

*“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



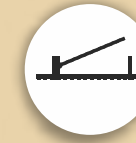
### LARGEST RECRUITMENT DRIVE OF ABOUT 1.5 LAKH NEARLY COMPLETED

Additional 2.3 lakh over the next 2 years



### SAFER CROSSINGS

All Unmanned Level Crossings on Broad Gauge network eliminated



### ELECTRIFYING RAILWAYS

100% electrification of Broad Gauge routes underway



### MAKE IN INDIA

First indigenous Semi-High Speed Vande Bharat Express





## SAFETY FIRST

**152**  
2013-14

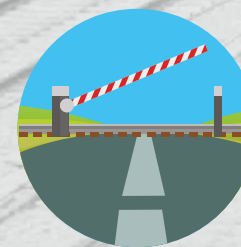
**29**  
2018-19\*

No of deaths

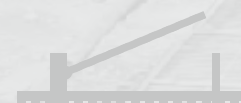
**Best ever safety record in 2018-19:**

81% drop in number of deaths

\*upto Jan 31, 2019



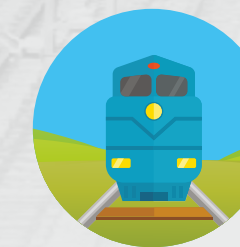
All Unmanned Level Crossings (UMLCs) on Broad Gauge network eliminated



**1,137 UMLCs** per year during 2009-14



**3,479 UMLCs** 2018-19



Speedy execution of rail renewals



**2,926 Kms** 2013-14

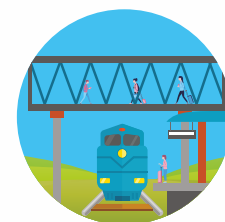


**5,000 Kms** expected in 2018-19

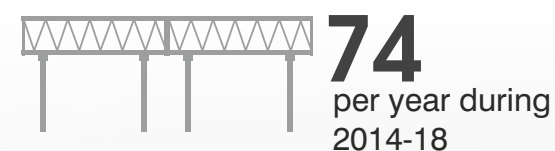
Stopped production of 50 year old design of ICF coaches

## SAFETY REIGNS SUPREME

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



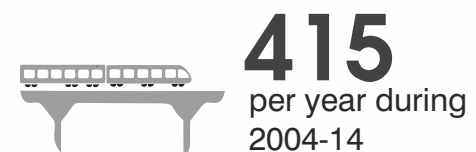
Focused attention on Foot Over Bridges and High Level Platforms



**3 times FOBs constructed per year**



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



**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

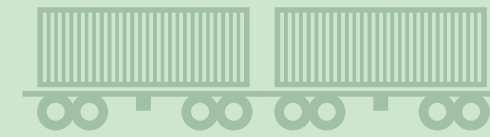
- Enhancement in safety
- Increase in capacity
- Improvement in punctuality
- Increase in speed



