



**INTERNATIONAL RAIL CONFERENCE 2023**  
**Innovation and Technology: Changing the Future of Railway**  
12-13 October 2023 | Pragati Maidan, New Delhi

Programme Outline

**Day 1: Thursday, 12 October 2023**

0900 – 0945 hrs	REGISTRATION AND WELCOME TEA / COFFEE
1000 – 1100 hrs	INAUGURAL SESSION
1120 - 1235 hrs	<b>Session I: Railway Infrastructure – Setting new Milestones and the Emerging Opportunities.</b>  <i>Indian Railways has registered unprecedented growth in infrastructure in FY 22-23, with Railway track constructed at a pace of 14km per day and electrification at 18 km per day. Various measures including simplification of process and systems reforms are being addressed to expedite sanctioning and commissioning of projects, to enhance the track safety, improvement in speed and modernization of railway stations by providing better and superior passenger amenities.</i>  <i>To become future-ready, Railways has created the Gati Shakti Directorate and is on its way to deliver projects worth more than Rs 115,000 crore in the next few years. It is also envisaging to develop / redevelop stations into world-class transit hubs with an investment of Rs 1,00, 000 crore and construction of six dedicated freight corridors of 2,843 km by June 2023, 33,000 kms to be electrified by 2023 at a cost of \$2 billion annually, etc.</i>  <i>This session will discuss development, investment and business opportunities in rail infrastructure and the scope for private sector participation as well as implementation roadmap.</i>
1240 – 1355 hrs	<b>Session II: Make in India: Imperatives for Building Competitive Railways Manufacturing Ecosystem</b>  <i>As India has earned itself a place for competitive manufacturing destination for many sectors of the economy, e.g., automobile, defence, pharmaceuticals, etc., there is a huge scope to replicate the same in railway sector. The Indian Railways not only offers the biggest market for railway equipment in the world, but it is also now increasingly looking for new and best technologies, and high-grad quality products in its endeavour to modernize and upgrade the Indian Railways.</i>  <i>It is important to discuss the policy, regulatory, and technological support required to build a competitive Railway Manufacturing Ecosystem in India. This session will dwell on positioning India as global hub for manufacturing of railway equipment &amp; systems and policies and support of the Government of India to promote “Make in India”</i>
1355 – 1430 hrs	Lunch



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<b>1430 – 1545 hrs</b>	<b>Session III: Journey to Net Zero: Indian Railways’ 2030 Vision</b>
<p><i>Globally, the railway sector has a target to be net zero by 2050. The Indian Railways has a much more ambitious target – of attaining the net zero goal by 2030. Projects of the Indian Railways, which touch the lives of over a billion plus people – are at various stages of lowering emissions through three sources; lowering emissions directly from running of trains, factories, and machinery; lowering emissions from energy bought by Railways – for traction, lighting, cooling, and other provisions; and lowering emissions across value chains – for products purchased, for employees commuting, for business travels, among others. From booking tickets online to running trains and stations using solar power; re-using electricity wasted during braking; re/using wastewater, food, and solid waste management the Indian Railways is practising sustainability across its trains; factories; housing colonies; stadiums; hospitals; offices and other assets.</i></p> <p><i>This session will focus on the ambitious goal of Indian Railways to achieve net zero emissions by 2030, discussing the various projects aimed at lowering emissions directly and indirectly. It will also explore how sustainability is being integrated across all aspects of Indian Railways, from online ticket booking to solar-powered trains and stations</i></p>	

