

*“Indian Railways is the growth engine
of nation’s Vikas Yatra”*

Narendra Modi
Prime Minister



ENGINE OF NEW INDIA

5 Years

Achievements and Initiatives of
Ministries of Railways and Coal

Government of India, 2019



SAFETY

Best ever safety
record in 2018-19



MOVING THE INDIAN ECONOMY

2 sections of
Dedicated Freight
Corridor completed



INNOVATE IN INDIA

World's 1st ever conversion
of diesel loco into electric loco
at Diesel Locomotive
Works in Varanasi



LONGEST RAIL CUM ROAD BRIDGE

Bogibeel bridge
connecting
Arunachal Pradesh
to rest of India



NAMUMKIN AB

MUMKIN HAI



LARGEST RECRUITMENT DRIVE OF ABOUT 1.5 LAKH NEARLY COMPLETED

Additional 2.3 lakh over the next 2 years



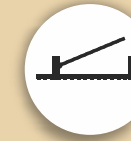
MAKE IN INDIA

First indigenous
Semi-High Speed
Vande Bharat Express



SAFER CROSSINGS

All Unmanned Level
Crossings on
Broad Gauge network
eliminated



ELECTRIFYING RAILWAYS

100% electrification
of Broad Gauge
routes underway





SAFETY FIRST

152
2013-14

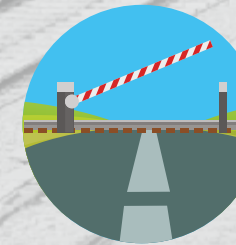
29
2018-19*

No of deaths

**Best ever safety
record in 2018-19:**

81% drop in number of deaths

*upto Jan 31, 2019



All Unmanned Level
Crossings (UMLCs) on
Broad Gauge network
eliminated



1,137 UMLCs per year during
2009-14



3,479 UMLCs 2018-19



Speedy execution
of rail renewals



2,926 Kms 2013-14

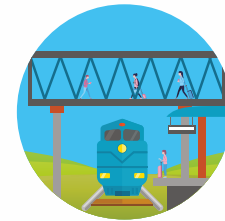


5,000 Kms expected in 2018-19

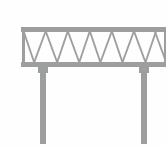
Stopped production of
50 year old design of
ICF coaches

SAFETY REIGNS SUPREME

Rashtriya Rail Sanraksha Kosh (RRSK) fund of ₹1 lakh cr created for safety expenditure

