

SERVICE TO THE NATION

150TH BIRTH ANNIVERSARY OF MAHATMA GANDHI

4 YEARS | ACHIEVEMENTS AND INITIATIVES OF
MINISTRIES OF RAILWAYS AND COAL

GOVERNMENT OF INDIA, 2018

TOWARDS NEW INDIA

VISION 2022



“ Be the change that you want to see in the world ”
Mahatma Gandhi
(1869–1948)

02

The painting on the cover commemorates Mahatma Gandhi, who widely traveled across India on Indian Railways to spread the message of Freedom and Truth.
It was painted by P. Shyam Sundar Achary, who is a member of Staff working in the General Administration department, East Coast Railway

03

Taking inspiration from Mahatma Gandhi's ideals that led the Nation to Independence, Hon'ble Prime Minister Shri Narendra Modi has given a vision of a New India by 2022, coinciding with 75 years since Independence. The Ministries of Railways and Coal are firmly committed to creating New India and taking the country to greater heights of progress and prosperity.

“ The Indian Railways will become the growth engine of the nation's Vikas Yatra ”
Narendra Modi
Prime Minister

03

SAFETY REIGNS SUPREME



2013-14

Consequential
train accidents
reduced to
62%



2017-18

HIGHEST PRIORITY
TO SAFETY

BEST EVER SAFETY RECORD IN 2017-18

“A correct diagnosis is three-fourths the remedy”

— Mahatma Gandhi

SPEEDY EXECUTION OF RAIL RENEWALS

50% increase in rail renewal from 2,926 Kms in 2013-14 to 4,405 Kms in 2017-18

TOTAL SWITCHOVER TO PRODUCTION OF SAFER LHB COACHES



1.1 LAKH SAFETY POSTS BEING FILLED-UP THROUGH RECRUITMENT

SAFETY REIGNS SUPREME

RASHTRIYA RAIL SANRAKSHA KOSH (RRSK)

Fund of ₹ 1 Lakh Cr created for safety expenditure
₹ 16,000 Cr already spent

FOOT OVER BRIDGES (FOBS) NOW TREATED AS SAFETY ITEMS

221% increase in FOBs constructed per year from 23 during 2009-14 to 74 during 2014-18

WORKING HAND IN HAND WITH THE ARMY

3 Foot Over Bridges (FOBs) at Elphinstone Road-Parel, Curry Road, and Ambivali in Mumbai constructed with the help of the Army

CCTV/VIDEO SURVEILLANCE SYSTEMS BEING INSTALLED IN ALL STATIONS AND TRAINS

HIGHEST EVER CONSTRUCTION OF ROAD OVER BRIDGE/ROAD UNDER BRIDGE/SUBWAYS

3 times increase in average construction per year

415 per year



2004-14

1220 per year



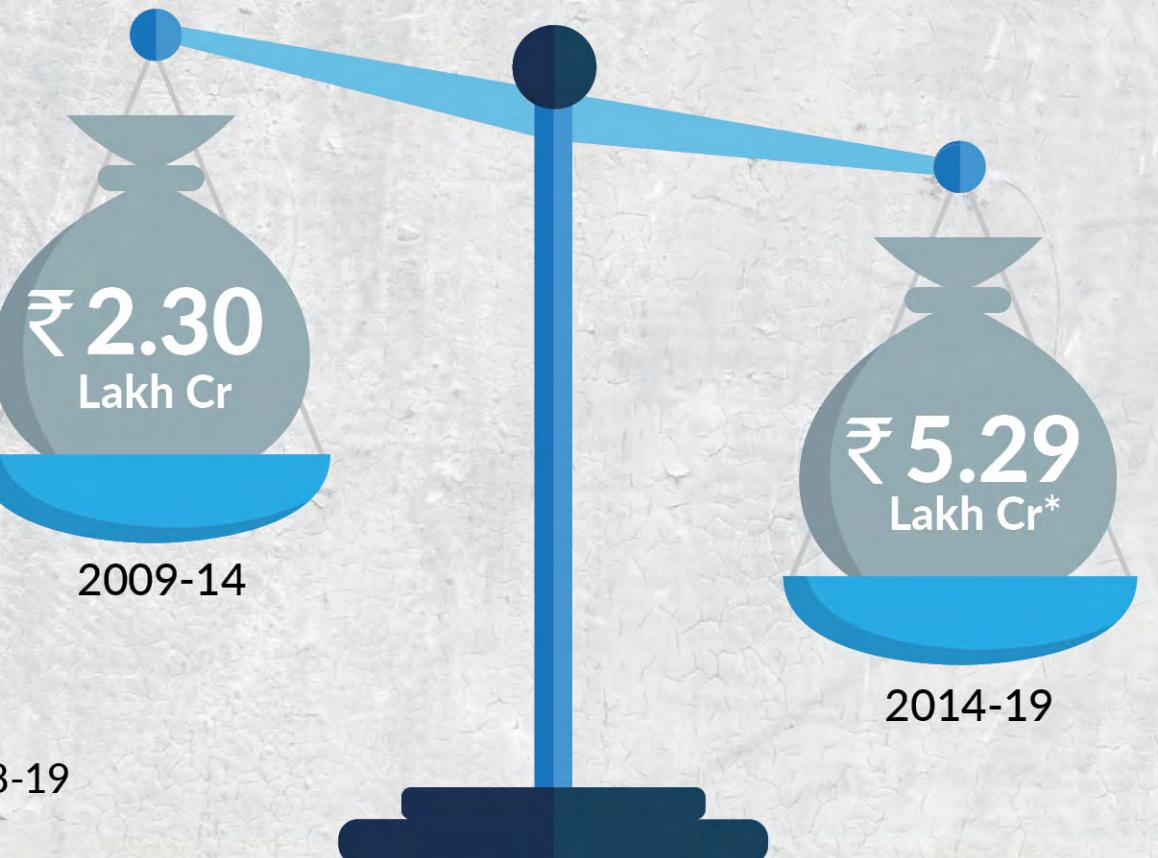
2014-18

5,479 UNMANNED LEVEL CROSSINGS ELIMINATED IN THE LAST FOUR YEARS

All UMLCs on major routes to be eliminated by June 2018

QUANTUM LEAP IN CAPITAL EXPENDITURE

Average annual capital expenditure in 2014-19 is more than double of average during 2009-14