<b>1550 – 1705 hrs</b>	<b>Session IV: Digital Transformation of Railway Businesses</b>
<p><i>Digital transformation is revolutionizing the railway industry, bringing about significant changes in the way railways operate and serve their customers. It involves the integration of digital technologies into all areas of a railway business, fundamentally changing how they operate and deliver value to customers. It’s not just about digitizing existing systems, but about leveraging technology to create new or modify existing business processes, culture, and customer experiences.</i></p> <p><i>For Indian Railways, digital transformation could be a game-changer. It can help in enhancing operational efficiency, improving safety measures, and providing better passenger services. Technologies like IoT can enable real-time tracking of trains and predictive maintenance of tracks and rolling stock. AI can be used for intelligent scheduling and crowd management. Digital platforms help in improving ticketing systems and provide real-time updates to passengers. Overall, digital transformation can help Indian Railways become more customer-centric, efficient, and competitive.</i></p> <p><i>The session will focus on how digital technologies are impacting railway operations, enhancing customer experience, and enabling new business models in the railway industry. The discussion will also cover the challenges in implementing digital transformation and the potential opportunities it presents for the future of railways.</i></p>	

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**Day 2: Friday , 13 October 2023**

<b>1000 – 1115 hrs</b>	<b>Session V: Business Opportunities in Urban Rail Transit Systems</b>
<p><i>India is fast urbanizing with better livelihood and opportunities in the cities. This is already congesting the current local and intercity / satellite towns' roads. Public transit system such as busses are already overcrowded. Metro has come as boon to cities, like Delhi and Mumbai, where further augmentation of roads has come to its limits. Similarly, the Rapid Rail Transit System (RRTS) will make intercity travel at much ease and comfort. Such projects in India add to the railway market. Besides, futurist technologies such as hyperloop system, lite-metro systems, and intercity through dedicated corridors of transit system for masses.</i></p> <p><i>This session will focus business opportunities for the private sector from the various Metro projects across the cities and Rapid Mass Transit Systems</i></p>	

<b>1120 – 1235 hrs</b>	<b>Session VI: Mission 3000 - Achieving 3000 Million Tonnes of Freight by 2027</b>
<p><i>As per NITI Ayog's Vision 2030 document, Railways need to carry 40-45% share of the freight on economic and environmental considerations. Accordingly, many capacity enhancement works were envisaged for easing the bottlenecks / constraints and augmenting the network to make it capable of moving 3600 MT cargo by 2030-31.</i></p> <p><i>In view of prevailing international political uncertainty impacting the fuel prices and likely enhancement of, demand for rail transportation, IR needs to gear up to target the much higher traffic growth with ultimate objective to achieve 40-45% modal share by 2030 as per NRP.</i></p> <p><i>The Railways formulated the present Mission 3000MT in May 2022, as an intermediate milestone towards achieving aforesaid ambitious target of NRP by identifying and prioritizing crucial capacity enhancement works for implementation before 2027 and suggesting an action plan for making requisite policy and strategic interventions to induce desired modal shift to Rail.</i></p> <p><i>This session will dwell upon enabling ecosystem for faster movement of freight and other aspects such as intermodal connectivity and logistic system for better handling of not just bulk but also break-bulk commodities, PPP in freight etc.</i></p>	

<b>1240 – 1355 hrs</b>	<b>Session VIII: Towards Safer and Efficient Railway Systems</b>
<p><i>The Indian Railways has taken multiple steps to enhance safety in operation such as elimination of unmanned crossing and hi-tech anti-collision devices. Technology has also been used to real time track train movement and amenities such as Wi-Fi in train and stations, etc.</i></p> <p><i>The Indian Railways is developing and creating technology in areas such as signalling and telecommunication with 15,000 kms being converted into automatic signalling and 37,000 kms to be fitted with 'KAVACH', the domestically developed Train Collision Avoidance System. Advancements in</i></p>	



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*Railway Signalling and Telecom Technologies are facilitating the transformation of the system in a big way with modern technologies, like Kavach, 5G, Centralised Traffic Control and Industry 4.0. The development of automatic Train Protection System (Kavach) is a boost to the vision of "Make in India".*

*This session will focus on the technological advancements in Indian Railways, particularly in the areas of safety and operation such as implementation of automatic signalling, the domestically developed Train Collision Avoidance System 'Kavach', and the use of modern technologies like 5G and Centralised Traffic Control in transforming the railway system.*

**1430 -1515 hrs**

**Valedictory Session**

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