

Shri Narendra Modi
Hon'ble Prime Minister



NEW RAILWAYS
NEW DELHI



(2014 - May 21)



Desh ko Gati rail se
Pragati bhi rail se

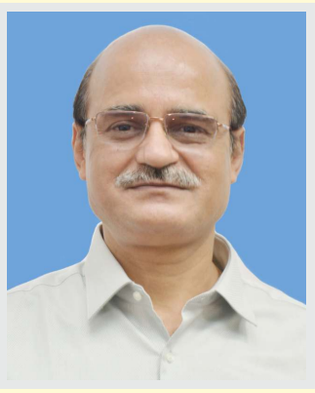
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सत्यमेव जयते

PREFACE



Ashutosh Gangal
General Manager
Northern Railway

Indian Railways is the lifeline of the nation and catalyst for India's progress and economic development. Railway has been providing comfortable, convenient and easy on the pocket transportation system to its patrons. Major infrastructure projects in Railways has focus on safety, enhancing speed and connecting far flung areas. New tracks are being laid. Line doubling and electrification works are in full swing. Latest technologies, digitalization and in house innovations are being used to bring more efficiency and better results. Emphasis is also on creating better business opportunities through long haul and piecemeal trains.

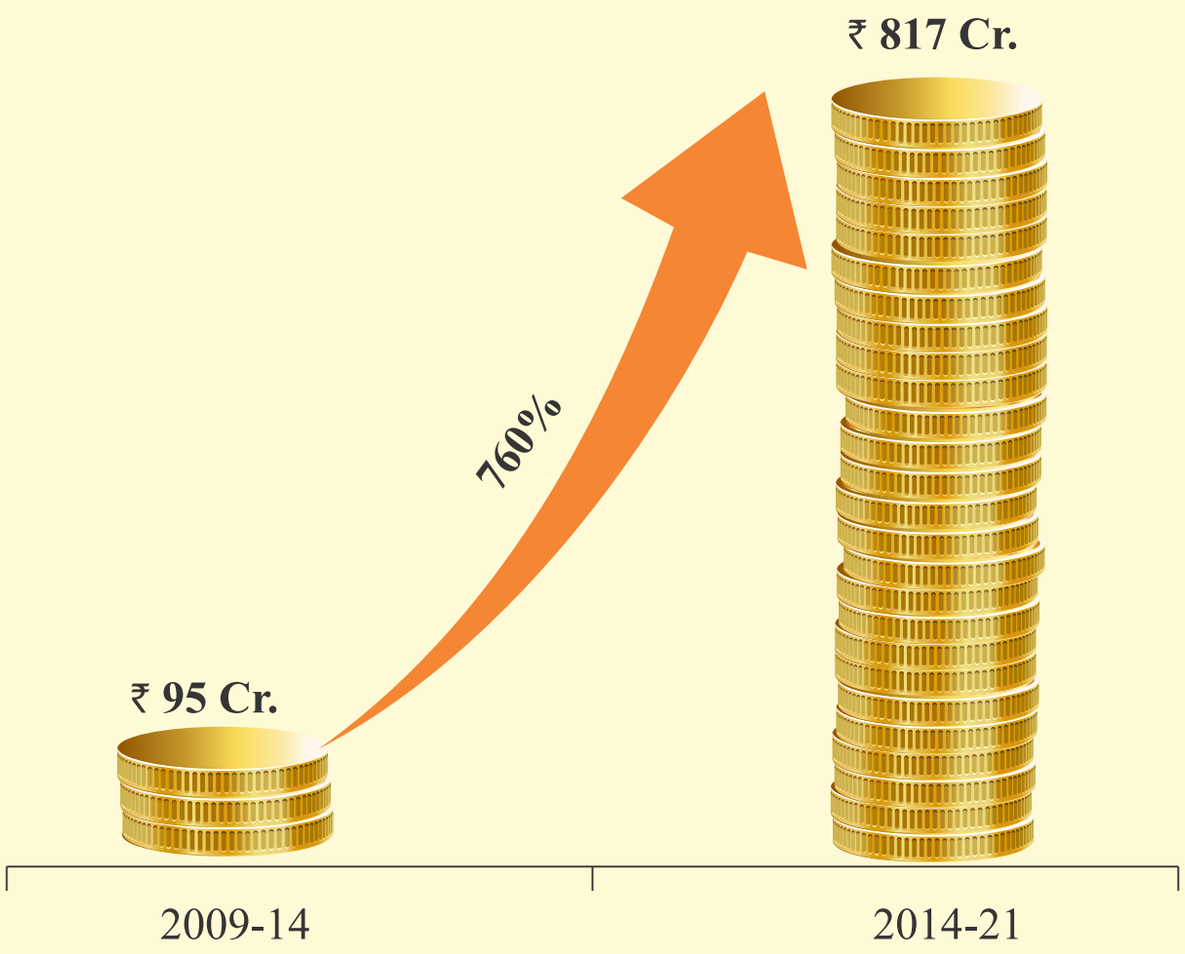
The officers and staff of the Railways are dedicated, ready to adapt to changing scenario of the transport sector, this booklet is aimed towards listing some of the important activities involving in the recent past as well as current projects in Delhi. The budgets allocated to various projects are not apportioned State wise but reflect the cost of the project.