## 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



**1,052 MT** in 2013-14



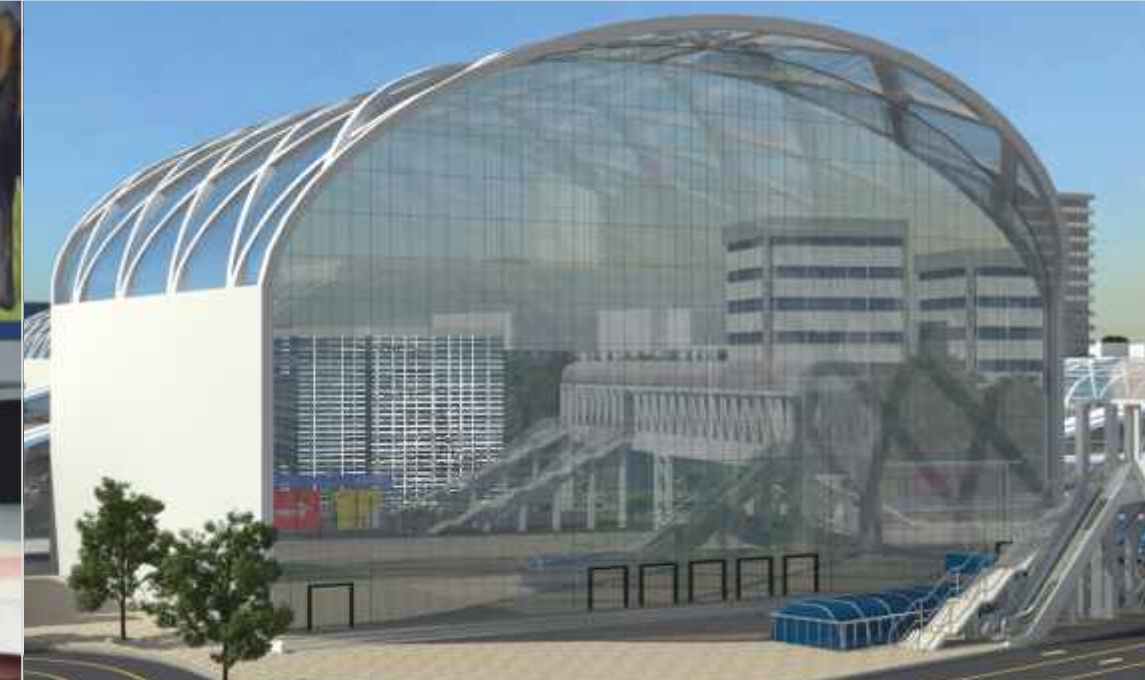
**1,216 MT** in RE 2018-19



## FREIGHT CORRIDOR: GATEWAY TO SUPERFAST GROWTH

Dedicated Freight Corridor (DFCs)

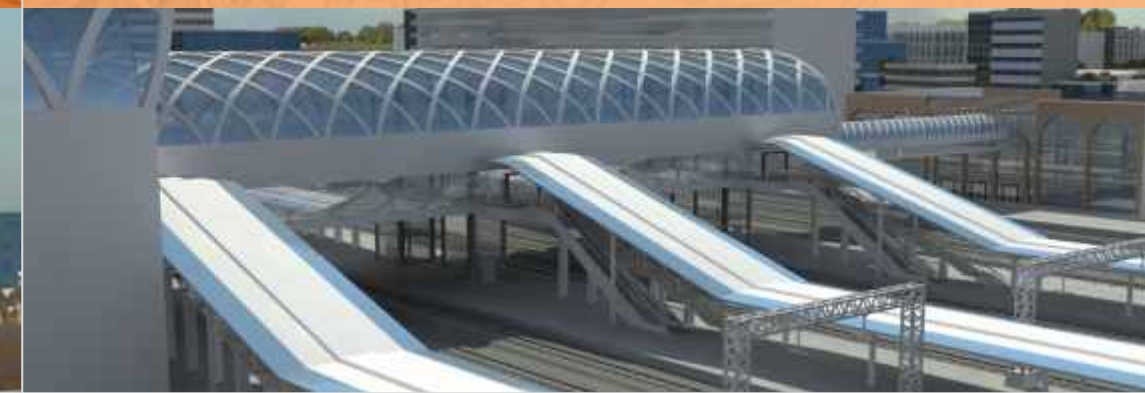
- First sections completed
  - Eastern DFC  
Bhadan to Khurja - 200 Kms completed
  - Western DFC  
Rewari to Madar - 306 Kms completed
- Entire DFC expected to be completed by 2020-21
- Ensuring rapid, seamless and easier flow of goods
- Economic development and job creation by connecting factories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



