



# 11<sup>th</sup> PHDCCI GLOBAL RAIL CONVENTION

*“ Indian Railways - Journey towards Viksit Bharat through Innovation Infrastructure, Investment & Industry Partnership ”*



**JANUARY 23, 2025 {THURSDAY}**  
**NEW DELHI**



**REGISTER NOW**

## Revolutionizing & Modernizing Railways- I-4

### Innovate; Infrastructure Development; Investment Enhancement & Industry Partnership

Indian Railways with its extensive reach and operating on a mammoth operational scale across the vast expanse of our country (for both passenger & freight), is currently on a mega transformative journey, ushering in a new era of advanced & modern technology & products across all its various sectors while ensuring enhanced & high quality services simultaneously.

The vision of "Viksit Bharat" (Developed India) by 2047 is closely tied to the modernization and transformation of the infrastructure & transportation sector, with Indian Railways being at the heart of this transformation. Through robust Investments in Innovation & Technology adaptation, Infrastructure enhancement, strategic initiatives, Industry Collaborations & Long- term investment, Indian Railways is set to redefine its role in the global transportation landscape also. Indian Railways can achieve new heights in passenger and freight transport, fostering inclusive growth, job creation, and sustainability by significant advancements in Civil Engineering that enhance the efficiency, safety and reliability of the railway infrastructure, while modernizing the railway system further in alignment with global standards.

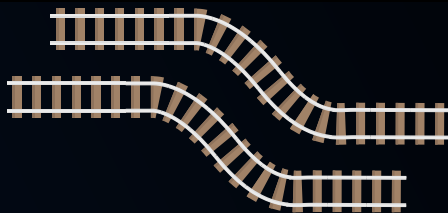
Over the years, several initiatives have been already been undertaken, encompassing various aspects such as Modern Technology, State of the Art Infrastructure, Quality Passenger Amenities, Modern Stations, Enhancing Freight Revenue, New Made in India Train Sets- Vande Bharat Trains, Enhanced Safety Measures & Technologies {e.g. Kavach}, New Tracks, Mega Electrification Drive, Infrastructure upgradation, Fast tracking of Redevelopment of Stations-Amrit Bharat scheme, Gati-Shakti Plan – National Master Plan for multi-modal connectivity , Major Capex allocation in budgets and many more growth initiatives.

Indian Railways' journey towards becoming a key player in India's vision of "Viksit Bharat" is multifaceted and while several advancements have already been made, there's a continued need for much more strategic planning to achieve the desired level of growth & modernization in line with global standards.

Based on the success of PHDCCI'S previous 10 Editions which brought together the Ministry & Decision Makers & all the Relevant Stakeholders to showcase & disseminate information regarding the various opportunities & challenges & explore new business avenues (National & International Industry ) on one platform, PHDCCI is organising its:

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## Programme Highlights
















-  Opening new avenues for learning about the modern technologies
-  Focus on Continuous modernisation and expansion of Indian Railways
-  Alignment with the Global Business Environment and Trends shaping the industry
-  New Opportunities for forging business linkages and partnerships
-  Showcasing & Networking with new target audience for B2B & B2C & B2G opportunities
-  Presentations by leading technology/solution providers & the Industry
-  Felicitations of Industry Stalwarts

# FOCUS SECTORS

## A. KEYNOTE SESSION: INDIAN RAILWAY'S PERSPECTIVE & INITIATIVES

-  Vision of Viksit Bharat: How the development of Indian Railways fits into the broader goal of achieving a "Developed India" by 2047.
-  Current Landscape -Policy Changes, Key Initiatives & Challenges
-  Network expansion & new infrastructure projects – Progress, Timelines & Business opportunities
-  PLI scheme & Key priorities for the next 10 years
-  Beyond Borders Rail Connectivity –New Rail Links

## B. RAPID STRIDES IN MODERN ROLLING STOCK IN INDIA

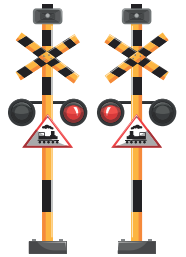
-  Technological Advancements In Rolling Stock & Rail Corridors
-  High Hp Electric Locos, High-Speed & Semi-High-Speed Trains Sets of IR
-  Indian Bullet Train, Vande Bharat, Vande Sleeper & Namo Bharat Trains
-  Improvement In SS Coaches Design
-  Grade And Induction Of Energy Efficient Aluminium Coaches– Reasons To Co-Exist
-  Policy update & plans for the PPP Model
-  Future Requirements of 6000x2=12000 HP & 9000 HP Electric Locomotives
-  NHRCL-Project Highlights, Key Challenges & Current Status
-  Recent Developments – PRIORITY Corridors & Future Corridors
-  Success of Vande Bharat, Namo Bharat & Amrit Bharat – Long & Short Journey Trains
-  Modern Rolling Stock Technologies, Innovations & Passenger Safety & Comfort Requirements
-  Modern & Hi-Speed Wagon Policy
-  Re-development of old LHB 'Anubhuti' & Tejas Coaches
-  Effective utilization/exports of Old Diesel Locomotives
-  Business Opportunities for the Indian Industry, Exports Potential