CAPITAL INVESTMENT

❖ Investment over rail network in Delhi has increased by more than 8 times during 2014-21 as compared to the period 2009-14

Average Annual Budget Outlay		
2009 - 14	**2014 - 21**	**% Increase**
₹ 95 Cr.	₹ 817 Cr.	+760%

❖ The Average Annual Outlay of Railways in Delhi increased by 760%



INFRASTRUCTURE THRUST

- 5 Projects related to New line/Doubling with an aggregate length of approx. 294 Km at a total cost of ₹ 3,490 Cr.

NEW LINE PROJECTS

- Delhi - Sohna - Nuh - Ferozpur - Jhirka - Alwar Section at a cost of ₹ 1,239 Cr.
- Total length of the line is 104 Km
- Major stations involved - Delhi, Sohna, Nuh, Ferozpur, Jhirka and Alwar





Track Relaying Train (TRT)

INFRASTRUCTURE THRUST

Doubling Projects

- New Delhi - Tilak Bridge - 5th & 6th Line (3 Km) at a cost of ₹137 Cr. - completed
- Daya Basti - Grade Separator (3 Km) at a cost of ₹196 Cr.
- Anand Vihar - Tilak Bridge - 3rd & 4th Line (10 Km) at a cost of ₹ 418 Cr.
- Delhi - Ghaziabad - Meerut City - Tapri - Saharanpur (Deoband - Tapri) bypass Section (27.66 Km) at a cost of ₹ 1,500 Cr.



New Line on Delhi - Saharanpur section



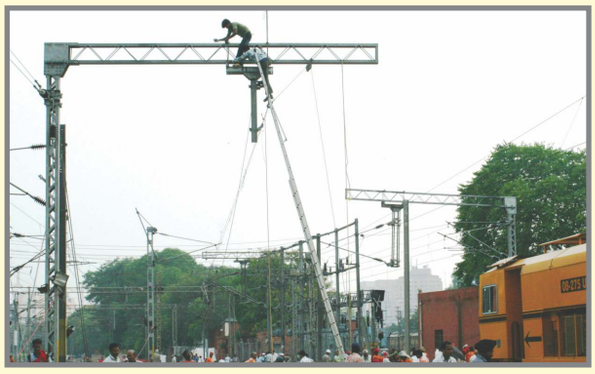
Daya Basti railway station

INFRASTRUCTURE THRUST

ELECTRIFICATION

Advantages

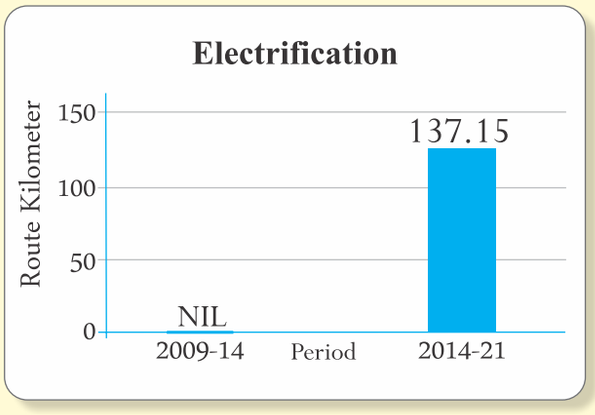
- Faster trains
- Environment friendly
- Fuel saving & lower energy costs



Laying Overhead Cables

During 2014-21

- Electrification of 14 Route Km
- Full Delhi area has been electrified



ROAD OVER BRIDGES (ROBs) & ROAD UNDER BRIDGES (RUBs)

