



INDIAN RAILWAYS DEVELOPMENT FROM 1947 TO 2026

A Step-by-Step Journey of National Expansion, Technological Transformation and Global Competitiveness



1970s

DIESEL ERA

Expanding Reach, Strengthening Lifeline

1990s

ELECTRIC ERA

Electrification for Efficiency & Growth

2000s

RAJDHANI ERA

Speed, Comfort & Passenger Delight

2010s

METRO ERA

Urban Mobility, Smarter Cities

2020s

VANDE BHARAT ERA

New Generation Trains, New India Momentum

2020s

FREIGHT CORRIDOR ERA

Dedicated Corridors, Powering Prosperity

2026 AND BEYOND

SMART & SAFE ERA

Technology-Driven, Sustainable & Future-Ready

KAVACH
ENABLED



Connecting
Independent India



Advancing
Indigenous Technology



Modernising
National Mobility



Building a
Future-Ready Railway

**From Steam Power to Smart Mobility —
India's Railway Transformation**



Viksit Bharat
2047



Make in India



Net Zero
2070



Digital India



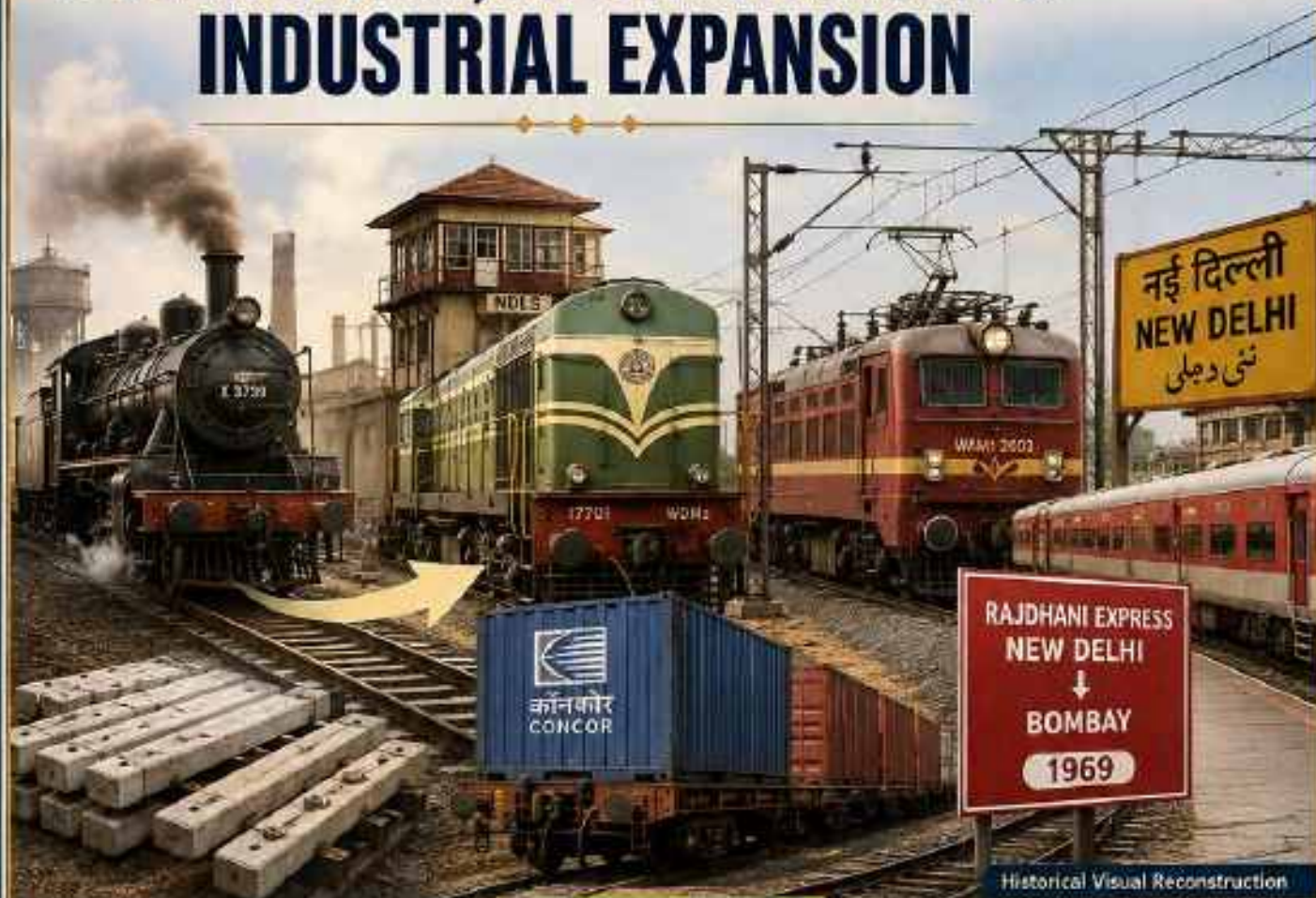
Vision Zero

INDIAN RAILWAYS DEVELOPMENT FROM 1947 TO 2026



STAGE II • 1960–1970