*Includes Budget Estimate 2018-19

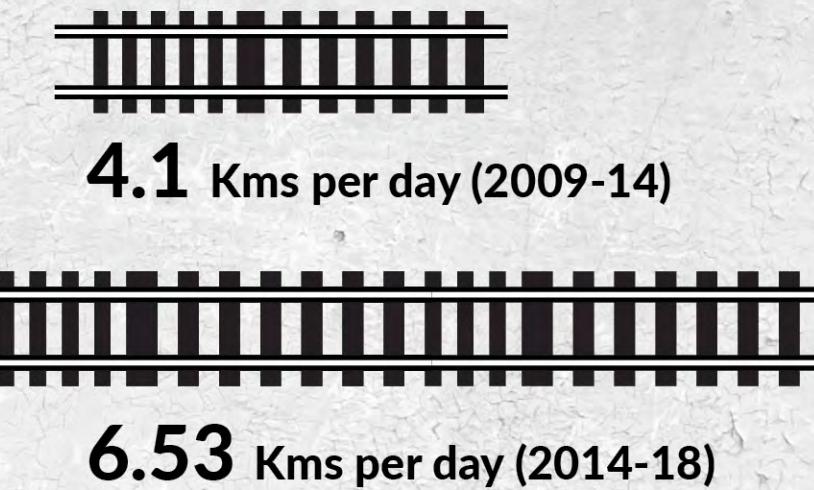
“Man is the maker of his own destiny, and I therefore ask you to become makers of your own destiny”

— Mahatma Gandhi

CAPACITY ENHANCEMENT: BUILDING INFRASTRUCTURE FOR TOMORROW

FASTER COMMISSIONING OF RAILWAY LINES

Average pace of commissioning of New Line / Doubling / 3rd & 4th line projects increased by 59% from 4.1 Kms (2009-14) to 6.53 Kms per day (2014-18)



CONNECTING INDIA ACT EAST POLICY

Entire network in North East converted to Broad Gauge

One of the highest bridges in the world being built on Jiribam-Imphal New Line Project

Rail connectivity established with Meghalaya (Dudhnoi-Mendipathar), Tripura (Kumarghat-Agartala) and Mizoram (Kathakal-Bhairabi)

1,397 Kms of New Lines projects costing ₹ 51,428 Cr in progress

MAJOR THRUST TO SUBURBAN NETWORKS

DEVELOPMENT OF BENGALURU SUBURBAN SYSTEM ₹ 17,000 CR IN BUDGET 2018-19

Will benefit about 15 Lakh commuters

Modern system with air-conditioned coaches, state of the art signalling and modern stations

UPGRADATION OF MUMBAI SUBURBAN SYSTEM: ₹ 54,777 CR IN BUDGET 2018-19

New corridors, additional lines/extensions and improved signalling

Increased passenger comfort due to air-conditioned coaches and developed stations





FIRST EVER BULLET TRAIN IN INDIA

MUMBAI AHMEDABAD HIGH SPEED RAIL

Shinkansen technology with record zero fatalities in 50 years and train delay record of less than a minute

Will reduce travel time from approx. 8 hrs to 2 hrs

Low cost funding from Government of Japan at a minuscule rate of interest makes it affordable

Huge direct and indirect employment opportunities

'Make in India' to make India a leader in High Speed Technology

“ Life is an aspiration. Its mission is to strive after perfection which is self-realization ”

– Mahatma Gandhi

MAKE IN INDIA

Electric Locomotive Factory at
Madhepura in Bihar



Factory for manufacturing Diesel Electric
Multiple Unit (DEMU) rakes at Haldia

Upcoming Projects

Coach Manufacturing for suburban and metro
trains at Latur, Marathwada

Factory for refurbishment of LHB coaches
sanctioned at New Bongaigaon, Assam

DEMU / Mainline EMU Shed sanctioned at
Lumding, Assam

Coach refurbishment facilities planned at Jhansi,
Bundelkhand and Sonepat, Haryana

“A man's true wealth
hereafter is the good he
has done to his fellowmen”

— Mahatma Gandhi



RAILWAYS ELECTRIFIED

Highest ever electrification in single year

4,087 RKM
(2017-18)

More than
6 times Increase

610 RKM
(2013-14)

**EXECUTION
INCREASED
EXPONENTIALLY**



SPEED

First-ever conversion of a locomotive from diesel to electric traction in the world

New indigenous electric locomotive delivers 5,000 HP, 92% more than the older version



