology providers | - Logistics firms and ICDS | - Industry analysts |
| - Consultants | - Potential developers/investors | - Legal firms | - Etc. |
| - Government agencies | - Service organisations | - Port operators | |

Previous Participants

The participating organisations in our previous conferences include: ABB, ACC, ACC Limited, Accenture, Adani Logistics, Aditya Birla Finance, Afcons, AL Batra Group, Alcoa, Alstom, Amara Raja, Ambuja, Amtek, Ansaldo STS, APM Terminals, Arconic of India, Areva, Arshiya Intl, Arup, Assignia Infra, Australian Trade Commission, AVB Consultants, Axis Bank, AZB & Partners, BARSYL, Beekay Corp, Beekay Engineering, BEL, BEML, BESCO, Bharat Rail Automation, Bharat Wagon, Bharuj Dahej Railway, BHEL, Bhilai Engineering, Bombardier, Bosch, British Steel - Sukumar Infrastructure Products & Services, Bureau Veritas, Cargo Motors, CDM Smith, Chennai Port Trust, Chittaranjan Locomotive, CIDCO, CIL, CONCOR, Conlitech, CoreFab Projects, Coslight, CRISIL, Crompton Greaves, CTI Engineering, Cytech Associates, Dalmia Bharat, DB International, DEHN, Desai Diwanji, DFCCIL, Dhamra Port, DLW, DPWorld, DSP Merrill Lynch, Dupont, EGIS, Elenium, EMD Locomotives, Ernst&Young, ESAB, Essar Steel, Essel Infraprojects, Essel Mining, ETA Engg, ETF, EtoE Rail, Ewac Alloys, Exide, Experlon, FAG Bearings, Falvey Transport, Fedders Lloyd, Feedback Ventures, First Group, Fluid Controls, Fomento Mining, Garware Wall Ropes, GatewayRail, Gati, GE Infrastructure Transportation, Geismar, Geoconsult, GIDB, Haitong Securities, Haitong Securities India, Halcrow, HCC, Henkel Adhesives, Hind Terminals, Hindalco, Honeywell, HSBC, Huber Suhner, Huber Suhner, ICICI, IDBI, IDFC, IDFC, IL&FS, IMFA, Indian Railway Stations Development Corporation, IndraSistemas, Inlogistics, Integra Hindustan, Integral Coach Factory, Involute Technologies, IPM, IRCON, IRCTC, JIC, JM Financial, JSPL, JSW, Kalindee Rail Nirman, Kalpataru Power, KEC, KEI, Kesar Terminals, KFW, Kirloskar Pneumatic, Knorr Bremse, Kocchar & Co., Konkan Railways, KPMC, Kutch Railway, L&T ECC, Lahmeyer, Lara Global, Lea Associates, LL Logistics, Lloyd Electric, Louis Berger, M&I Materials, Maccaferri Environmental Solutions, Magnetic Autocontrols, Mahindra Logistics, Marubeni, Merrill Lynch, MGIL RITU HOUSING, Mitsubishi, Monnet Projects, Morgan Stanley, Mumbai Port Trust, Mumbai Rail Vikas Corporation, N&S Solution, National Academy of Indian Railways, National Instruments, Nippon Koei, Nomura Financial, Northern Central Railway, Northern Railways, NTPC, Outokumpu, Patil Rail Infrastructure, PetronetLNG, Phillips, Plasser, PMC Projects, Progressive Construction, PWC, Rail Coach Factory, Rail Tech, RailTel, Railway Board, Raychem RPG, RDSO, Reliance Industries, Reliance Jio, RioTinto, RITES, Ruchi Group, Ruchi Soya, RVNL, SAIL, Sany Heavy Industries, SBI Capital, Scope T&M, Seahorse Buss, Servomax, SEW Constructions, Shapoorji Pallonji, Sherman International, Siemens, Soma Enterprises, Spain Business Overseas, SREI, Sterling & Wilson, SVJ Corporation, SYSTRA MVA, Tata BlueScope, Tata Motors, Tata Projects, Tata Realty, TCE, Technica Telecom, Texon, Thales, TICIL, TMA, Touax Texmaco, Transasia, TRF, TSGENCO, UGL Rail, Ultratech Cement, Uniseven Engineering, Uniseven Engineering, USBRL Project Northern Railway, UTC, Utikarsh Tubes & Pipes, Valvoline Cummins, Vinci Concessions, Vindhya Telelinks, Virgo Consultants, Visakhapatnam Port Trust, Vishal Nimriti, Vizag Steel, VNR Group, Vossloh Cogifer, Vossloh Cogifer India, Wabtec Corporation, Wabtec Corporation, YesBank, Zephyr SpA, etc.

AGENDA/STRUCTURE

KEY TRENDS AND OUTLOOK

- ❖ What have been the key trends and developments in the railways sector?
- ❖ What are the key challenges and new opportunities?
- ❖ What is the future outlook?

KEYNOTE SESSION: INDIAN RAILWAYS' PERSPECTIVE

- ❖ What is IR's perspective on the development of the railways?
- ❖ What has been the impact of the recent initiatives undertaken by IR (to boost freight traffic and improve passenger amenities and safety)?
- ❖ What are the challenges facing the industry?
- ❖ What are the upcoming policy initiatives and future plans of IR?