DIESELISATION, ELECTRIFICATION & INDUSTRIAL EXPANSION



Historical Visual Reconstruction

MILESTONES



Diesel Locomotive Works — 1961



Electric Traction Expansion



First Container Service — 1966



Rajdhani Express — 1969



Modern Traction • Stronger Industry • Faster Intercity Travel



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STAGE I • 1947–1960

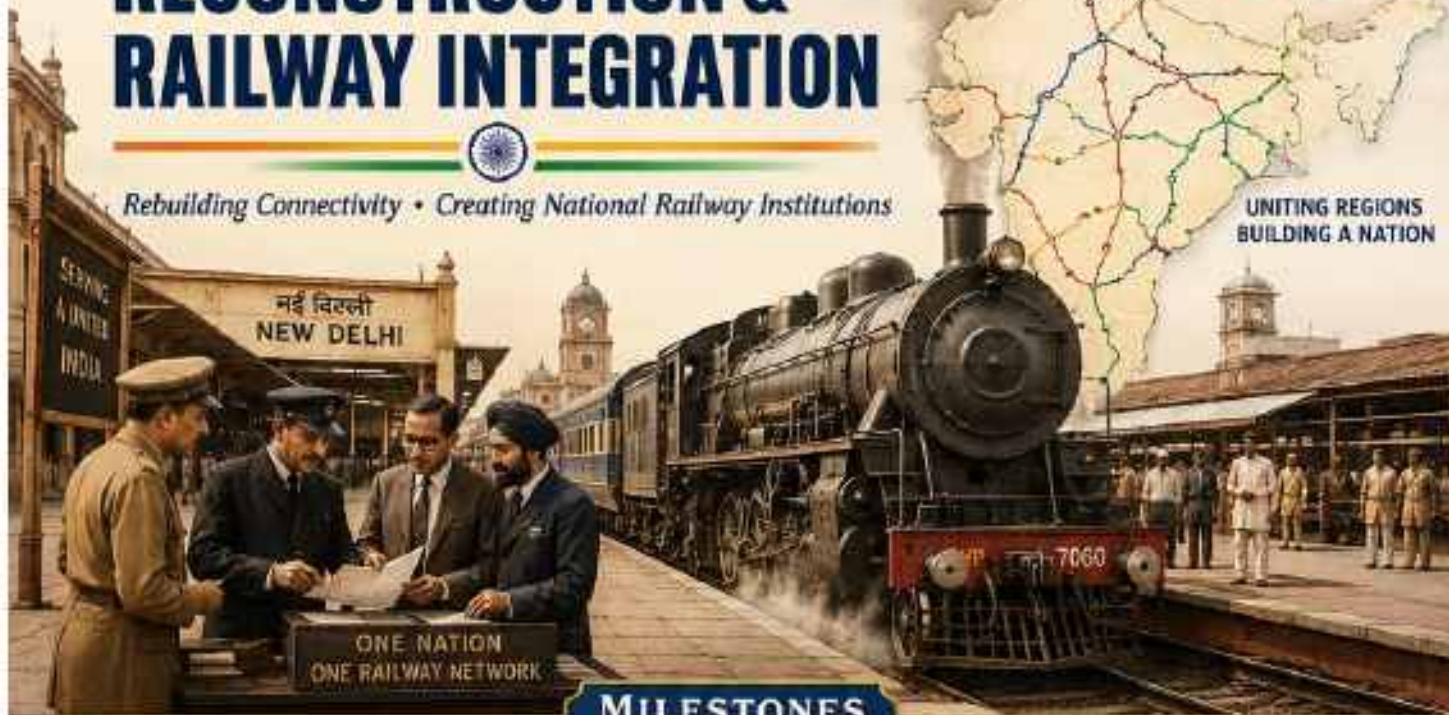
NATIONAL RECONSTRUCTION & RAILWAY INTEGRATION



Rebuilding Connectivity • Creating National Railway Institutions



UNITING REGIONS
BUILDING A NATION



MILESTONES

1 Railway Zonal Reorganisation



Creating a unified and efficient administrative structure for a growing nation.

2 Chittaranjan Locomotive Works — 1950



Birth of India's first major locomotive manufacturing plant at Chittaranjan.

3 Integral Coach Factory



Building durable steel coaches indigenously for a stronger, safer passenger experience.

4 RDSO — 1957



Establishing India's premier railway research body for innovation & standards.