SAVINGS

Energy Efficiency will help reduce fuel bills

Savings of approx. ₹13,500 Cr per year expected from complete electrification

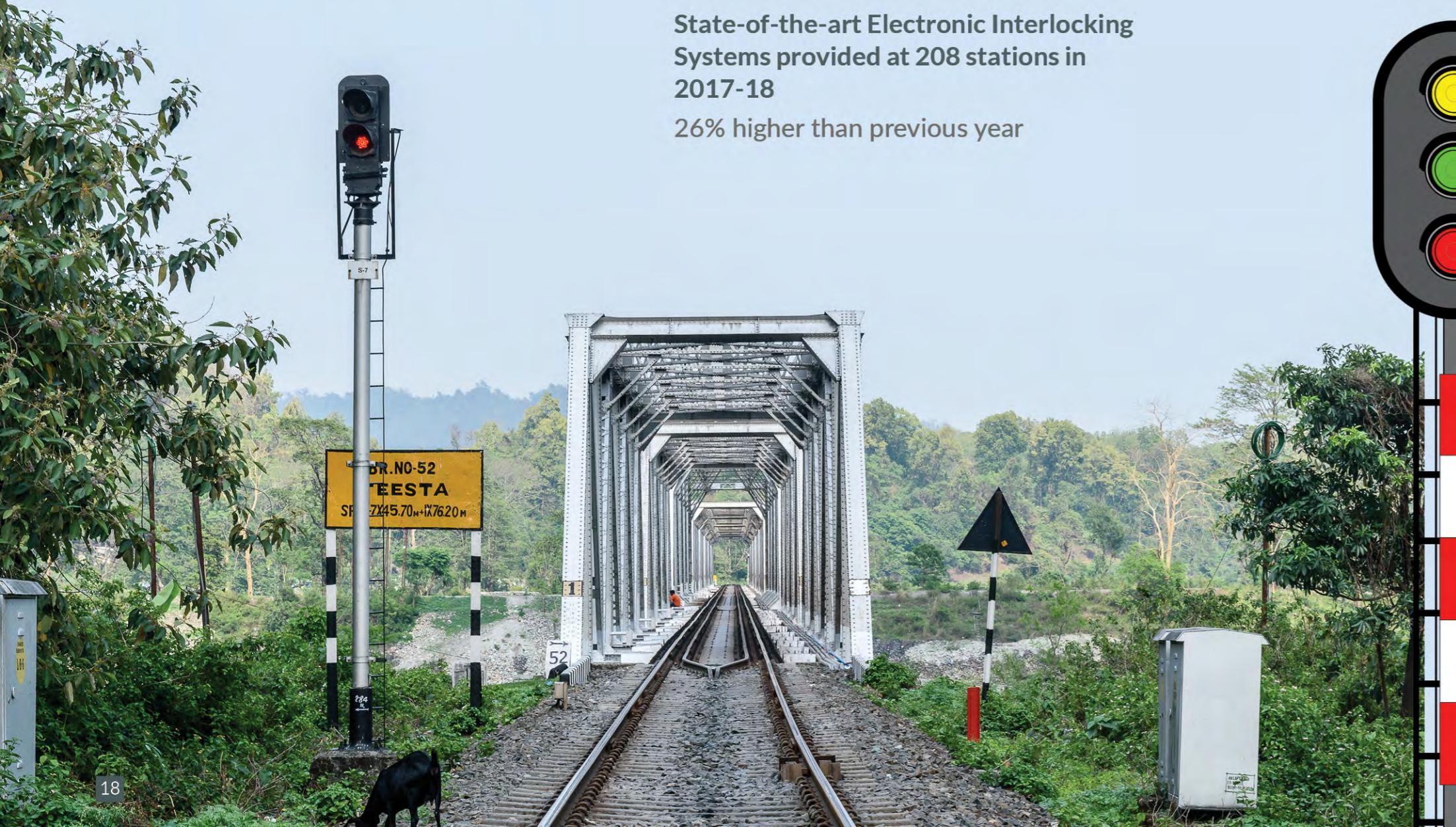


Contribute to India's energy security and improve trade deficit



SUSTAINABILITY

Reduce carbon emissions and promote sustainable environment



SIGNALLING NEW RAILWAYS

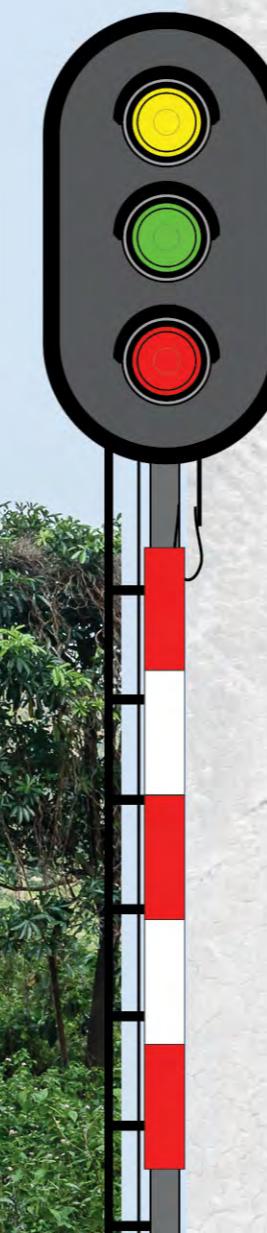
Modern signalling systems
to be introduced in Indian Railways

₹ 1,299 Cr investment for improving
signalling systems during 2017-18

31% higher than previous year

State-of-the-art Electronic Interlocking
Systems provided at 208 stations in
2017-18

26% higher than previous year



MOVING INDIA'S ECONOMY: FREIGHT



GOAL FOR 2022 IS TO INCREASE MARKET SHARE OF
FREIGHT TRANSPORT FROM 33% TO 45%"

Encouraging private participation in infrastructure and
operations of freight traffic

Private Freight Terminal (PFT) policy - already 58 PFTs notified

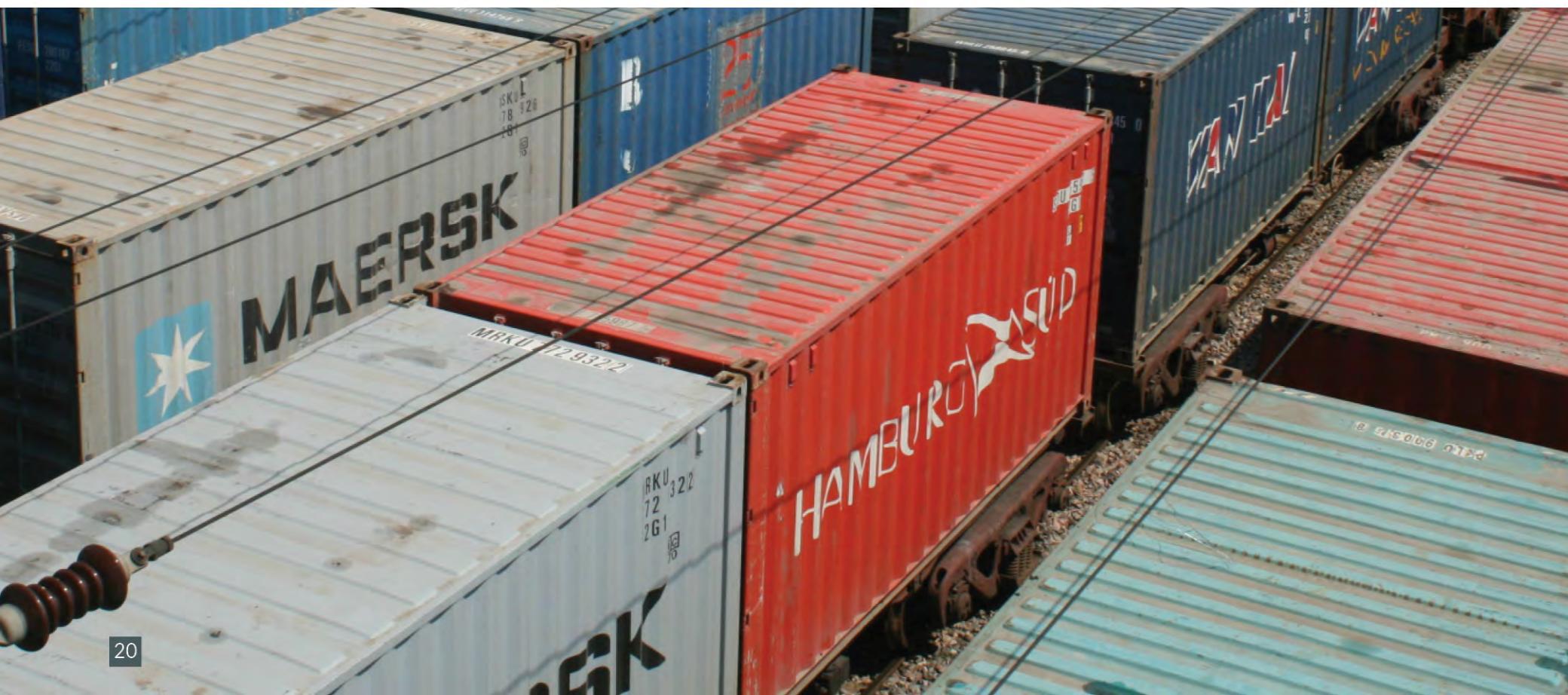
New policy to encourage private investment in wagons issued