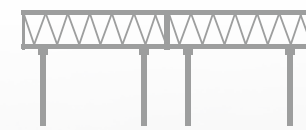


Focused attention on Foot Over Bridges and High Level Platforms



23

per year during 2009-14



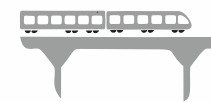
74

per year during 2014-18

3 times FOBs constructed per year

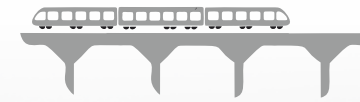


Highest ever construction of ROB/RUBs/ Subways in 2017-18



415

per year during 2004-14



1,220

per year during 2014-18

3 times increase in average construction per year

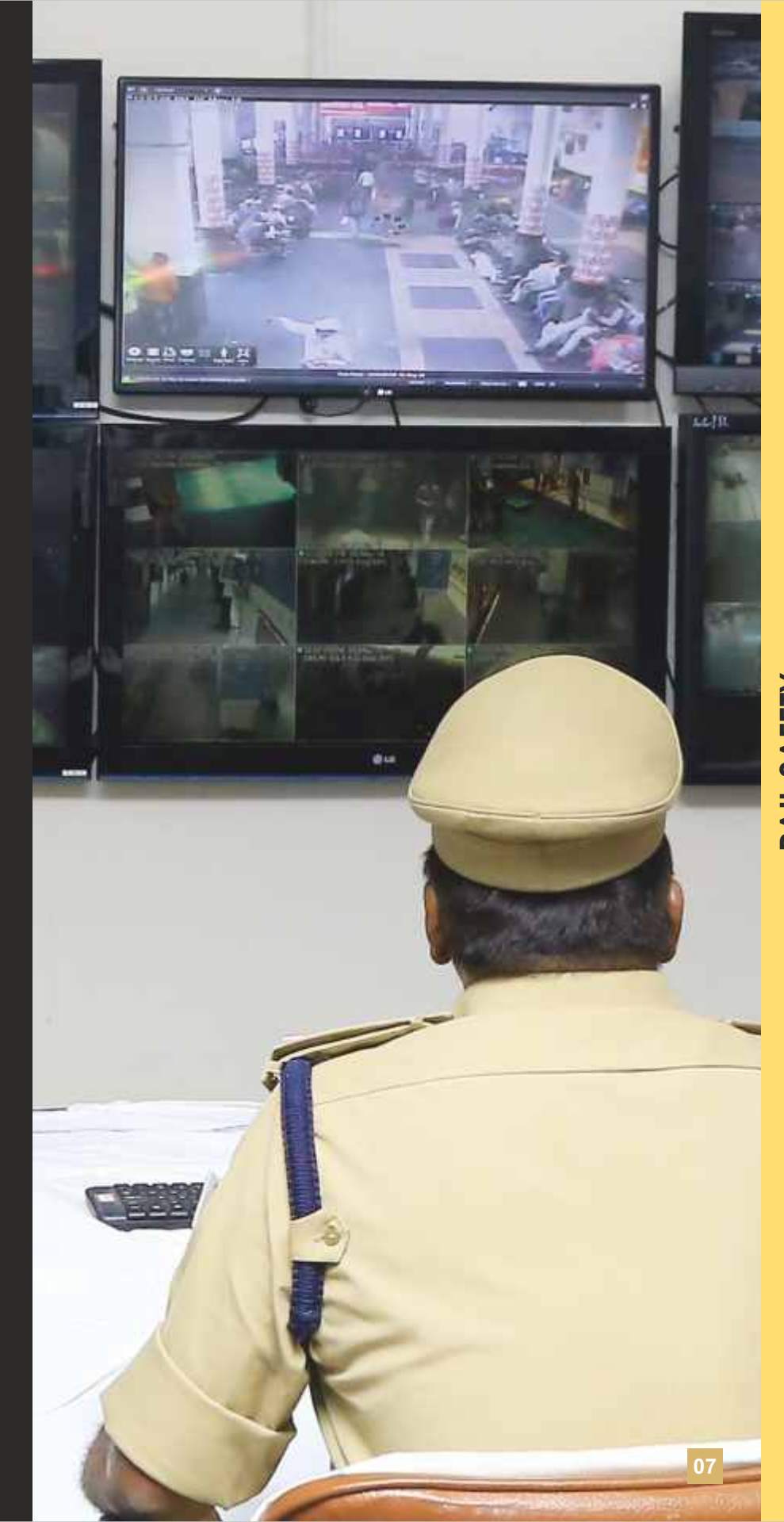


SECURITY

CCTV/Video surveillance systems being installed in all trains and stations

45,200 children rescued since 2014

547 individuals handed over to Government Railway Police (GRP) since 2014 for crimes against women



QUANTUM LEAP IN CAPITAL EXPENDITURE

Total capital expenditure
between 2014-19 is
more than double of
total during 2009-14

Capex for 2019-20 is
₹1.58 lakh cr (Highest ever)

₹2.3
lakh cr
(2009-14)

₹5.1*
lakh cr
(2014-19)

* Including RE 2018-19

ENABLING CAPACITY ENHANCEMENT

Faster commissioning
of railway lines

Average pace of
commissioning of New
Line / Doubling / 3rd & 4th
line projects is 59% higher



4.1 Kms per day during
2009-14



6.53 Kms per day during
2014-18

Target of 15.34 Kms
per day in 2019-20

BOGIBEEL BRIDGE: BRIDGING DEVELOPMENTAL DIVIDE

- Longest rail-cum-road bridge in India
4.94 Kms long
- State-of-the-art technology & machinery used
- Sanctioned in 1997-98, fast-tracked and completed now

Journey from Itanagar to Dibrugarh only 180 Kms

- Reducing the distance by more than 700 Kms
- Time shortened from 24 hrs to only 5 hrs

CONNECTING INDIA - CONNECTING LIVES

Boost to Rail Connectivity in North East

- Entire network in North East converted to Broad Gauge ensuring seamless connectivity
- 7 Sister States of North East (Assam, Meghalaya, Nagaland, Tripura, Mizoram, Manipur and Arunachal Pradesh) connected by Rail Network
- In 2014, only Guwahati had broad gauge linkage
 - Now Itanagar and Agartala connected
 - By 2020-21 remaining State capitals to be connected
- India's tallest bridge being constructed under Jiribam-Tupul-Imphal new line project



CONNECTING DOTS OF SUBURBAN NETWORKS

Development of Bangalore Suburban System:

Ongoing projects worth more than ₹15,700 cr

- Will benefit about 15 lakh commuters
- Modern system with air-conditioned coaches, state of the art signalling and modern stations

Development of Mumbai Suburban Systems:

Ongoing projects worth more than ₹70,000 cr

- Will benefit about 75 lakh commuters
- Since 2014, 214 new services added
- Increased passenger comfort due to air-conditioned coaches

- Long pending Nerul - Seawood / Belapur - Uran New Line Project opened in November 2018
- **Visual Alarm Indication System (VAIS):** Blue light signal on door of coach to signal starting of the train for passenger safety



GIVING RAFTAAR TO NEW INDIA

VANDE BHARAT EXPRESS

**First indigenous semi high speed train
between Delhi and Varanasi**

- Using Train 18 rake
 - Make in India product: India's first High-tech, energy-efficient, self-propelled train
 - To be proliferated across India and also exported globally
 - To run at a maximum speed of 160 Kmph
- 35-40% faster than the fastest train between Delhi and Varanasi
- Substantial reduction in travel time due to faster acceleration & deceleration
- World class features for passenger convenience
- 130 trainsets to be ordered





BULLET TRAIN FUTURE OF RAIL

Ahmedabad Mumbai High Speed Train

- To be completed by 2023
- Shinkansen technology with record zero fatalities in 50 years and train delay record of less than a minute
- Will reduce travel time from approximately 8 hrs to 2 hrs
- Low cost funding from Government of Japan at a miniscule rate of interest, making it affordable
- Huge direct and indirect employment opportunities
- India to become a leader in High Speed Technology through Make in India

Diesel Locomotive Works (DLW) in Varanasi, Uttar Pradesh : World's 1st ever conversion of diesel locos into electric loco to enable Mission Electrification

Electric Locomotive Factory at Madhepura, Bihar: 1st State-of-the-Art Electric locomotive of 12,000 HP



MAKE IN INDIA

Smart Coaches with better safety and amenities rolled out

Modern Coach Factory, Rae Bareli

- Commissioned in 2010 to produce 1,000 coaches per year
- Till 2014, did minor finishing work on coaches brought from Kapurthala
- First complete coach manufactured in August 2014
- Now - Sanctioned capacity to be increased from 1,000 to 2,844 coaches/year



Sanctioned

- New coach manufacturing factory at Latur, Maharashtra
- Workshop for refurbishing of LHB coaches at New Bongaigaon, Assam
- DEMU/Mainline EMU shed at Lumding, Assam
- Rail Coach Refurbishment Karkhana at Sonipat, Haryana
- Rail Coach refurbishment facilities at Jhansi, Uttar Pradesh



Execution increased exponentially
Target for 2018-19: 6,000 RKM

RAILWAYS ELECTRIFIED

100% Electrification of Broad Gauge Routes of Indian Railways by 2021-22

Benefits

Capacity & Speed

Increase operational efficiency, enhance line capacity and improve average speed of trains

Saving and Energy Security

Save about ₹13,500 cr per annum in fuel bill

Sustainability

Environmental cost per Tonne Km for Electric Traction is 1.5 Paise and for Diesel Traction is 5.1 paise



MODERN SIGNALLING

- Most advanced signalling system to be installed in Railways
- Provision of ₹77,912 cr in 2018-19
- In 1st phase, 4 sections of 640 RKM taken up for installation of ETCS L2 on trial basis

Benefits

Enhancement in safety

Increase in capacity

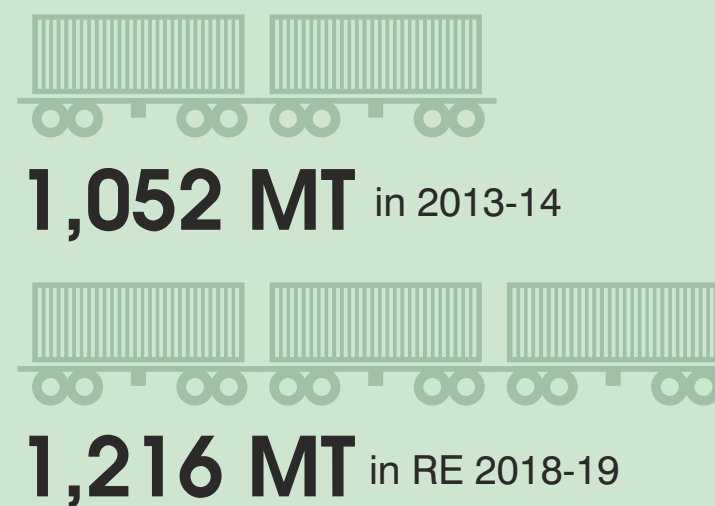
Improvement in punctuality

Increase in speed

PUTTING FREIGHT IN THE FAST LANE

Goal for 2022 to increase modal share of freight transport from 33% to 45%

- Encouraging private participation in infrastructure and operations of freight traffic
 - Private Freight Terminal (PFT) policy - 60 PFTs notified
- Highest ever freight earnings, expected to be about ₹1.43 lakh cr in BE 2019-20
- Started novel Freight Convoy System
 - Upto 50% increase in freight throughput on convoy days
 - Successfully running on 10 Zonal Railways