TRACK
EXPANSION



STEAM
POWER



SIGNALLING
IMPROVEMENTS



BRIDGE &
INFRASTRUCTURE



WORKSHOPS
MODERNISATION



PEOPLE &
INSTITUTIONS

Historical Visual Reconstruction



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STAGE IV • 1980–1990

COMPUTERISATION, METRO RAIL & FASTER PASSENGER SERVICES



MILESTONES



Kolkata Metro — 1984



Computerised Reservation — 1985



Shatabdi Express — 1988



CONCOR — 1988

Urban Mobility • Digital Reservations • Modern Intercity Travel



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INDIAN RAILWAYS DEVELOPMENT

FROM 1947 TO 2026

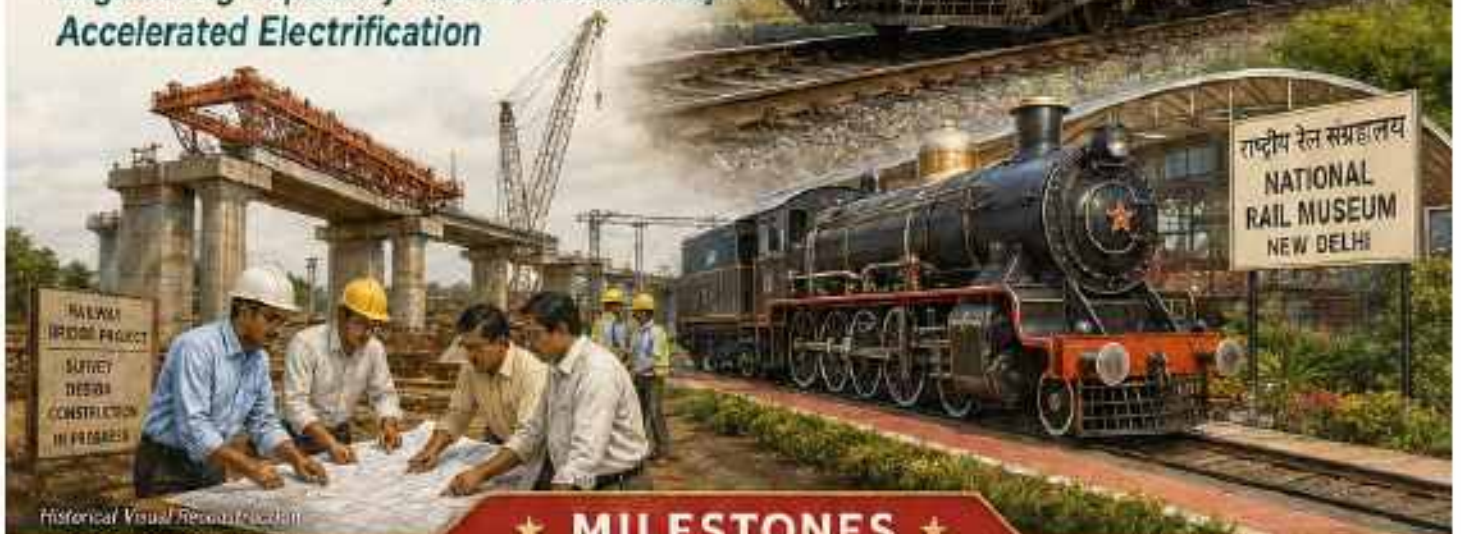


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STAGE III • 1970–1980

CAPACITY BUILDING, INSTITUTIONS & ELECTRIFICATION

Engineering Capability • Global Consultancy •
Accelerated Electrification



Historical Visual Reconstruction

★ MILESTONES ★



Steam Production
Ends — 1973



RITES — 1974



IRCON — 1976



National Rail
Museum — 1977



CORE — 1979



This is an educational infographic series highlighting key developments in Indian Railways.
No official endorsement is claimed or implied.



UNIGAUGE, NETWORK UNIFICATION & MAJOR ENGINEERING

One Gauge • Seamless Connectivity •
Engineering Across Difficult Terrain



Konkan Railway in Monsoon
— Historical Visual Reconstruction

KEY MILESTONES



Unigauge Policy — 1992

National policy to adopt broad gauge as the standard gauge across India for future growth and capacity.



Broad-Gauge Conversion