Highest ever freight loading of 1,162 MT in 2017-18 vs 1,052 MT in 2013-14,
an increase of 10.5%

Highest ever freight earnings, expected to be over ₹ 1.17 Lakh Cr in 2017-18.
12% above previous year



MOVING INDIA'S ECONOMY: DFCs



DEDICATED FREIGHT CORRIDORS (DFCs)

Commissioning of Western and Eastern DFCs (2,822 Kms) in phases by 2019-20

Contracts worth ₹ 39,157 Cr awarded during the last four years as compared to contracts worth ₹ 12,749 Cr awarded up to March 2014 (more than 200% increase)

Reduction in freight travel time, transportation cost and de-congestion in existing network

Economic development and job creation by connecting factories and farms to ports

Create hubs of economic development



“Cleanliness is next to Godliness”

— Mahatma Gandhi

STATION DEVELOPMENT A LEAP INTO THE FUTURE

STATIONS TO BE DEVELOPED WITH WORLD CLASS FACILITIES

Stations recategorised to ensure better amenities for passengers

More objective criteria which will take into account earnings, passenger footfall, strategic importance

68 stations to be improved by Railways by March, 2019

Beautification of 60 stations already completed using local art

Redevelopment of Habibganj station, Madhya Pradesh and Gandhinagar station, Gujarat by December, 2018

All Railway stations fitted with 100% LED lights





A JOURNEY TO REMEMBER

UPGRADATION OF PASSENGER COACHES

Interiors of 5,000 coaches including mail/passenger trains to be improved by March, 2019

Modern Trains/Coaches

First ever indigenous Train-set to be commissioned this year

Tejas, Antyodaya and Humsafar trains launched

Double decker UDAY rake ready for service

Deen Dayalu and Anubhuti coaches with modern features

Glass top 'Vistadome' coaches on select routes so that tourists can view beautiful scenic routes



ENHANCING PASSENGER SERVICES

New Trains

407 new train services introduced in last 4 year

1.37 Lakh services to meet festival demand in last 4 years

22 new trains and 44 extensions through better utilisation of rolling stock, sweating of assets and use of lie over period

Third Party Performance Checking

100 mystery shoppers to monitor passenger amenities, catering, cleanliness & punctuality

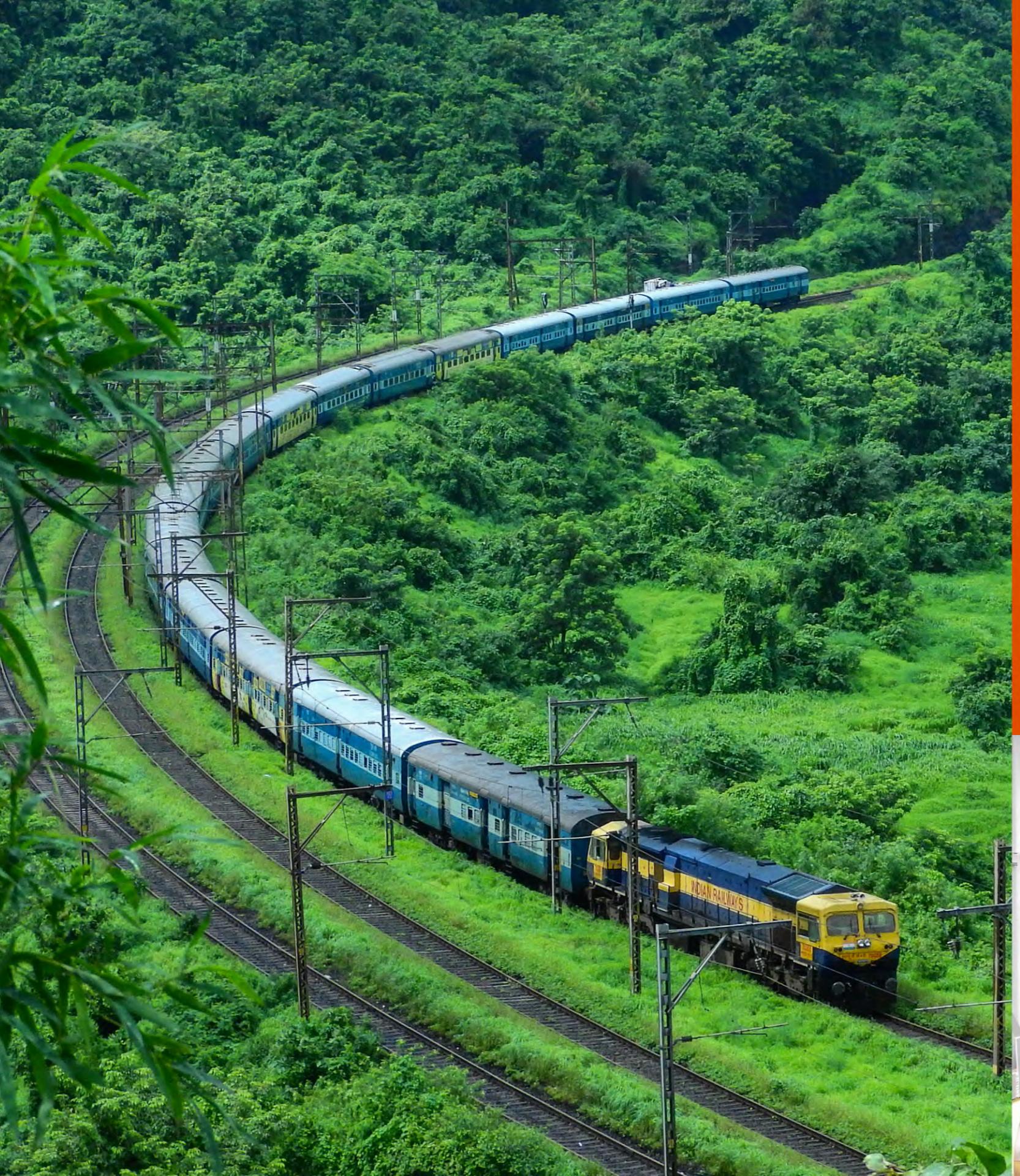
Punctuality

Punctuality in the short term impacted due to giving priority to infrastructure and safety works