FREIGHT CORRIDOR: GATEWAY TO SUPERFAST GROWTH

Dedicated Freight Corridor (DFCs)

- First sections completed
 - Eastern DFC
Bhadan to Khurja - 200 Kms completed
 - Western DFC
Rewari to Madar - 306 Kms completed
- Entire DFC expected to be completed by 2020-21
- Ensuring rapid, seamless and easier flow of goods
- Economic development and job creation by connecting factories and farms to ports



STATION DEVELOPMENT

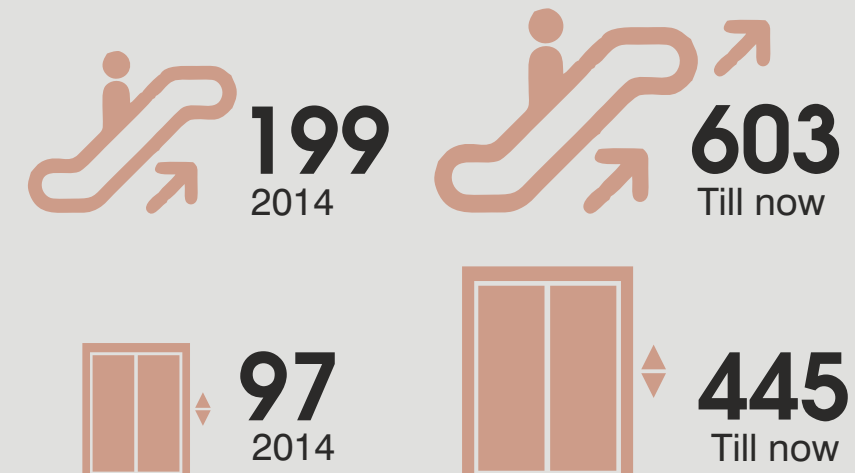
PLATFORMS OF PROGRESS

- Redevelopment through various business models: Commercial as well as residential development with longer lease tenure upto 99 years
- 4 stations under progress - Habibganj, Gandhinagar, Charbagh and Gomtinagar
- Beautification of 65 stations completed using local art
- All stations fitted with LED lights
- Providing airport like amenities with facilities like Wi-Fi, food centres, kiosks, restaurants etc.
- Making stations Divyang Friendly with Lifts, Escalators, Travellators, Ramps etc.



ENHANCING PASSENGER SERVICES

Increased number of escalators and lifts



871 new train services started
since 2014

Punctuality

- Real train timings through automatic data from Data Loggers
- SMS services on 1,373 trains to inform about train delays

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लिफ्ट
LIFT



A JOURNEY TO REMEMBER

Upgradation of Passenger Coaches

- Tejas trains with ultra modern facilities for passengers
- Gatiman trains: High speed luxury train introduced

- Humsafar trains having additional amenities in the coaches introduced
- Antyodaya trains: Long distance fully unreserved train with modern facilities launched

- Deen Dayalu and Anubhuti coaches with modern features introduced
- Mahamana express with refurbished coaches and amenities introduced
- UDAY - Utkrisht Double-Decker Air-conditioned Yatri express with 40% increased capacity introduced

- Glass top Vistadome Coaches introduced on Visakhapatnam-Araku, Mumbai-Goa and World Heritage Kalka-Shimla sections
- Project Swarn and Project Utkrisht started to upgrade Rajdhani/Shatabdi and Mail/Express trains respectively



DIGITAL INDIA, DIGITAL RAIL

- **Connect to the digital world** - High speed WiFi service at more than 800 stations
- **Faster user friendly website** - New Ticketing Website (IRCTC) with features like ticket confirmation probability
- **Relief from long lines** - Pan India rollout of paperless Unreserved Ticketing (UTS)
 - 1,14,000 tickets per day booked now versus 195 tickets per day in 2014-15
- **Rest at stations** - Online booking of Retiring Rooms for convenience of passengers
- **Easy Transparent Ticketing** - Handheld Point of Sale (POS) Machines
 - All trains to have POS machines
 - Convenience for waitlisted passengers by real-time allotment of vacant seats