## C. ADVANCEMENTS IN RAILWAY FREIGHT TRANSPORTATION & LOGISTICS

-  Maximizing Railways Share in India's Freight Transportation
-  New Initiatives, Success So Far, and Way Forward
-  Industry Partnership Initiatives; Gati Shakti Terminals, Own Your Container
-  Terminal Scheme & others
-  Booming Indian Economy – Rising GDP
-  India's emergence as a Global Supply Chain Hub, Growing Freight Traffic
-  National Logistics Policy- Pros & Cons
-  Exponential demand created by the E-commerce Industry
-  Network Augmentation and Infrastructure development
-  **DEDICATED & OTHER FREIGHT CORRIDORS - BENEFITS TO THE INDUSTRY**
  -  Existing Corridors Functionality & New Corridors Planning/ Implementation
  -  Modern Infrastructure & Rolling Stock (Heavy & Long Haul, Anacondas)
  -  Deployment of Digital & Other Technologies, Wagon GPS, FOIS, RFID-based Tracking, for Higher Productivity, Availability & Reliability of Freight Traffic Operations.
-  New Parallel Railway Lines Abutting the Existing Railway Lines
-  Freight By Rail – Key Customers Perspective – Coal, Steel, Automobiles & Others
-  **GATI SHAKTI NATIONAL MASTER PLAN**
  -  Enhancing last mile connectivity – Port Linkages & Gati Shakti Terminals
  -  Modern Freight Terminals, Multimodal Logistics Parks, Own Your Container Terminal Scheme
-  EODB by Progressive Measures-Key Customer Partnerships with Benefits, Issue of Overloading & Underloading Punitive Charges; POLA, EHC
-  Steps & Initiatives to attract Road Freight Users towards Railways

## D. SMART RAILWAYS - EMERGING TECHNOLOGIES IN SIGNALING, TELECOMMUNICATIONS, SAFETY, SURVEILLANCE & PREDICTIVE MAINTENANCE INCLUDING AI

- Advancements In Signalling, Telecom, Electrification Systems for Improved Operation
- KAVACH 4.0 / 5.0 Collision Avoidance Systems & Beyond
- Innovation & Indigenous Development of Modern Safety & Surveillance Systems for preventing collisions
- TETRA/ GSM-R/ 5G/ 4G/ BLE Enhanced Communication Systems: Status & Way Forward
- RFID / AI-enabled, IP-based CCTV Camera Systems for Passenger Coaches, Driver Alert (RDAS), Loco mounted Obstruction Detection & Wayside monitoring, Smart Yards & other technologies.
- Emergency Response Management: Improving Emergency Protocols with Digital Communication Tools that allow Quicker Decision-making in case of an Incident.
- Role of RDSO in Implementation of New Technologies & push for 'Make in India' Initiatives
- Implementing Advanced Traffic Management Systems
- Incorporation of Artificial Intelligence, Data Analytics, Blockchain & Big Data technologies
- Passenger Infotainment Systems, Ticketing System Upgrades (AFC, Unified System)
- Global Railway Technology Trends & Opportunities for a Collaborative Roadmap
- Digitalisation of IR, and AI Innovations by Start-Ups
- Smart Coaches with OBCMS, IoT based Remote Monitoring System & Predictive Maintenance



## E. REVOLUTIONIZING SMART RAIL INFRASTRUCTURE- UPGRADATION & EXPANSION

- ↪ OHE, TRACKS, BRIDGES, TUNNELS SUITABLE FOR 200KMPH+
- ↪ Capex-Oriented Development Of Indian Railways' Infra; ₹12 Lakh Crore Fresh Impetus For Network Growth In 2025
- ↪ Innovations & Advancements in Civil Construction Techniques & Methodologies, focussed on Railway Viaducts, Hi-Speed Tracks & Others sectors.
- ↪ Long Welded & Head Hardened Rails, High-Rise OHE, especially 2x25 kV for High-Speed & Long-Haul Mainline Rail Traffic
- ↪ Ballastless Tracks (for Bridges ), High-Speed Suited Modern Track Fastening Systems
- ↪ Mechanised Installation Maintenance of Permanent Ways & Overhead Catenary
- ↪ Reliability & Availability of Overhead Equipment (OHE) Systems by Sensors & AI-enabled Camera Systems' based Digital Monitoring of Pantograph
- ↪ Flash Butt Welding & Ultrasonic Flaw Detectors
- ↪ Smart Tracks with Sensors & Track Monitoring & Maintenance via new technologies
- ↪ Use of Drones & Sensor Tech. to Monitor Structural Health (SHM)/ Defects in Tracks, Tunnels & Bridges, for doing Preventive & Predictive Maintenance, more effectively
- ↪ Development of Amrit Bharat Stations & Railopolis; Emergence Of Vibrant, Sustainable & Interconnected Urban Centres (TOD)
- ↪ Building Long & Short Tunnels, and Tall & Semi-Tall Bridges in Difficult Terrains
- ↪ Case Study-World's Tallest Chenab Railway Bridge and Longest T-50 Tunnel of USBRL, Jammu
- ↪ Issues in Fast-track Building of Rail Infrastructure and Policy Support Required: Railways and Contractors Perspectives
- ↪ Upcoming Opportunities For The Industry In This Sector