Large-scale conversion of metre and narrow gauge routes to broad gauge for seamless nationwide connectivity.



Konkan Railway

Built across the Western Ghats with tunnels, viaducts and bridges, opening new horizons of connectivity.



Darjeeling Himalayan Railway UNESCO — 1999

DHR inscribed as a UNESCO World Heritage Site—a global recognition of our living rail heritage.

BROAD-GAUGE CONVERSION WORK — Historical Visual Reconstruction



TOWARDS A UNIFIED NETWORK



ONE NETWORK
ONE NATION

DARJEELING HIMALAYAN RAILWAY — Historical Visual Reconstruction



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STAGE VII • 2010–2020

HIGH-CAPACITY CORRIDORS, DIGITAL SERVICES & MISSION-MODE MODERNISATION



KEY MILESTONES



**Dedicated
Freight Corridors**



**Station
Redevelopment**



**Mobile &
Digital Services**



**Passenger
Experience**



**Vande Bharat
Express – 2019**



Creating Capacity • Improving Experience • Advancing Indigenous Trainsets



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INDIAN RAILWAYS DEVELOPMENT FROM 1947 TO 2026

STAGE VI • 2000–2010



INTERNET TICKETING, MODERN COACHES & PASSENGER REFORM

Digital Access • Safer Coaches •
Modern Urban Mobility



139 TRAIN ENQUIRY



TRAIN ENQUIRY



One Number.
All Information.
Nationwide Access.

DELHI METRO GROWTH



दिल्ली मेट्रो
DELHI METRO

Faster • Safer • Smarter

KASHMIR VALLEY RAIL BRIDGE



Engineering Excellence.
Connecting Valleys.
Uniting India.

NORTHEAST CONNECTIVITY



Building New Lines.
Bringing People Closer.
Strengthening the Nation.