# STATION DEVELOPMENT

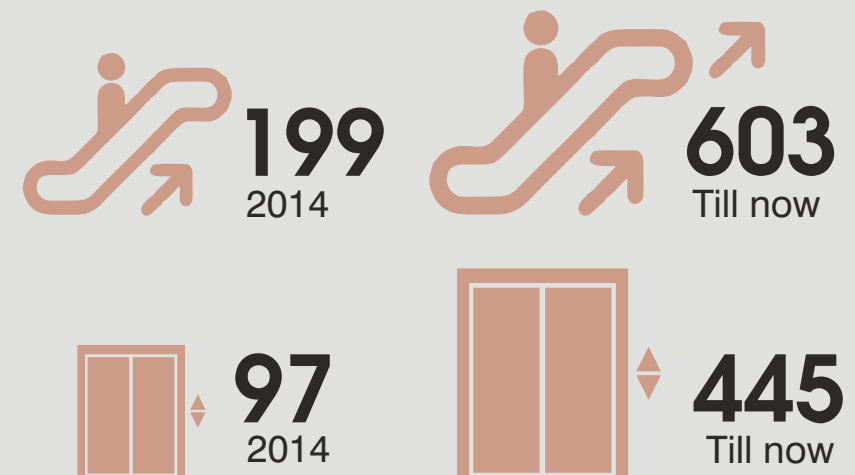
## PLATFORMS OF PROGRESS

- 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





# 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



एक कदम स्वच्छता की ओर

## 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

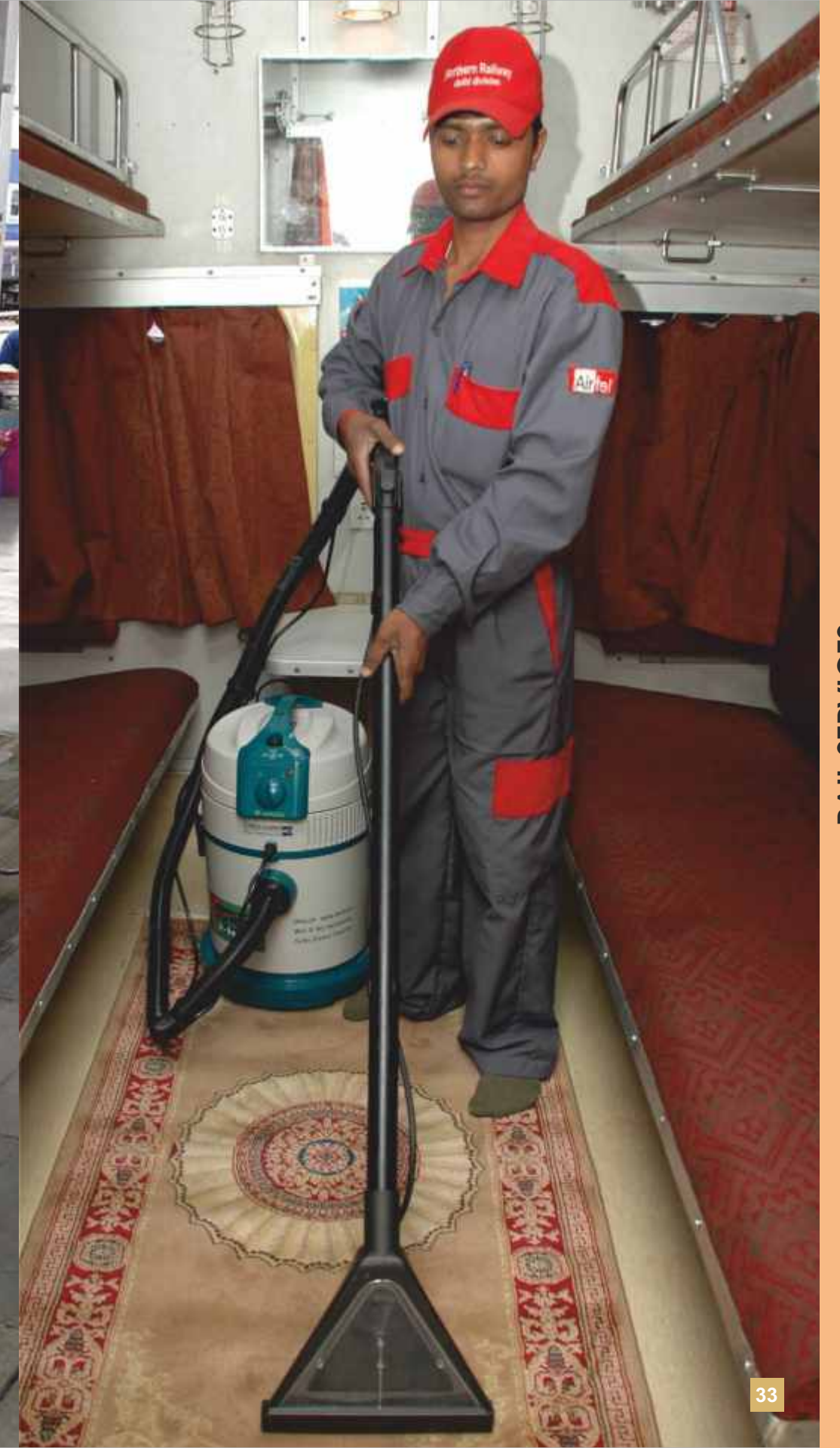
- Integrated mechanised cleaning at 697 Railway stations
- 3rd party survey on cleanliness at 407 major stations