QUALITY CATERING SERVICES

- **CCTV Cameras installed** in 16 Base kitchens. Artificial Intelligence (AI) to detect and rectify deficiencies in hygiene
- **Assured Quality:** Third Party Audit of catering services
- **No more overcharging**
 - Compulsory printing of MRP on all food items
 - Menu on Rails app launched to check MRP of food items
- **Choose your own food:** e-catering service at around 325 stations: Supply of 15,000-16,000 meals per day



SWACHHATA HI SEVA

*“Cleanliness is
next to Godliness”*

- Mahatma Gandhi



Clean Tracks

- Over 1.8 lakh bio-toilets installed since 2014 (In less than 5 years) compared to 9,587 during 2004-14 (In 10 years)

Clean Stations

- Integrated mechanised cleaning at 697 Railway stations
- 3rd party survey on cleanliness at 407 major stations

Clean Coaches

- On Board Housekeeping Service (OBHS) in 1,068 trains
- Coach Mitra Service started in 2,167 trains: Passengers can request real time cleaning of coaches via SMS or App

Clean Linen

- Mechanised laundries for improving quality of washed linen: Increased from 25 till March 2014 to 57 so far in 2018-19





Kumbh Calling:

- Projects worth ₹2,100 cr under progress or completed

INDIA: SPIRITUAL CAPITAL OF THE WORLD

Ramayan Express: Retracing epic journey of Lord Ram

Panj Takht Express: Will connect the five sacred Takhts associated with the Sikh religion

Buddhist Circuit Train: Special train with world class facilities. Covering areas associated with Lord Buddha

Dhanushkodi and Pamban Bridge projects: Rail line between Rameswaram and Dhanushkodi (starting point of Ram Setu) and Pamban bridge, connecting mainland and Rameswaram on Pamban island planned

Shri Mata Vaishno Devi connected: 25 Kms line between Udhampur and Katra providing direct connectivity and benefitting pilgrims

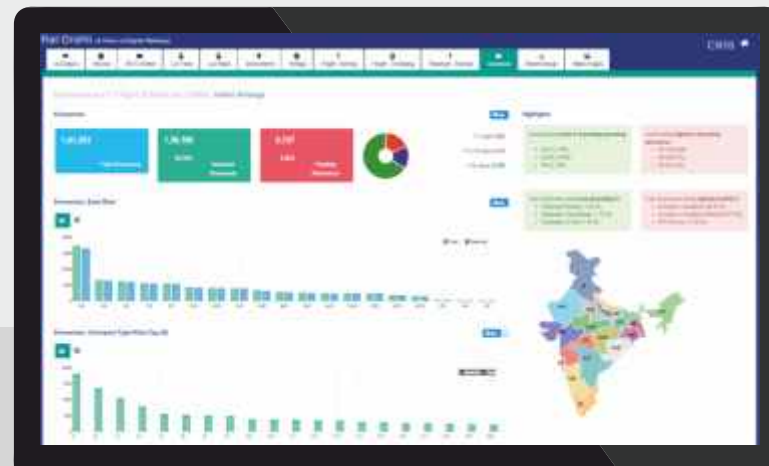
Mata Chintpurni Shrine Connected: Andaura-Daulatpur Chowk section of Nangal to Talwara Rail Line opened for direct access to Chintpurni Shrine in Una, Himachal Pradesh

- More than 5,100 specially trained Railway employees, including 2,600 RPF Personnel, assisting devotees
- No surcharge on tickets in Kumbh Special Trains
- 'Rail Kumbh Seva-2019' App: provide information regarding 'mela special' trains, route to railway stations, mela zone, hotels, bus stands etc.