MILESTONES



Internet
Reservations &
E-Ticketing



139
Train Enquiry



LHB Coach
Expansion



Delhi Metro
Growth



Strategic
Regional
Connectivity





STAGE VIII • 2020–2024

ACCELERATED ELECTRIFICATION & GREEN RAILWAY TRANSFORMATION

Cleaner Traction • Greater Efficiency • Sustainable National Mobility



REGENERATIVE BRAKING Energy returned to the grid	WATER CONSERVATION Rainwater harvesting & RO water plants at stations	WASTE SEGREGATION Swachh Stations, Swachh Environment	MECHANISED TRACK MAINTENANCE High productivity with precision & safety	ELECTRONIC INTERLOCKING Enhanced safety, greater reliability	BRIDGE MONITORING Real-time structural health monitoring
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KEY MILESTONES (2020–2024)

Broad-Gauge Electrification - Rapid expansion of electrification on broad-gauge routes - Reduced dependence on fossil fuel - Lower emissions & greater efficiency	Solar & Energy Efficiency - Rooftop solar at stations & service buildings - Energy-efficient lighting, fans & appliances - Smart energy management systems	High-Horsepower Electric Freight - Deployment of 12,000 HP electric locomotives - Higher haulage capacity - Lower logistics cost & reduced carbon footprint	Vande Bharat Expansion - Expansion across new routes & regions - Faster, safer & more comfortable travel - Symbol of New India Railways	Modern Safety Systems - Kavach deployment across network - Automatic Train Protection - Passenger safety as top priority
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INDIAN RAILWAYS: BUILDING GLOBAL COMPETITIVENESS

Scale • Manufacturing • Engineering • Digital Intelligence

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AI-POWERED PREDICTIVE MAINTENANCE



- Real-time Monitoring
- Fault Prediction
- Reduced Downtime
- Higher Reliability



OUR SIX STRENGTHS

- Indigenous Manufacturing
- High-Capacity Freight
- Modern Trainsets
- Engineering Consultancy
- Digital Operations
- Skilled Workforce

DELIVERING INDIAN RAILWAY SOLUTIONS GLOBALLY



From Technology Adoption to Technology Leadership



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India



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India



Vision
Zero

Approximately 25,000 Trains Daily • Expanding Freight Capacity • Growing Domestic Production