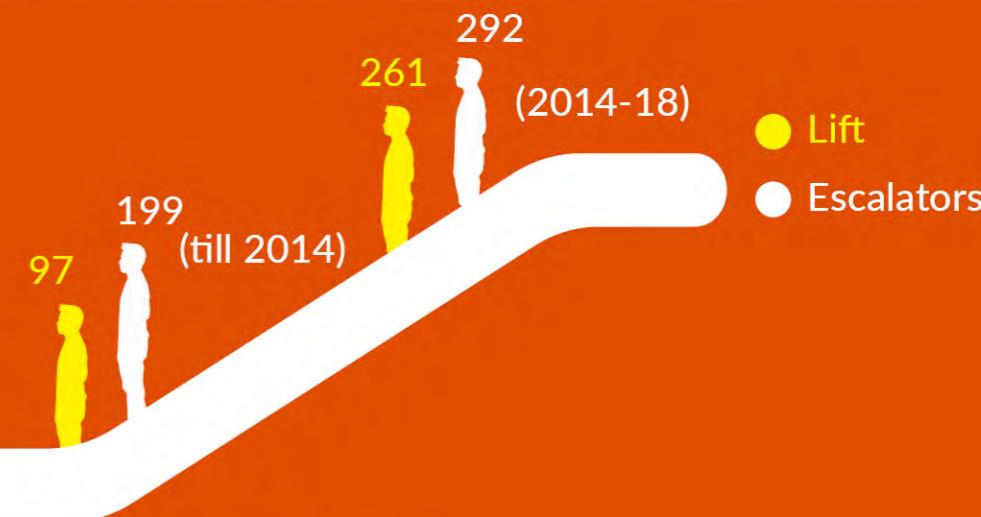
But in the long term this would enable faster and safer train movement

Time tabling of trains improved by reducing running time & allowing planned maintenance blocks

SMS services started on 1,373 trains to inform passengers about train delays

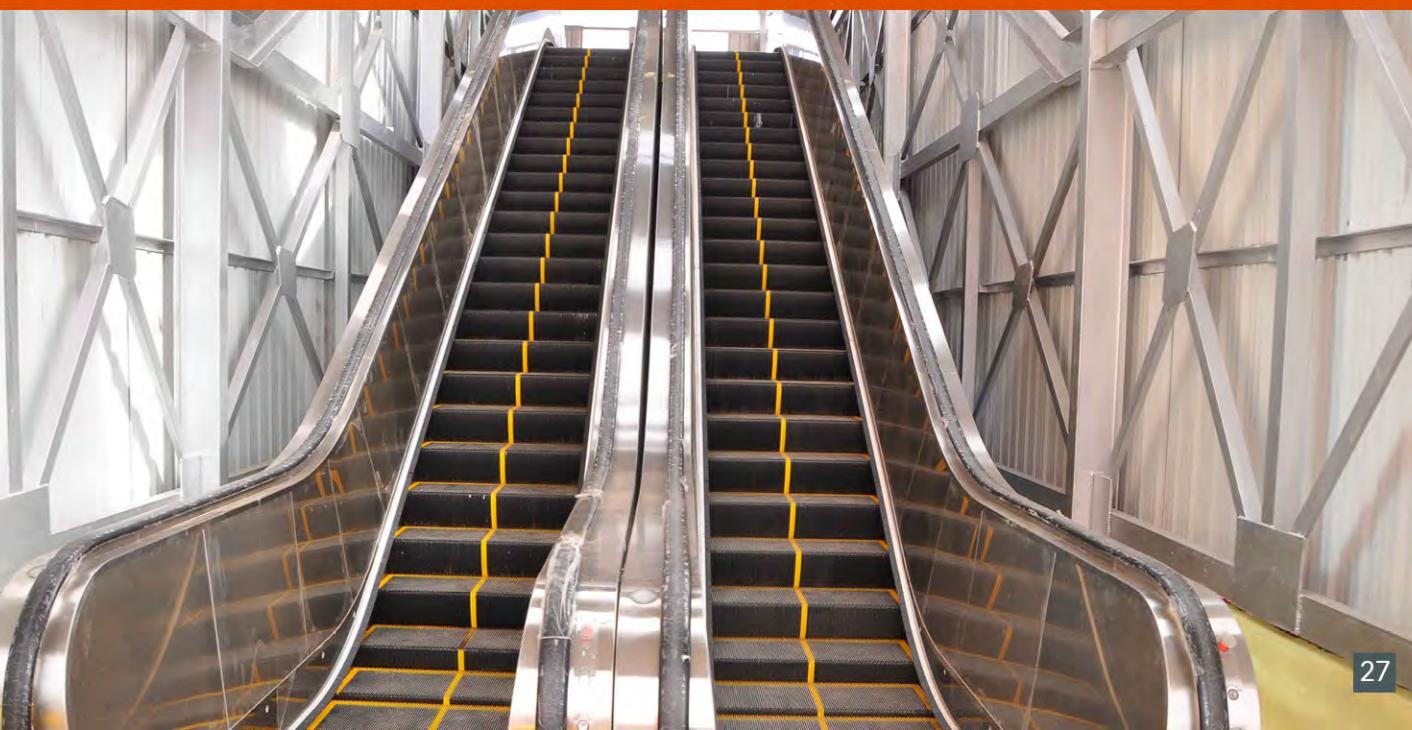


WORLD CLASS PASSENGER AMENITIES



ESCALATORS AND LIFTS

Facilitating convenient passenger movement



DIGITAL INDIA, DIGITAL RAIL



High speed Wi-Fi service at more than 675 stations

All stations to have Wi-Fi

Will benefit youth, women, farmers & villagers in nearby locations



Point of Sale (POS) machines for cashless transactions

9,100 POS machines installed at about 4,000 locations

'No Bill, Free food' policy: POS machines to implement compulsory billing

Capacity of e-ticketing increased from 2,000 tickets per minute in 2014 to estimated 20,000 tickets per minute in 2018