## 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

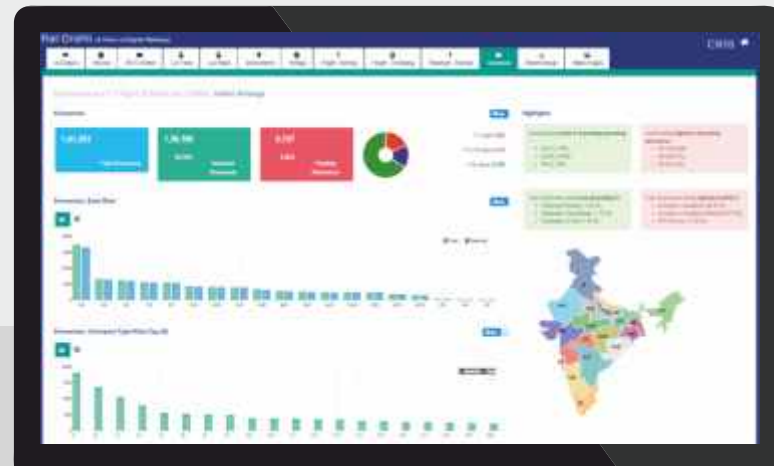
**Mata Chintpurni Shrine Connected:** Andaura-Daulatpur Chowk section of Nangal to Talwara Rail Line opened for direct access to Chintpurni Shrine in Una, Himachal Pradesh

- 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](http://raildrishti.cris.org.in)