INVESTMENT PLANS AND FINANCING STRATEGIES: EXPERIENCE AND REQUIREMENTS

- ❖ What have been the trends in IR's capital expenditure?
- ❖ What are the current financing models and funding sources? What has been the experience so far?
- ❖ What are the new sources of funding being explored in the sector?
- ❖ What are the risks and challenges?

ROLLING STOCK: CURRENT STATUS AND FUTURE REQUIREMENTS

- ❖ What have been the key trends in production and acquisition of rolling stock (locomotives, passenger coaches and wagons)? How has the production capacity expanded in the past years?
- ❖ What are the recent innovations in design? What steps are being taken to promote indigenous manufacturing?
- ❖ What are IR's initiatives and future plans?

FOCUS ON TRACKS AND BRIDGES

- ❖ What have been the key developments in railway tracks and bridges?
- ❖ What are the current design practices being followed?
- ❖ What are the recent advances with regard to material?
- ❖ What are the key issues? What are the opportunities?

CONSTRUCTION CHALLENGES AND OPPORTUNITIES

- ❖ What are the latest construction methods and techniques being used?
- ❖ What are the trends in contracting practice for civil works?
- ❖ What are the upcoming opportunities for developers, contractors, and technology/equipment suppliers?
- ❖ What are the various project implementation challenges? How can they be overcome?

FOCUS ON SIGNALLING AND TELECOMMUNICATION

- ❖ What are the recent initiatives and plans in signalling and telecommunications?
- ❖ What has been the experience with some of the technologies deployed in India?
- ❖ What are the key challenges and opportunities?

STATION UPGRADATION

- ❖ What is the current status of the key station modernisation/redevelopment schemes and programmes (Station Redevelopment Scheme, Adarsh Station Scheme, etc.)?
- ❖ What are the timelines and targets?
- ❖ What are the key challenges and opportunities?

MEETING ENERGY REQUIREMENTS

- ❖ What are the energy needs of the railways? How are they being met?
- ❖ How can the railways improve their energy efficiency and reduce their carbon footprint?
- ❖ What are the specific plans for harnessing solar and wind power?
- ❖ What are the key issues and challenges?

FOCUS ON SAFETY

- ❖ What are the key initiatives taken by the government to ensure passenger safety?
- ❖ What has been the impact of these initiatives?
- ❖ What level of investment is likely to be directed towards safety?

UPDATE ON HIGH SPEED RAIL

- ❖ What are the plans for high speed rail development in India? What has been the progress so far?
- ❖ What is the update on the Mumbai-Ahmedabad high speed rail project?
- ❖ What are the new technologies being adopted? What are the issues and challenges?

DEDICATED FREIGHT CORRIDOR: STATUS AND OPPORTUNITIES

- ❖ What is the current status of the DFC? What are the key milestones and targets?
- ❖ What are the upcoming corridors and opportunities?
- ❖ What are the key issues and challenges?

SPOTLIGHT ON PORT RAIL CONNECTIVITY

- ❖ What are the new initiatives and plans for improving port-rail connectivity?
- ❖ What is the status of projects being implemented under the Sagarmala programme?
- ❖ What are the key issues and challenges?

MAKE IN INDIA: UPCOMING PROJECTS AND OPPORTUNITIES

- ❖ What are the recent initiatives under the Make in India programme (related to new production units, rolling stock, signalling and telecommunication)?
- ❖ What are the upcoming opportunities? What are the investment requirements?
- ❖ What are the key issues and future plans?

NEW SUBURBAN RAIL PROJECTS: BENGALURU AND MUMBAI

- ❖ What are IR's initiatives and plans for improving suburban rail networks?
- ❖ Which are the new suburban rail projects announced under the Union Budget 2018-19? What are the targets and timelines?
- ❖ What are the opportunities for developers, contractors, and technology/equipment suppliers?

SPOTLIGHT ON THE REGIONAL RAPID TRANSIT SYSTEM (RRTS)

- ❖ What is the progress on key RRTS projects being undertaken by IR (Nagpur-Mumbai, Delhi-Meerut, Delhi-Panipat, Delhi-Alwar, etc.)?
- ❖ What are the targets and timelines?
- ❖ What are the upcoming opportunities? What are the key issues and challenges?

DIGITAL TRANSFORMATION OF INDIAN RAILWAYS

- ❖ What is the role of IT and automation in various IR's operations (information dissemination, ticketing, real-time container tracking, workforce management, data collection, etc.)?
- ❖ What is the current status of IT adoption in these areas? What is the future outlook?
- ❖ What are the global advancements? What lessons can be learnt?

ASSET MANAGEMENT AND BEST PRACTICES IN O&M

- ❖ What are the technology and analytics solutions available for asset management?
- ❖ What are the best practices in the O&M of assets? What has been the experience so far?
- ❖ What are the key issues being faced? What are the key learnings?

TECHNOLOGY SHOWCASE

- ❖ What are the most promising and relevant technologies?
- ❖ What are the recent trends and development? How is the industry gearing up to meet the emerging requirements?
- ❖ What are the key issues and challenges?

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Three delegates	55,000	9,900	64,900	1,082
Four delegates	70,000	12,600	82,600	1,377

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