Service charge on credit and debit cards for purchasing tickets at booking counters removed

Passenger grievances resolved in real time via Social Media



CATERING

16 base kitchens already upgraded in 2017-18

Use of Artificial Intelligence to monitor food production in base kitchens for improving quality and hygiene

E-Catering started at 314 stations and 100 more planned. More than 7,000 meals/day

Compulsory printing of MRP on all food items started on more than 300 trains

Asking for tips banned across Railways

Optional catering introduced on 32 Rajdhani, Shatabdi, Duronto and Gatimaan trains

1,689 Water vending machines installed at 600 stations



SWACHHATA HI SEVA

Integrated Mechanised Cleaning already provided at 488 stations

All suburban and major stations to have mechanised cleaning by March 2019

Mechanised Laundries for improving quality of washed linen : 33 Setup in 2014-18 versus 26 in 2009-14

100% Mechanised laundries for improving quality of washed linen by December, 2019

Exceeding target of Bio-Toilets installation

Bio-Toilets installed:
1,17,164 in 2014-18 versus 9,587 in 2004-14

All trains to have bio-toilets by March 2019.
Vacuum bio-toilets like airlines are under testing

Affordable sanitary pad dispensing machines at major stations by December 2018



CLEANLINESS ON TRACKS

Automatic Rail-mounted machine to clear muck started in Delhi. Also planned across India

INDEPENDENT THIRD PARTY SURVEY

Independent third party survey started on stations and trains

NEW SYSTEM FOR HOUSEKEEPING CONTRACTS

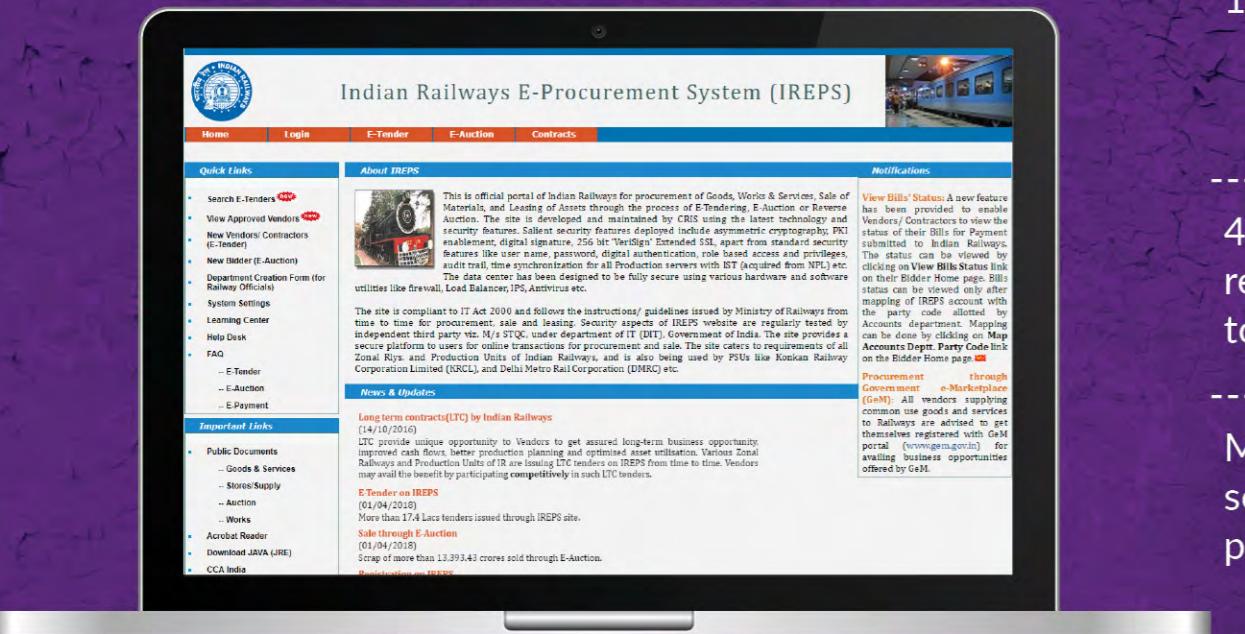
Payments to contractors also based on ratings given by passengers



REFORM TO TRANSFORM: TRANSPARENCY AND ACCOUNTABILITY

GENERAL CONDITIONS OF CONTRACTS FOR SERVICES INTRODUCED

Easy registration process for service contractors to promote competitiveness and save costs



CHANGE IN PROCUREMENT PRACTICES

e-Reverse auction policy issued

Will help save up to ₹ 20,000 Cr annually

100% E- Procurement through single web-portal

Almost 17 Lakh e-tenders floated through e-procurement portal

4 times increase in total number of vendors registered on IREPS portal from 19,867 in 2014 to 81,127 in 2018

Mandatory procurement of common use goods/ services through GeM (Government e-Marketplace)

ENCOURAGING COMPETITION BY INCREASING VENDORS AND REDUCING COST

Railways to pay contractors on a 'First in First Out' system

Letter of credit to be provided to all suppliers and contractors to help them get working capital

Receipt notes, supplier bills, receipted challans across railways digitised

Covers approximately ₹ 50,000 Cr worth of receipt notes, receipt challans

“Every reform means awakening.
Once truly awakened, the nation
will not be satisfied with reform
only in one department of life”

— Mahatma Gandhi



GeM
Government
e Marketplace

SIMPLER APPROVAL PROCESSES IN RESEARCH DESIGNS AND STANDARDS ORGANISATION (RDSO)

Details of approved vendors by nominated agencies (RDSO, Production Units etc.) put online

Process timeline reduced from 30 months to 6 months

13+ LAKH RAILWAY FAMILY

EMPOWERING FIELD OFFICERS/ DELEGATION OF POWERS

Powers of GMs to approve works fully delegated upto maximum limit

Powers for service contracts delegated to DRMs to enable faster processing and decision making

Decentralization of vendor approval to PUs to empower them to develop and manage their own sources

“ You must not lose faith in humanity. Humanity is an ocean; if a few drops of the ocean are dirty, the ocean does not become dirty ”