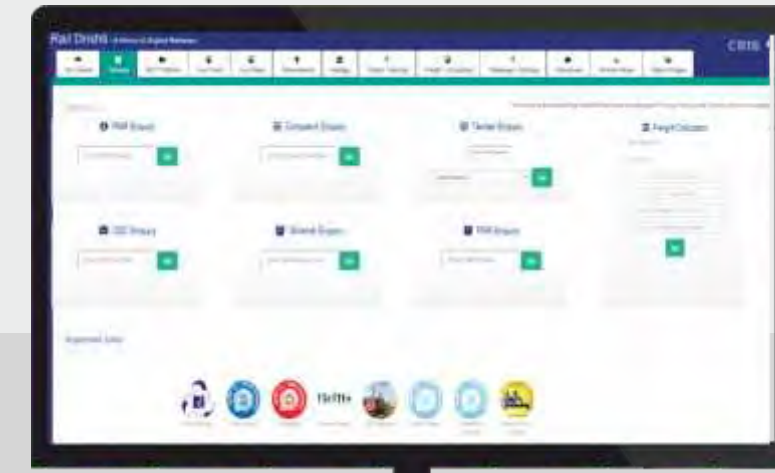
Will empower people with information



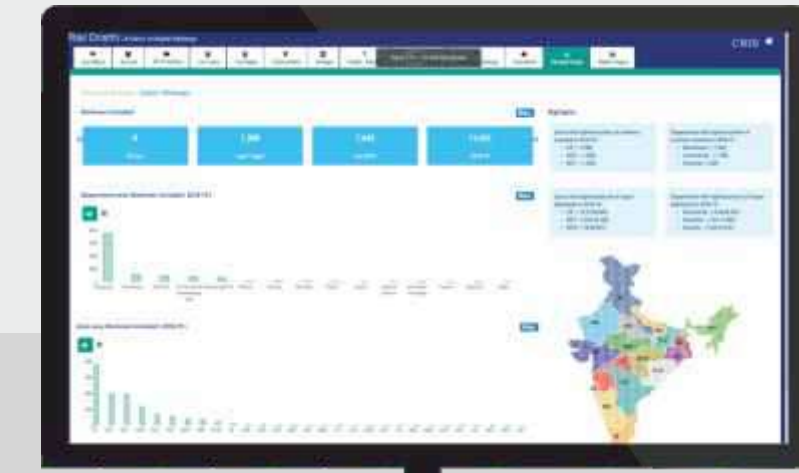
Grievances



Achievements



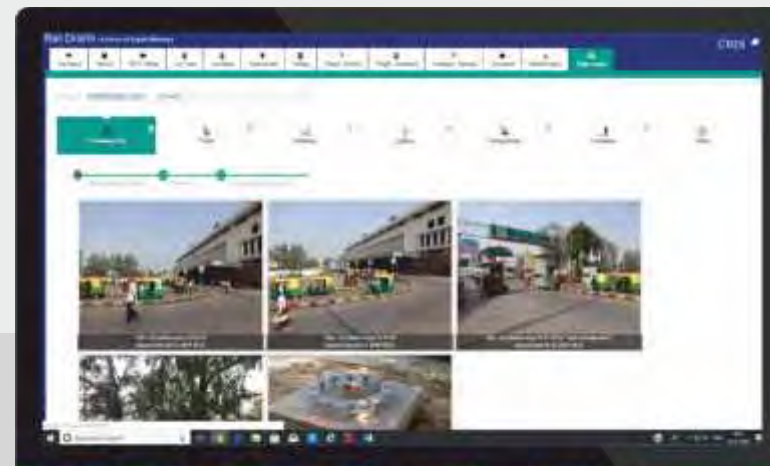
Services



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

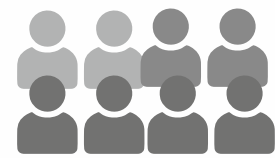
### Simpler approval processes in Research Designs and Standards Organisation (RDSO)