## F. FUTURE OF MOBILITY IN INDIA @ VIKSIT BHARAT 2047-STRENGTHENING INDIA'S RAIL INFRASTRUCTURE TO GLOBAL STANDARDS

- Sustainable Growth Via Green Rail Transport
- National Rail Plan And National Investment Pipeline (NIP)
- Emerging Modes Of Transit - Light Rail Transit, Electric Trolley Bus, Automatic People Mover , Metro, RRTS, Hydrogen Trains & Hyperloop- Feasibility check
- Development of 12 New Industrial Areas on Existing Industrial Corridors & Nodes, aligned with NHAI Expressways & Indian Railway Trunk Lines
- Decarbonisation and Net Zero Target of Indian Railways: By 2030, And 'Net Zero' Target of INDIA: By 2070
- Indian Railways - A Big Catalyst Of Carbon Footprint Reduction - 100% Electrification & Switch To Electric Traction, Solar Power & Wind Power to Power Stations, Railway Buildings, Run Trains, and Other Measures
- Smarter Solutions for Sustainable Urban Transit Systems & Infrastructure Implementation

- Integrated Transport Planning - Role Of Metro Projects In Multimodal Transport Integration
- Overcoming Challenges During Integrating New Systems With Legacy Infrastructure, and Ensuring Seamless Operations/Inter-Operability Between Old & New Technologies
- Regulatory and Standardization Issues: Navigating Regulatory Frameworks governing Infrastructure & Operations of Railways, to ensure Interoperability across Countries
- Enhancing Passenger Experience; Comfort & Convenience, Fire Safety, Mobile Charging, Vacuum Toilets, Seats & Berths, High Riding Index & Higher Crash- worthiness Couplers & other initiatives
- Land Acquisition & New avenues of revenue generation
- "PURVODAYA SE DESH KA UDAY" - Contribution Of Indian Railways In Realising This Vision

## EMINENT INVITED SPEAKERS & PARTICIPANTS

- Ministry of Indian Railways
- Railway Zones
- Ministry of Commerce & Industry
- NITI Aayog & DPIIT
- Ministry of Steel, Coal, Power, MNRE, MoEF
- Relevant Ministries/ Government Agencies & Policy Makers
- State Transport Department Representatives
- Ambassadors , Diplomats & International Railway Associations
- International Organisations, Rail Associations, & Experts
- RDSO/ COFMOW/ RITES/ RVNL/ RAILTEL / CRIS/ IRFC
- DFCCIL / NHSRCL / IRSDC/ IRCTC / RDLA/ CONCOR/ CWC /CRWC
- IRCON / KRCL/ MRVC/ RCIL/ KRDCL/ DMIC/ DMRC
- World Bank/ ADB Bank / JICA / JETRO PSU Heads & Private Companies
- Manufacturers / Equipment Manufacturers & Suppliers
- Signalling Companies / Experts/ Engineers & Technocrats
- Technology Providers & Organisations
- Railways Service Providers / Safety / Security & Traction Experts
- Power and Renewable Energy Companies
- Locomotives/ Rolling Stock/ Container Manufacturers & Designers
- Infrastructure Companies & Developers, Constructions Firms & Real Estate
- Companies
- Engineering Firms, Architecture and Consulting Firms
- Potential Investors / Infrastructure Financing Institutions/Contractors
- Financial & Funding Institutions- Banking & Non-Banking
- Roads/ Ports/ Heavy Industries
- Related Freight Consumers -Steel, Coal,Automobile, Agricultural products
- Potential Private Rail Operators / Port operators / ICD's/ MML
- Consultants ; Industry Analysts & Experts - National & International
- Warehousing companies, Container leasing handling Firms
- Freight Forwarders /Service Providers/ Logistics Firms & Transporters
- Legal firms & The Big 4 Companies
- All Relevant National & International Stakeholders



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## GLIMPSES OF PREVIOUS EVENTS



## PARTNERSHIP & EXHIBITION OPPORTUNITIES AVAILABLE

**For Speaker/ Partnership / Other Opportunities please contact:**

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