– Mahatma Gandhi



BUILDING A SKILLED WORKFORCE

INDIA'S FIRST NATIONAL RAIL & TRANSPORTATION UNIVERSITY IN VADODARA

Create a resource pool of skilled manpower

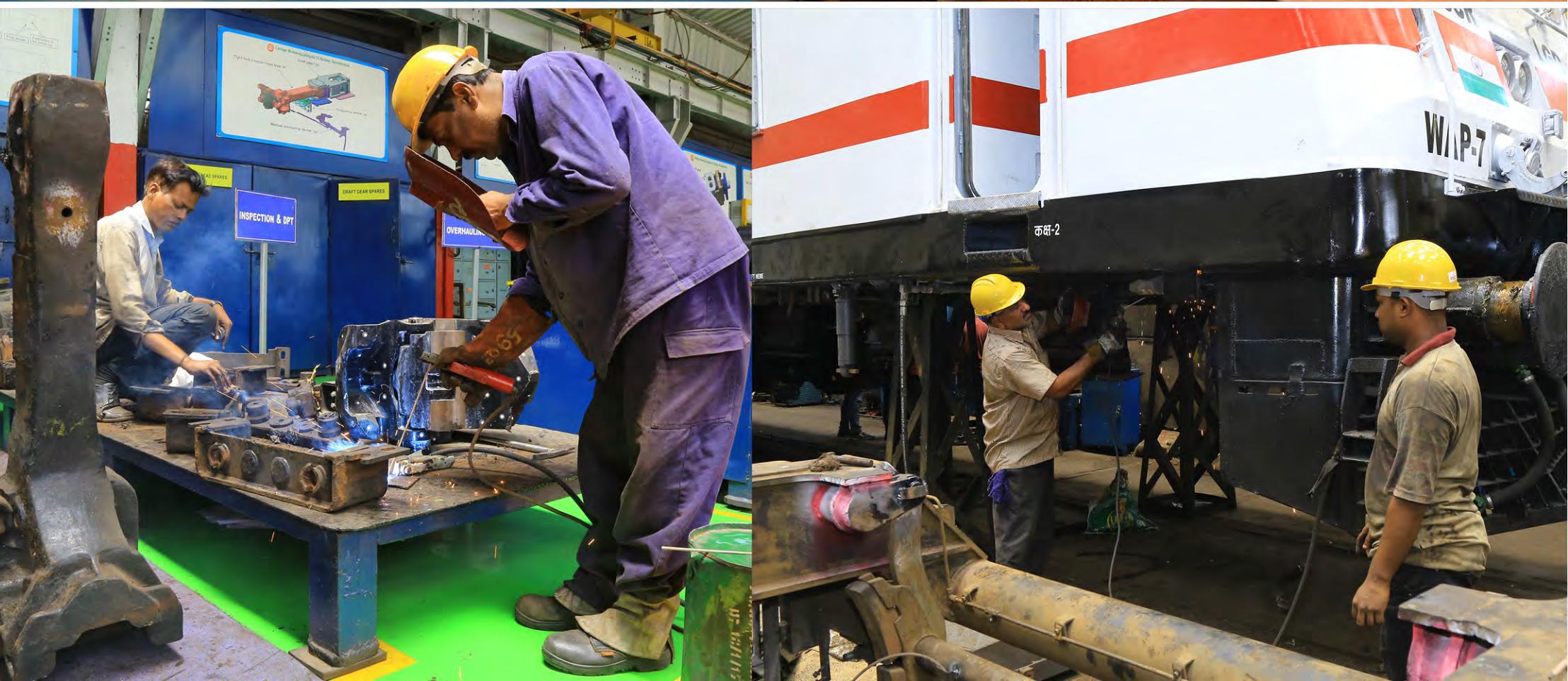
Enhance productivity and promote
“Make in India”

Set Indian Railways on the path of
modernisation

Will start 2 Courses – BBA (Transportation
Management) and BSc (Transportation Tech) in
August 2018

Post Graduate courses likely to commence
from 2019

Latest pedagogy & technology applications
to improve on-the-job performance and
productivity