RAIL DRISHTI: A BIRD'S EYE VIEW OF RAILWAYS

Access to public has been given - raildrishti.cris.org.in

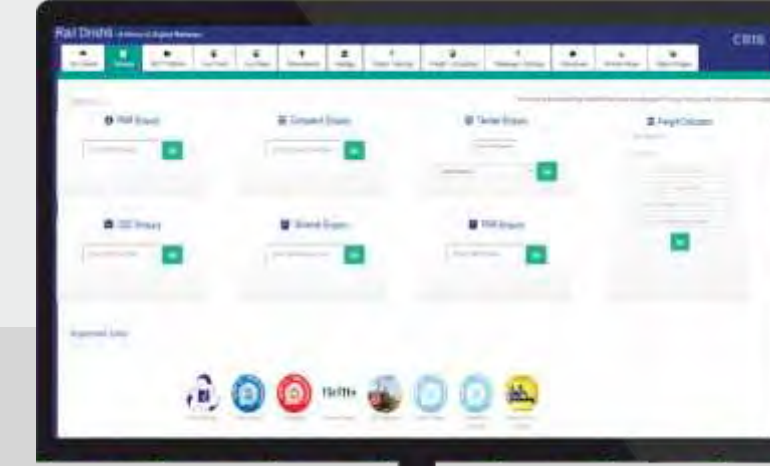
Will empower people with information



Grievances



Achievements



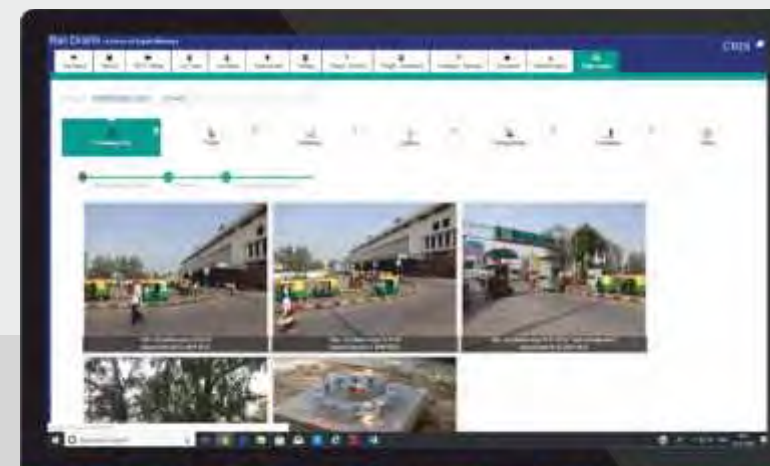
Services



Shramik Kalyan



Live Trains



Station Images



Heritage



Freight Loading / Unloading

1ST EVER RAIL UNIVERSITY: FOSTERING TALENT FOR TRANSPORT

National Rail & Transportation Institute

- Became a reality on Teachers' Day in 2018
- Began 1st academic session with two under-graduate programmes - B.Sc. in Transportation Technology & BBA in Transportation Management with 103 students
- ₹421 cr sanctioned for next 5 years
- Collaboration with global universities for faculty/student exchange and joint research
- Foster entrepreneurship and support Start Up India initiative



EMPOWERING RAILWAY FAMILY

Empowering Workforce

- Powers to approve works fully delegated to GMs upto maximum limit
- Powers for service contracts delegated to DRMs for faster processing and decision making

Health Check Up Camps

Historic Recruitment Drive

- 1.5 lakh vacancies being filled
- 2.3 lakh to be recruited over next two years

Training under 'Project Saksham'

- 5 days on the job training to all employees
- Trained more than 12 lakh employees which is a record
- Skill upgradation and productivity boost



EASE OF DOING BUSINESS

General Conditions of Contracts for Services Introduced

- Easy registration process for service contractors

Change in Procurement Practices

- E-reverse auction policy issued
- 100% e- Procurement through single web-portal
- Mandatory procurement of common use goods/services through Government e-Marketplace

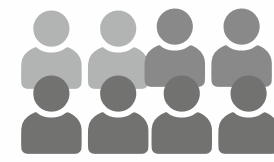
Simpler approval processes in Research Designs and Standards Organisation (RDSO)

- Process time reduced from 30 months to 6 months

More than 5 times increase in total number of vendors registered on IREPS portal



19,867
in 2014



1,07,541
upto Jan'19

Android App
“IREPS -आपूर्ति”
launched for
access to
information
on e-tenders
and e-auctions



MAKING INDIA A PROUD SPORTING NATION

Stellar Performance by Railways

- 4 Railway players conferred 'Padma Shri'
- Podium performances in 40 National Championships
- 24 medals in Commonwealth Games (2014 & 2018) and 52 medals in Asian Games (2014 & 2018)

Nurturing Sportspersons

- 330 days special casual leave, cash awards and Out of Turn Promotions for outstanding athletes
- 7 sportsperson have been promoted to officer
- Kuldeep Singh, wrestling coach, promoted to officer



Sathish Kumar
Sivalingam



Mira Chanu

COAL: GEARING UP THE SECTOR

Drilling for exploration

 **6.9** lakh meters
2013-14

 **13.7** lakh meters
2017-18

Target of 13.67 lakh meters
in 2018-19

Coal production of Coal India

- 105 MT increase in production since 2014
- Took almost 7 years to achieve before 2013-14