- 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

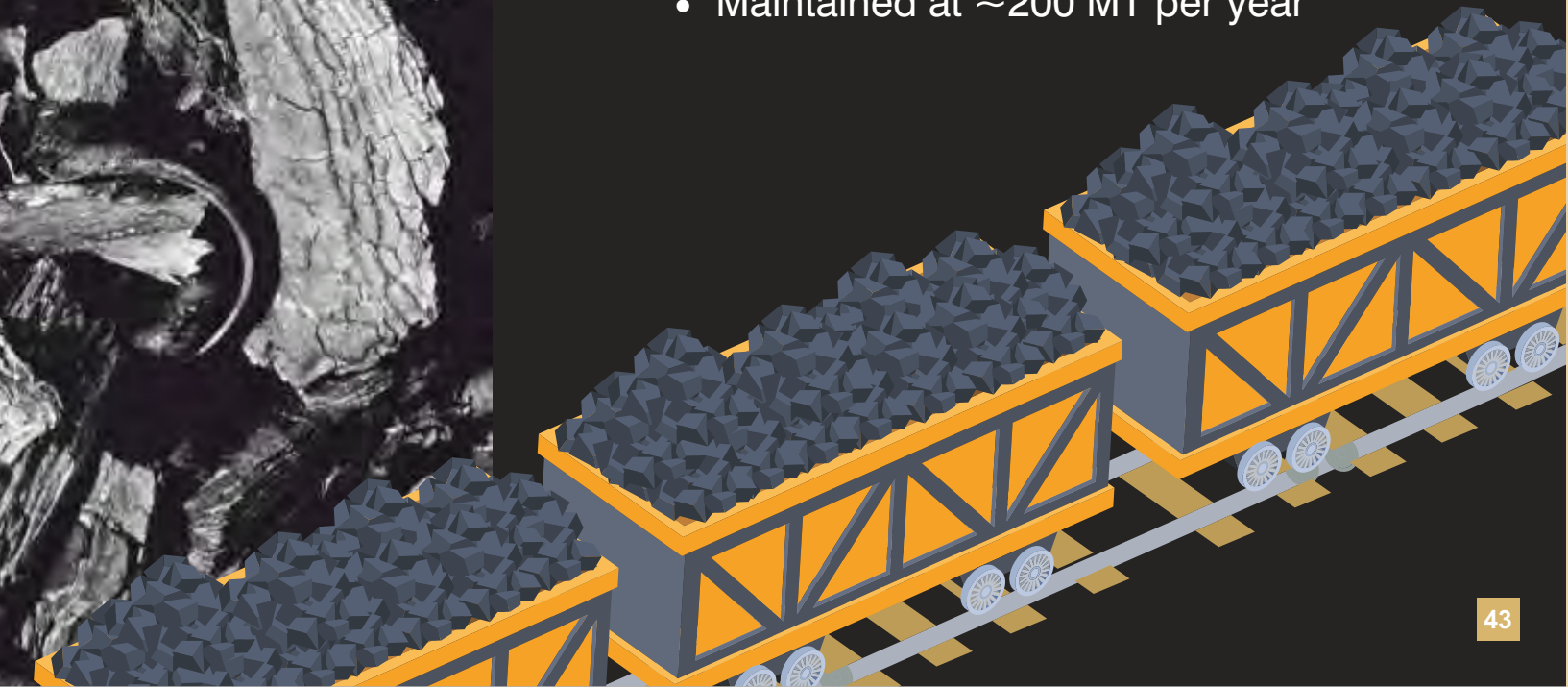
## ...As a result

### 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

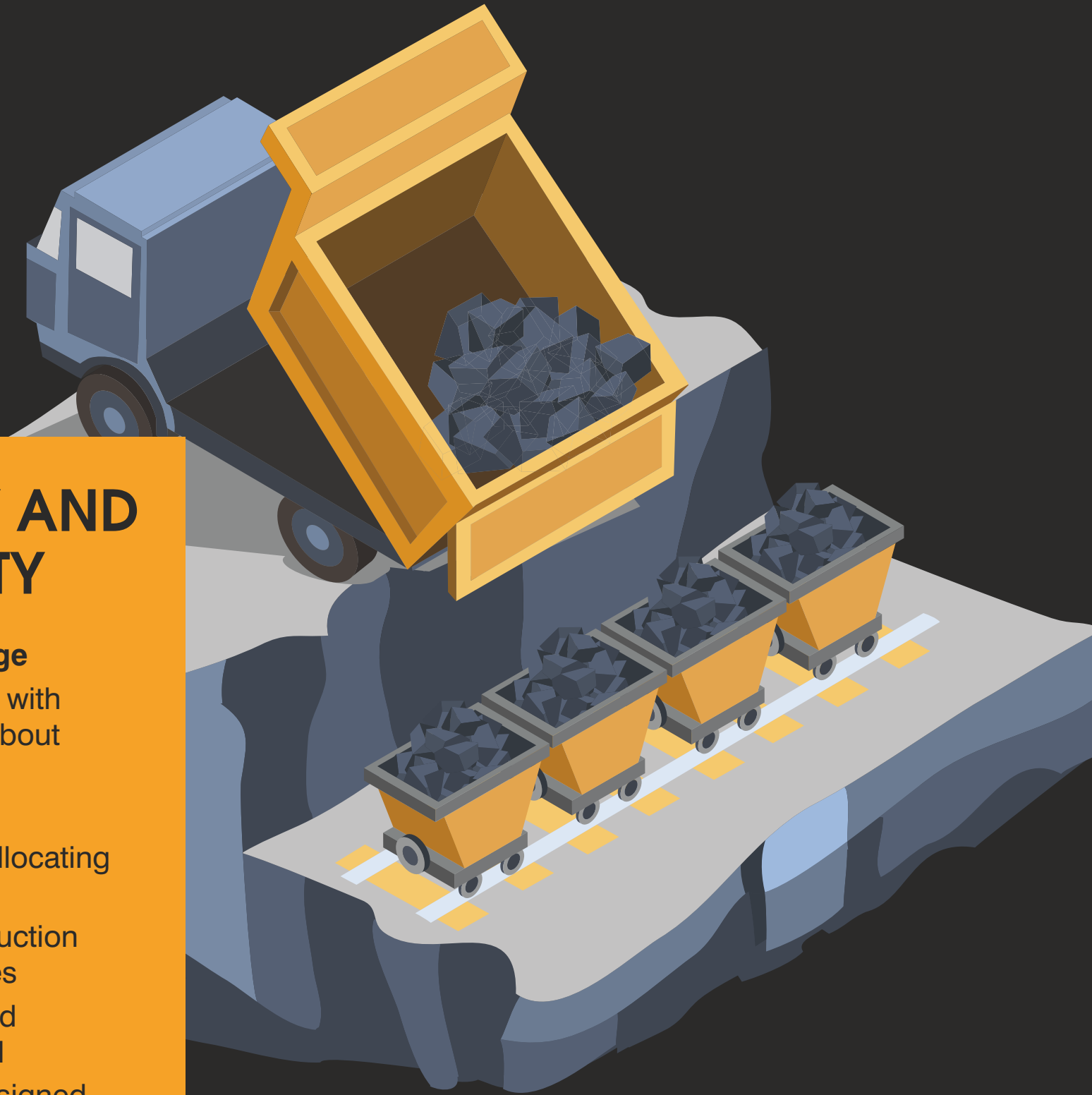