Advantages

- Uninterrupted and safe movement of road traffic
- Improving speed of trains and enhancing passenger safety

During 2009-14

- 2 Road Over Bridges (ROBs), 2 Road Under Bridges (RUBs)

During 2014-21

- 2 Road Over Bridges (ROBs) and 8 Road Under Bridges (RUBs)

Other works in the pipeline

- 3 Road Over Bridges (ROBs) between Badli & Holambi Kalan and Level Crossings at Nangloi & Ghevra

CAPACITY ENHANCEMENT

CONSTRUCTION OF BRIDGES

- New Bridge over Yamuna River at Delhi being constructed at a cost of ₹ 137 Cr. to ease stress on the existing Lohe Ka Pul



New Bridge across Yamuna being constructed besides Lohe Ka Pul

WORKSHOP

- Augmentation of Shed Capacity at Ghaziabad from 175 to 200 locomotives, at a cost of ₹11 Cr.



Ghaziabad Loco Shed

PASSENGER FOCUS

INTRODUCTION OF NEW SEMI HIGH SPEED TRAINS

Vande Bharat Express: New Delhi - Varanasi

- India's first semi-high speed train set, manufactured indigenously at the Integral Coach Factory (ICF), Chennai in a record time of 18 months, under the Make in India initiative



Hon'ble Prime Minister, Shri Narendra Modi flagging-off the New Delhi - Varanasi Vande Bharat Express Train from New Delhi railway station

Vande Bharat Express: New Delhi - Shri Mata Vaishno Devi Katra

- Second Indigenously developed Semi High Speed Express Train



Hon'ble Union Home Minister, Shri Amit Shah, Hon'ble Union Minister of Health and Family Welfare, Dr. Harsh Vardhan and Hon'ble Union Minister of Railways, Commerce and Industry, Shri Piyush Goyal flagging-off the New Delhi - Shri Mata Vaishno Devi Katra Vande Bharat Express Train from New Delhi railway station

PASSENGER SECURITY

- Installation of X-ray machines at all major stations
- Deployment of Railway Protection Force personnel with metal detectors
- 53 CCTV camera installed at platforms having high footfall
- Sniffer Dog Squad deployed to check for explosives inside important trains
- 'Bhairavi'/Virangana Special team of Mahila Vahini squad of Railway Protection Force is deployed to travel on coaches for the security of women passengers
- 219 Touts and Unauthorized Ticket Vendors were apprehended in the period 2014-21 as compared to 143 apprehended during 2009-14
- A total of 7025 children were rescued and handed over to parents during 2014-21
- Deployment of additional security personnel as a special arrangement during the summer rush and 'Diwali - Chhath' festival seasons for better crowd management



CCTV installed on Platform at New Delhi



Sniffer Dog checking the Coaches

PASSENGER AMENITIES

- 30 Escalators commissioned at New Delhi, Delhi Jn., H. Nizamuddin, Delhi Sarai Rohilla etc.
- 11 Lifts commissioned at New Delhi, H. Nizamuddin, Delhi Sarai Rohilla etc.



Escalator at H. Nizamuddin railway station



Lift at New Delhi railway station

DEVELOPMENT OF STATIONS



Bijwasan railway station Master Plan

PASSENGER AMENITIES

- New construction, repairs and extension of Foot Over Bridges (FOBs) at New Delhi, Delhi Jn., Delhi Cantt., Delhi Sarai Rohilla, H. Nizamuddin, Khalilpur and Inchhapuri railway stations
- Renovation of parking cum circulating area at Nangloi, Delhi Jn. (2nd entry), H. Nizamuddin, Shakurbasti, Delhi Sarai Rohilla, Narela and Badli railway stations
- Renovation of platform surface at Delhi Shahdara, Patel Nagar, Adarsh Nagar, Anand Vihar, Delhi Sarai Rohilla, Delhi Kishanganj, Dayabasti, Narela, Badli, Shakurbasti and Delhi Shahdara railway stations
- Provision of 957 chairs at Delhi Jn., New Delhi, Adarsh Nagar Delhi, Delhi Kishanganj, Sabji Mandi, Delhi Shahdara, Delhi Cantt. and Anand Vihar railway stations under MPLAD scheme







Inauguration of newly constructed Foot Over Bridge (FOB) at Harkesh Nagar, New Delhi by Hon'ble Former Minister of State for Railways, Shri Manoj Sinha and MP, Shri Ramesh Bidhuri