Target of 610 MT
in 2018-19

Coal offtake of Coal India

 **471** MT
2013-14

 **580** MT
2017-18

Target of 610 MT
in 2018-19

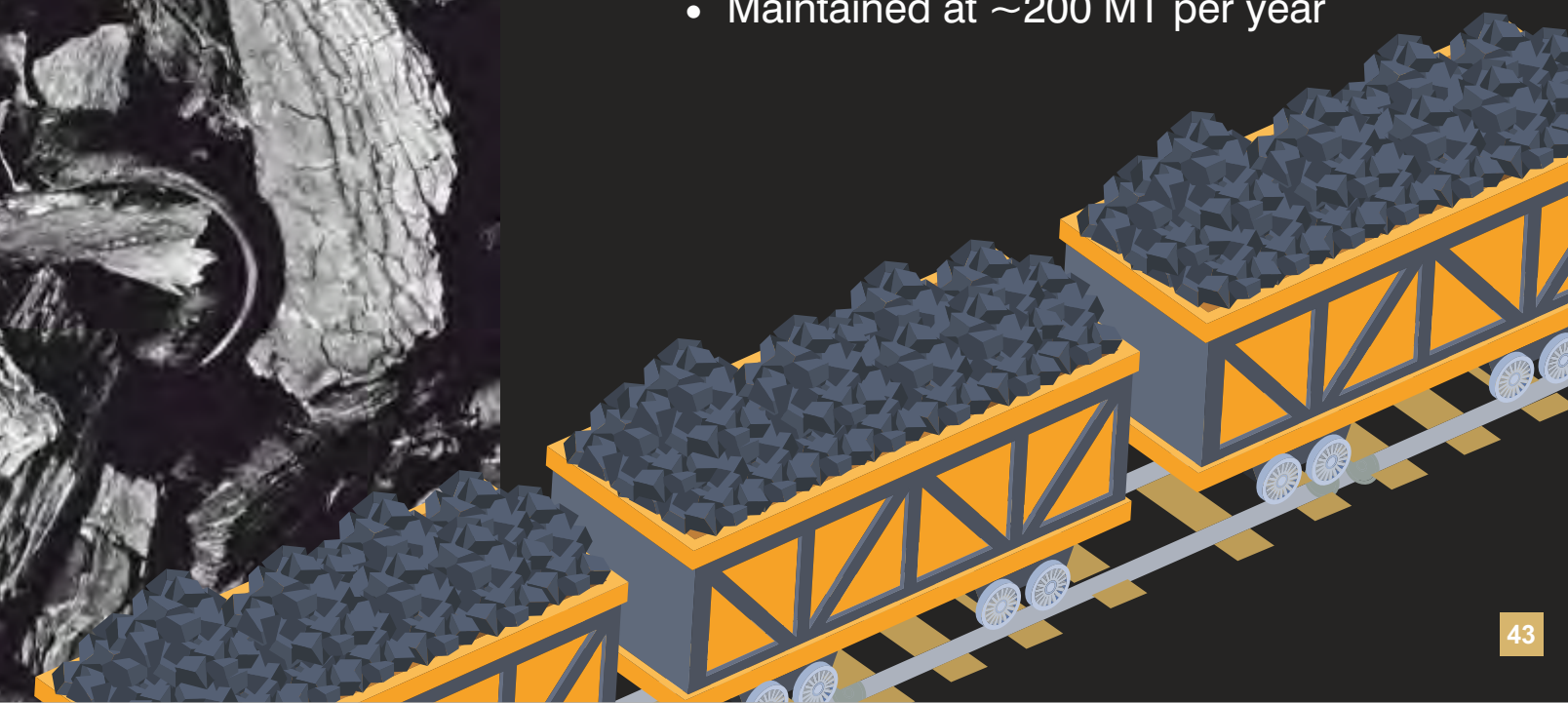
...As a result

Sufficient coal stocks

- Number of coal plants with critical stock only 4 out of 125 (as on 20th February, 2019) vs 2/3rd coal plants with critical stock in 2014

Coal imports substantially decreased

- As per earlier trend, imports would have reached 380 MT in 2017-18
- Maintained at ~200 MT per year





BENEFIT TO POWER PLANTS

Superior Coal Quality

- Third party sampling procedure to verify coal quality
- 100% crushed coal to power plants
- Regradation of all mines of Coal India and Singareni Collieries Company

Reducing Cost of Electricity

- Amount of Coal required to generate per unit of electricity (specific coal consumption) reduced by 8% since 2014

COAL REFORMS FOR NEW INDIA

Commercial Coal Mining

- Most ambitious reform in Coal Mining after Nationalisation in 1973
- Will reduce import dependency and bring energy security through assured coal supply

Transparent E-Auction and Allocation of Coal Blocks

- In 2014, 204 coal mines cancelled by Hon'ble Supreme Court
- Today,
 - 85 coal mines successfully auctioned and allocated
 - 100% revenue to coal bearing states