### Rationalization of Coal Linkage

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

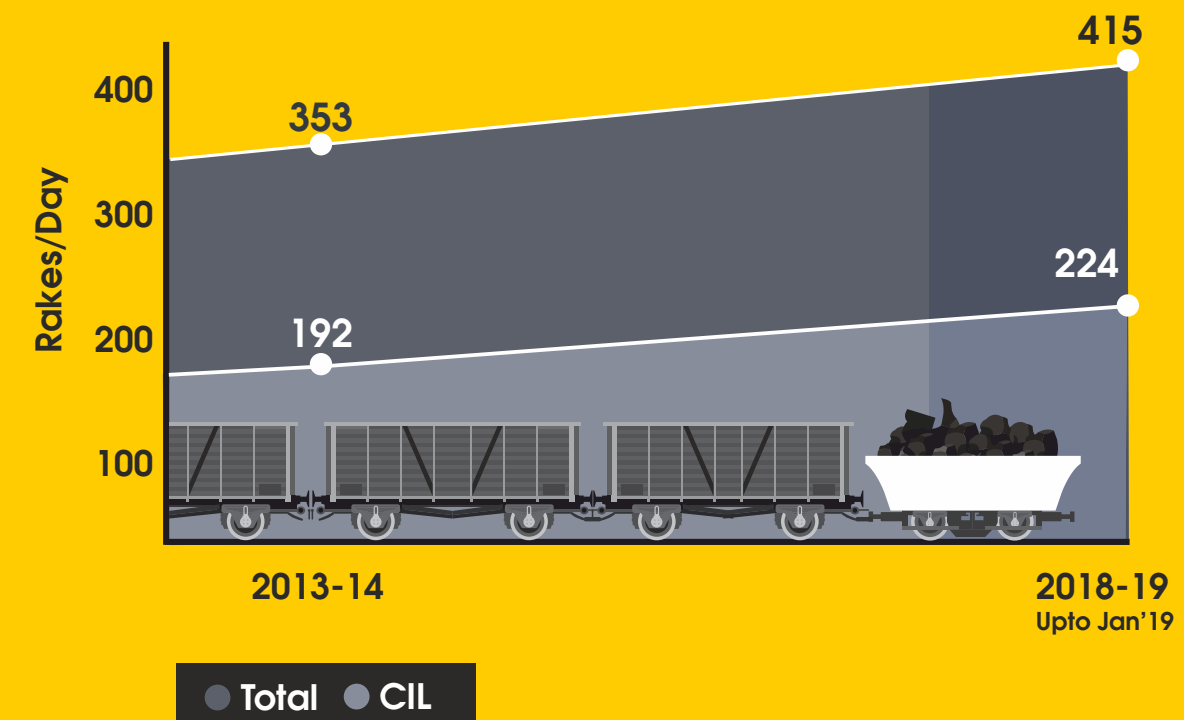
### SHAKTI

(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