PROJECT SAKSHAM

5 days on the job training / classroom training
to all employees

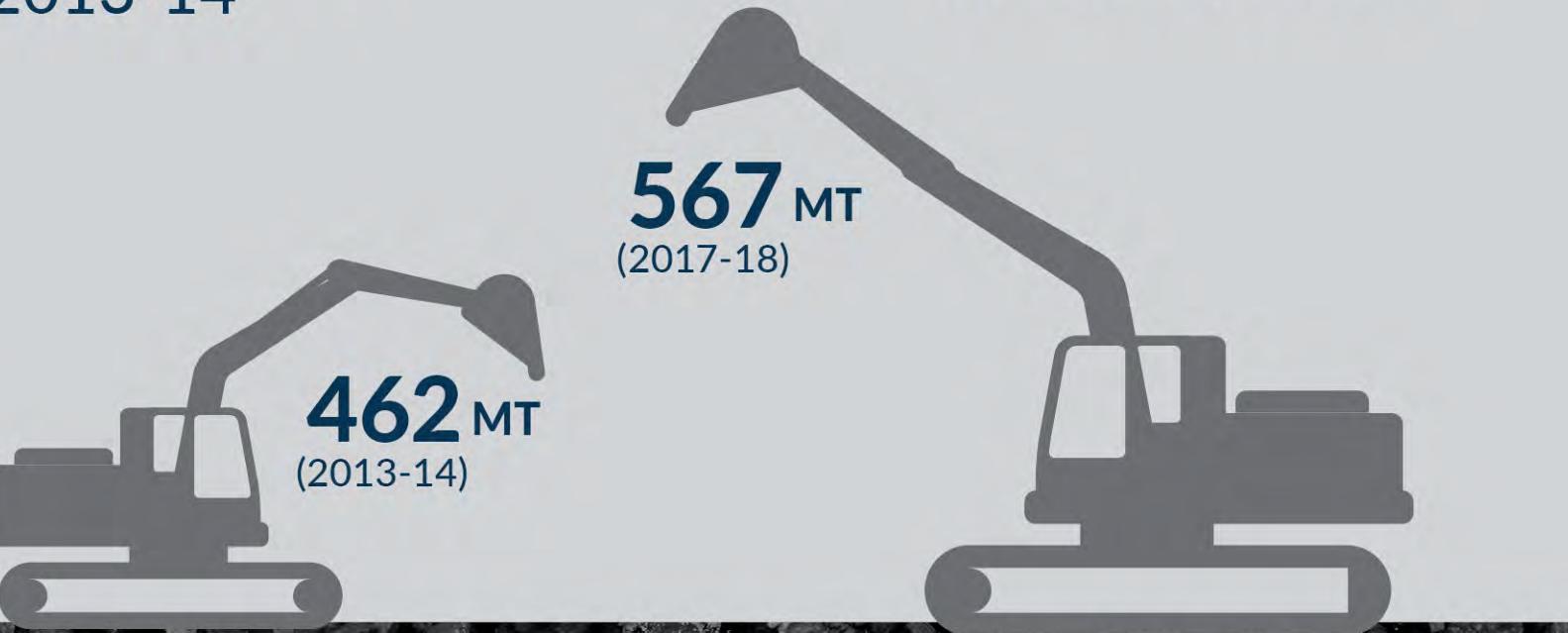
TRAINING OF APPRENTICES

Railways is providing skill training at
5% of total staff strength per year

Number of trainees increased from about
20,000 to 31,000

COAL: NATION'S FUEL FOR DEVELOPMENT

Drilling for exploration almost doubled:
13.7 Lakh meters in 2017-18 from 6.9 Lakh meters in 2013-14



The 105 MT increase in production of Coal India in the last 4 years took almost 7 years to achieve before 2013-14



Coal Offtake of Coal India increased by 23%

“Earth provides enough to satisfy every man's needs, but not every man's greed”

— Mahatma Gandhi

SUPERIOR COAL QUALITY

Third party sampling procedure to verify coal quality

100% crushed coal to power plants

Re-grading of all mines of Coal India and Singareni Collieries Company done

REDUCING COST OF ELECTRICITY

Amount of coal required to generate per unit of electricity (specific coal consumption) has reduced by 8% in last 4 years



“ If I have the belief that I can do it, I shall surely acquire
the capacity to do it even if I may not have it at the beginning ”

– Mahatma Gandhi

COAL REFORMS FOR NEW INDIA

COMMERCIAL COAL MINING

Most ambitious reform in Coal Mining after
Nationalisation in 1973

Will reduce import dependency of coal and
bring energy security through assured coal
supply

Direct and indirect employment through
higher investments

TRANSPARENT E-AUCTION AND ALLOCATION OF COAL BLOCKS

89 coal mines successfully auctioned
and allocated

100% revenues to coal bearing states

TRANSPARENCY & ACCOUNTABILITY

RATIONALISATION OF COAL LINKAGE

Total coal movement rationalization of 55.66 MT with annual potential savings of ₹ 3,359 Cr



SHAKTI

(Scheme for Harnessing and Allocating Koyala Transparently in India)

Transformational policy for auction and allotment of coal linkages

Lead to affordable power, and transparent allocation of coal

16 Fuel Supply Agreements signed under SHAKTI

RAIL COAL COLLABORATION

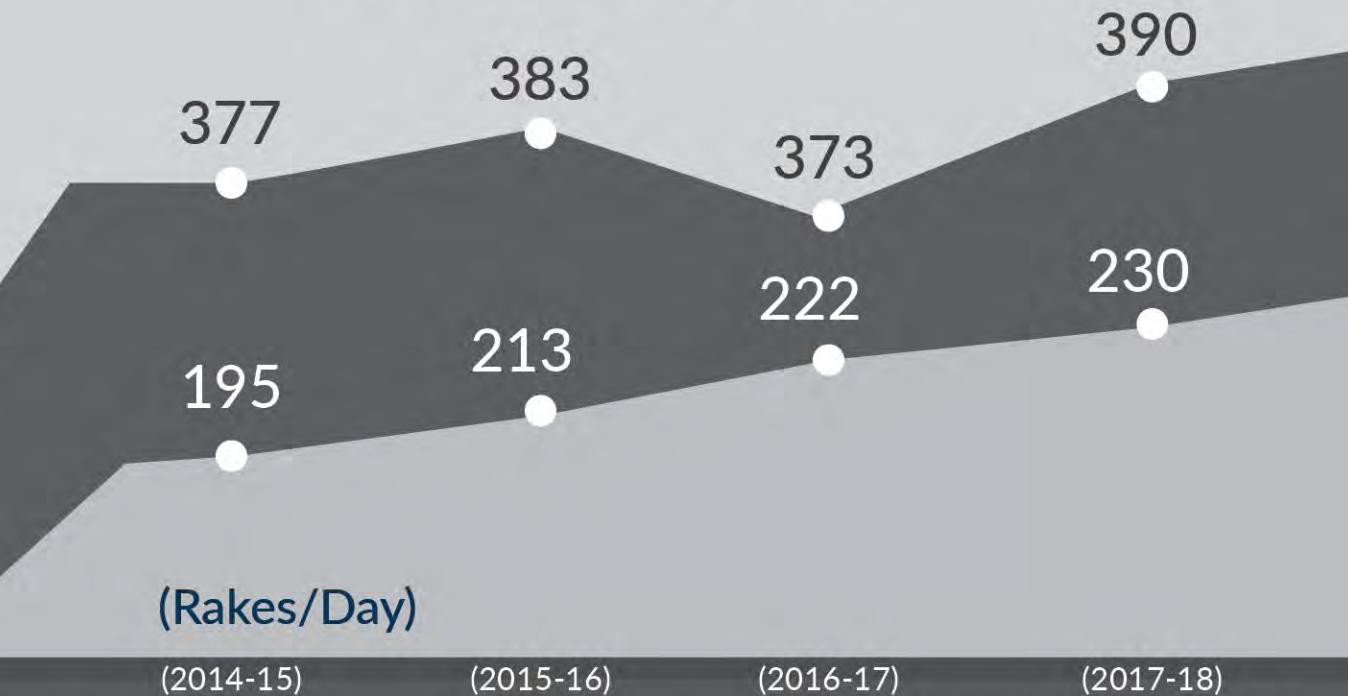
Timeline for 14 critical projects for evacuating coal established for time bound execution to increase coal transportation

Tori-Balumath Rail Section, a part of long awaited Tori-Shivpur rail line (44 Kms) started from 9th March 2018

Jharsuguda-Barapalli (53 Kms) rail line in Odisha completed

Total Coal Loading has increased

● TOTAL ● COAL INDIA



**“The best way to find yourself
is to lose yourself
in the service of others”**

- Mahatma Gandhi