FREIGHT OPERTIONS

- Development of New Terminal Building at a cost of ₹152 Cr. and New Coaching Terminal Phase-II at Anand Vihar at a cost of ₹ 126 Cr.
- Land Acquisition for development of Freight and Coaching Terminal at Bijwasan at a cost of ₹ 226 Cr.
- Coaching/freight handling terminal at Bijwasan at a cost of ₹ 92 Cr.
- Acquisition of land and development of world class Freight Terminal at Holambi Kalan at a cost of ₹ 125 Cr.
- Coaching Terminal at Shakurbasti at a cost of ₹ 111 Cr.
- Development of additional train handling facilities at Tilak Bridge Subzi Mandi, Sarai Rohilla, Shakurbasti, Ghaziabad, H. Nizamuddin and Tuglakabad at a cost of ₹ 120 Cr.



Freight Terminal

DIGITAL INDIA

Digital India
Power To Empower



FAST & FREE Wi-Fi

- To boost Digital India Initiative, Wi-Fi facility provided at H. Nizamuddin, Anand Vihar Terminal, New Delhi, Delhi Jn., Delhi Shahdara, Delhi Cantt., Delhi Sarai Rohilla, Adarsh Nagar Delhi and Ghevra railway stations

DIGITAL TRANSACTIONS

- Provision of 20 Point of Sale (PoS) Machines
- Cashless transactions can be made through BHIM, RuPay, Debit card, e-wallets etc. at ticket counters



Point of Sale (PoS) machine for cashless transaction at PRS

SWACHH RAIL, SWACHH BHARAT

- Deployment of additional staff for cleaning of platforms, tracks and station premises
- Dustbins provided at vantage points
- Mechanized cleaning of stations and coaches
- Provision of On-Board Housekeeping Services (OBHS) in running trains
- Launch of 'Clean My Coach' app
- Imposition of penalty for littering
- Organising Cleanliness drives from time to time in collaboration with voluntary organizations and NGOs
- Mechanized cleaning of laundry
- Educating the passengers through display ads in newspapers, radio and television, pamphlets, banners, nukkad nataks etc.



Mechanized Cleaning



Onboard House Keeping Services



Cleaning and Sanitization

GREEN INITIATIVES

During 2009-14

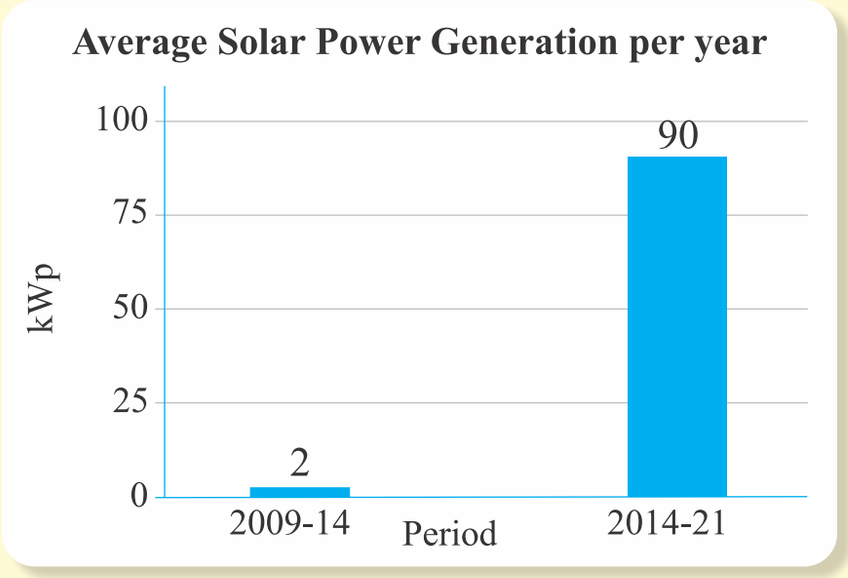
- Harnessing solar energy
  - 10 kWp solar modules provided
- LED lights
  - Nil



Coach with Rooftop Solar Panel

During 2014-21

- Harnessing solar energy
  - Provision of 362 kWp solar modules
  - Commissioning of 5 MWp solar plant on PPP basis at a cost of ₹ 4 per unit at New Delhi, H. Nizamuddin, Delhi & Anand Vihar Terminal stations
  - Annual saving of 73 Lakh units amounting to ₹ 435 Lakh
  - Reduction in CO_2 emission by 5,846 Ton
- Solar panels provided at 5 stations and 8 service buildings
- Provision of LED lights across all 14 stations in Delhi Area for energy conservation (100% coverage)