STAGE IX • 2024–2026

KAVACH, FREIGHT CORRIDORS & INDIGENOUS RAILWAY TECHNOLOGY



AMRIT BHARAT STATION SCHEME



Modern Amenities Accessibility Passenger Convenience

GATI SHAKTI CARGO TERMINALS



Multi-Modal Connectivity Faster Turnaround Lower Logistics Cost

VANDE BHARAT, AMRIT BHARAT



VANDE BHARAT

AMRIT BHARAT

VANDE BHARAT SLEEPER

MILESTONES



Kavach
Automatic Train
Protection



Eastern &
Western DFCs



Amrit Bharat
Station Scheme



Gati Shakti
Cargo Terminals



Vande Bharat &
Amrit Bharat



RailOne
Digital Platform

RAILONE DIGITAL PLATFORM



Indigenous Safety • High-Capacity Infrastructure • Integrated Digital Mobility



VIKSIT
BHARAT 2047



MAKE IN
INDIA



NET ZERO
2070



DIGITAL
INDIA

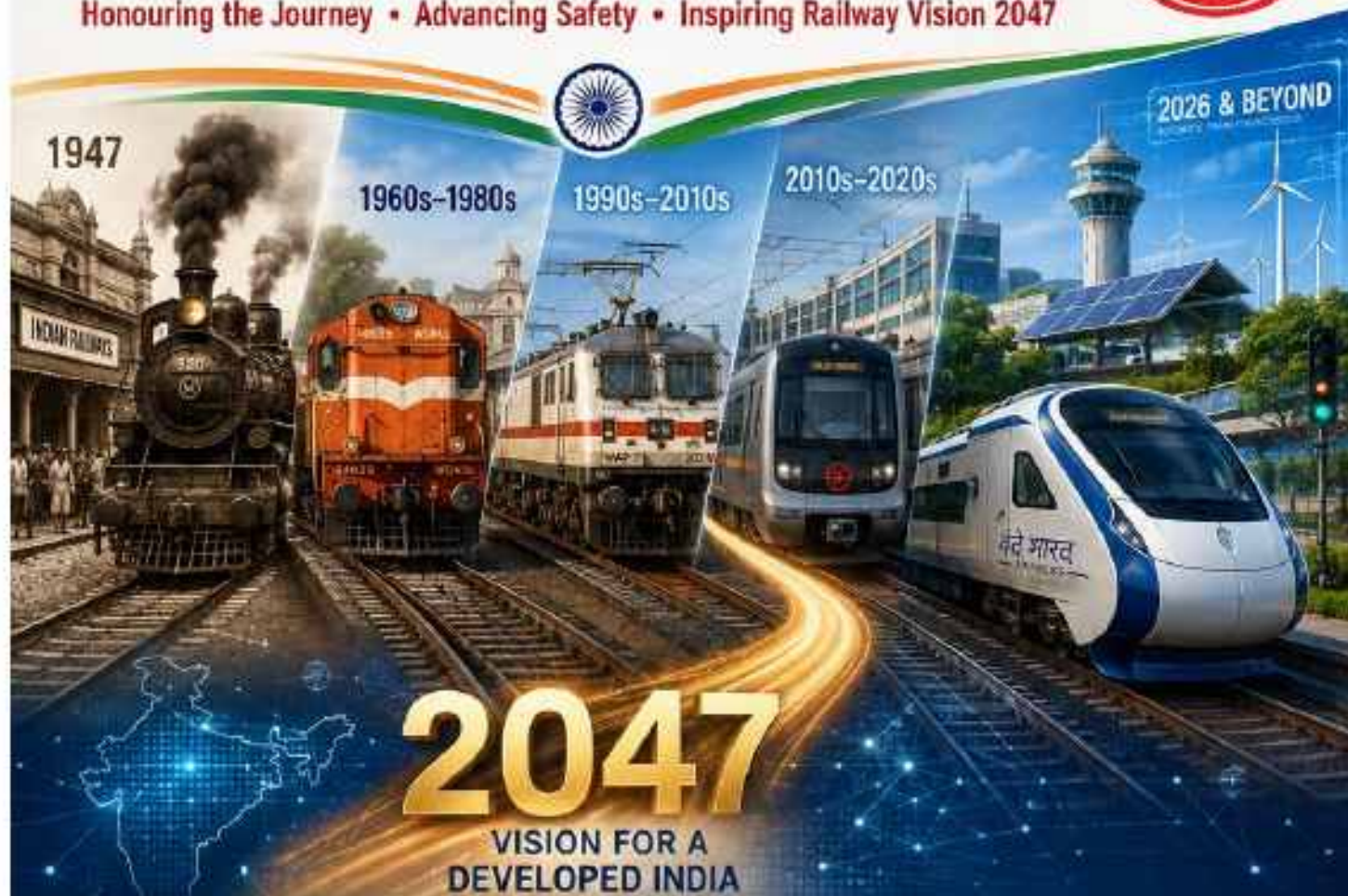


VISION
ZERO

INDIAN RAILWAYS

1947-2026: A NATION IN MOTION

Honouring the Journey • Advancing Safety • Inspiring Railway Vision 2047



FIVE FUTURE PRIORITIES



Safety First



Smart
Infrastructure



Sustainable
Mobility



Inclusive
Passenger Service

Connecting India's Past • Transforming the Present • Building the Railway Future



Dr. R. Padmanabhan

Chairman, All India Rail Safety Council (AIRSC)



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