Payment of Royalty (39% growth)

₹24,922 cr
paid during preceding 4 years

₹34,709 cr
paid in last 4 years



TRANSPARENCY AND ACCOUNTABILITY

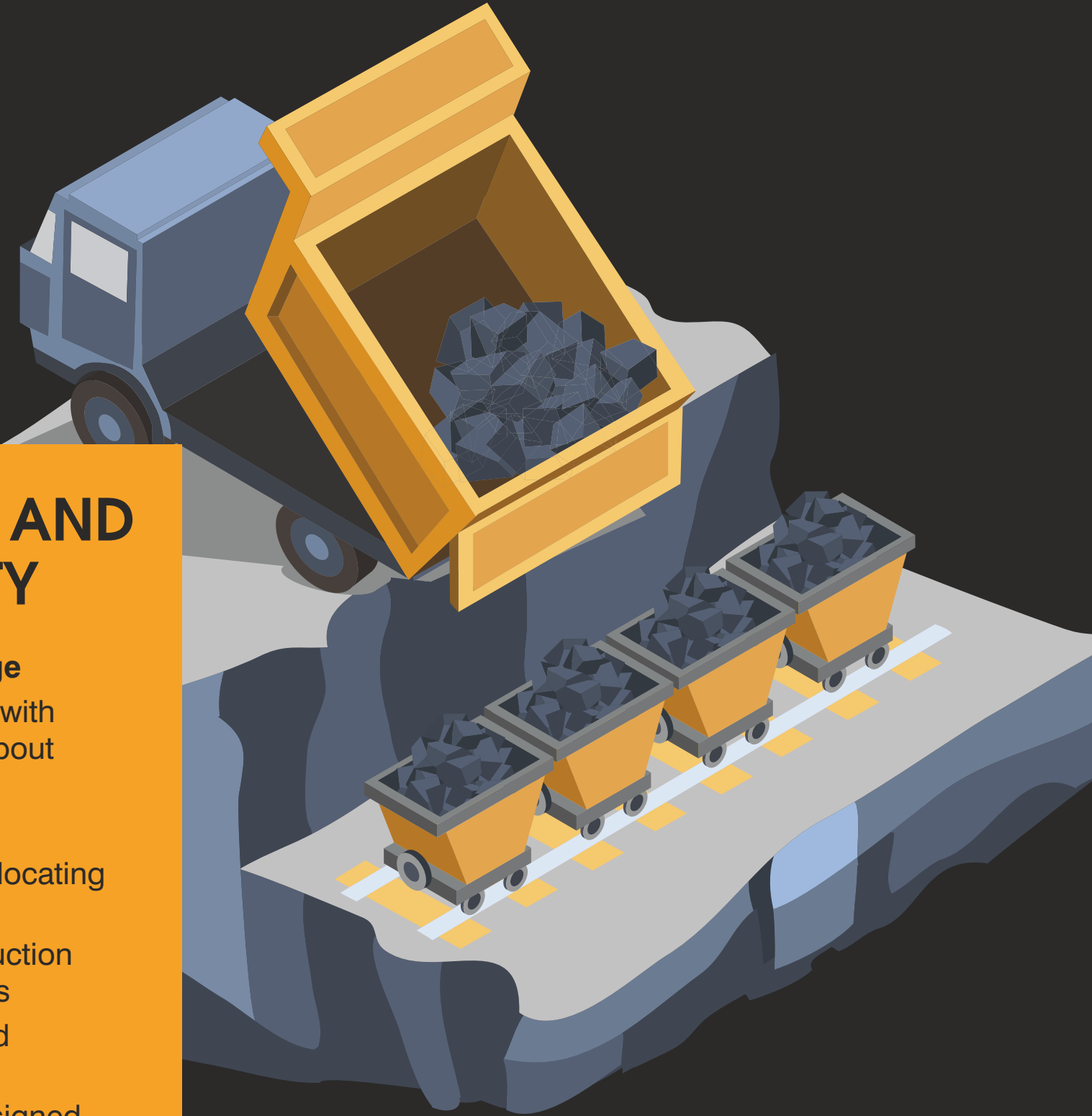
Rationalization of Coal Linkage

- Total rationalisation of 61 MT with annual potential savings of about ₹3,651 cr (till date)

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
- 18 Fuel Supply Agreements signed



TOTAL COAL LOADING HAS INCREASED



RAIL COAL SYNERGY

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

- Jharsuguda- Barpali (52 Kms) rail line in Odisha completed in March 2018
- Long awaited Tori-Shivpur (44 Kms) rail line in Jharkhand completed in September 2018