COVID-19: PASSENGER FOCUS

Shramik Special Trains

- Operation of 254 Shramik Specials trains during the Covid-19 lockdown enabling migrant workers, pilgrims, tourists, students and other people to reach their homes





Special Passenger Trains

- Operation of 132 Mail / Express, Rajdhani Special and Workman Special Trains from Delhi Area



COVID-19: INNOVATIVE USE OF ASSETS

Production of PPE Kits, Masks and sanitizer

- Jagadhari Workshop developed a WHO standard PPE kits approved by DRDE Gwalior
- More than 90,000 PPE kits have been manufactured at half the market price to support the healthcare workers and frontline staff
- 834 litre sanitizer produced in-house for mass distribution
- Installation of 75 hands-free washbasins
- 50 contactless soap/sanitizer dispensers made
- Development of touchless temperature measuring devices



Isolation Coaches

Unique bid to create additional quarantine facilities to bolster country's healthcare infrastructure to tackle Covid-19 Pandemic

- Conversion of Mobile Non AC rail coaches to isolation wards
- Cost-effective interim medical facility for semi-urban and rural areas
- 16 patients can be accommodated per coach
- Indian style toilet on one side converted to bathroom
- Arrangement of separate space for paramedics
- Each compartment provided with additional electric ports and fans
- Provision of oxygen cylinders



COVID-19: HEALTHCARE

Conversion of Coaches into Covid Care Centres

- 503 isolation coaches placed in Delhi Area
- Interim Healthcare facility
- 8048 beds available for Covid patients
- Coaches acting as an extension of Covid care hospitals
- Provision of wholesome nutritious meals by Indian Railways







COVID-19: HEALTHCARE

Shakurbasti Covid Care Centre

- 50 isolation coaches placed at Shakurbasti railway station
- 590 persons have been admitted for treatment
- Provision of wholesome meals three times a day
- Alarm system installed in all coaches









COVID-19: FREIGHT OPERATIONS

Freight Trains

- Registered freight loading of 33.40 Million Tonnes
- Movement of 18.74 Million Tonnes foodgrain to different states for distribution through PDS ration shops
- Constitution of long haul 5000 Tonne Jumbo trains - Annapurna, Amba and Antyodaya



'Doodh Duranto' milk train

- Operation of time tabled Parcel and Freight trains for delivery of essential goods
- Special milk train 'Doodh Duranto' from Andhra Pradesh
- Operation of 24 Parcel Cargo Express trains to various destinations
- A 24 tonne parcel van leased to e-commerce major Amazon for movement of consignment to Bangalore
- Revenue generation of ₹ 3.46 Cr. through movement of e-commerce consignment

Freight Business Development Units (BDU)

- BDU's set up at zonal and divisional levels for increasing freight business of Railways
- 44 Goods Sheds identified for upgradation
- 'Vyapar Mala', first ever special express train for piecemeal freight operated from Guniana - Delhi Kishanganj - Jiribam (Tripura), earned over ₹ 94 lakh from this BDU initiative



Providing enhanced facilities at goods sheds

- Time tabled, Efficient and Economically Viable Railway Services (TEEVRA) operated for provision of customized transportation solutions to medium and small businesses
- Digitalization of processes for ease of doing business

COVID-19: INFRASTRUCTURE THRUST

Increase in Sectional Speed

- New Delhi - Ghaziabad - Chipyana Buzurg section (from 110 Kmph to 130 Kmph)
- New Delhi - Tuglakabad section (from 120Kmph to 130Kmph)
- Delhi Jn. - Sahibabad section (from 100 Kmph to 110 Kmph)



Maintenance of Electric Traction

- Maintenance of 4572 Km Electrified Track OHE system
- Replacement of 1.47 Km over-aged and weak catenary wire



COVID-19: INFRASTRUCTURE THRUST





Track Monitoring & Repair



Use of state-of-art UNIMAT and Tamping Machines for renovation of tracks





Rehabilitation of Bridges

SHOWCASING OUR HERITAGE



Hon'ble Former Minister of State for Railways, Shri Rajen Gohain participating in the Heritage Run of Fairy Queen, the oldest running steam locomotive in India on 26th January, 2018



National Rail Museum, New Delhi



'Azad' hertiage steam locomotive




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