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INDIAN RAILWAYS

Perseverance, Pace, Progress



MOVING TOWARDS 360° TRANSFORMATION !

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Overview



- Network route kilometer : 1.16 lakh track km; 66,000 route km
- No. of trains per day : 13,000 passenger trains; 8,000 freight trains
- No. of stations : 8,000
- No. of employees : 13 lakhs approx (2nd largest employer in the country after Defence)

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World's largest passenger carrier

- Passengers carried – 822.7 crore in 2014-15
(largest passenger carrier in the world)
- 13,000 passenger trains daily
- Connecting over 8,000 stations



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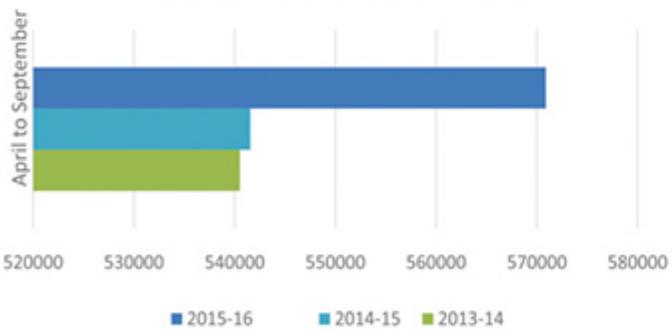
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Passenger

Passenger kilometers in millions



EARNINGS FROM PASSENGER OPERATIONS (APRIL-SEPT.)



*2015-16 data is from April-September 2015

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Largest Freight Transportation

- Freight carried – 1097.5 MT
(4th largest in the world)

- 8,000 freight trains daily

- Indian Railways carries

- 70% of Coal
- 87% of Fertilizer
- 81% of Iron ore
- 42% of Cement
- 17% of POL
- 20% of Food grain



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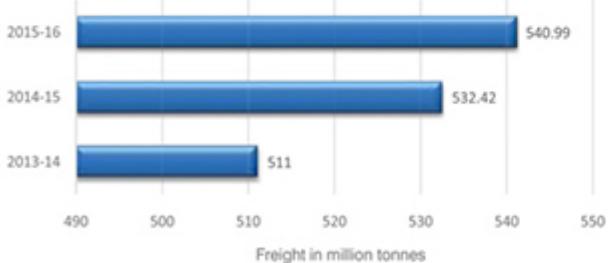
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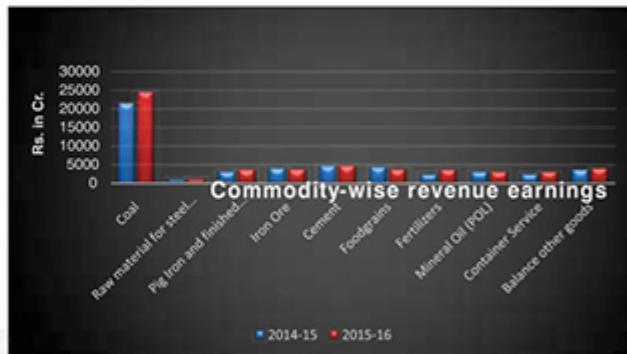
Freight

Movement of Freight
(April - September)



*2015-16 data is from April-September 2015

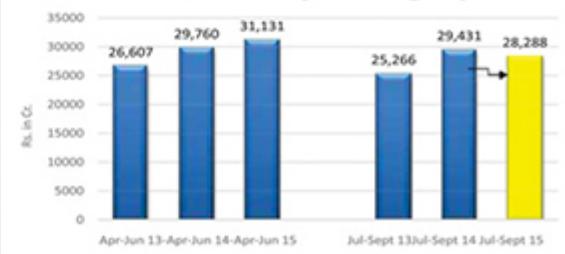
The commodity - wise performance of freight moved by Indian Railways is as under:



Expenditure

The working expenses grew by only 0.39% for the period April-September 2015 over the corresponding period in 2014.

Trends in Ordinary Working Expenses



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Connectivity



Path-breaking steps in Budget 2015-16

Key features

5 year masterplan - investment of Rs. 8.56 lakh crore; dovetailing annual budget to medium term goals

Quantum jump in 2015-16 Plan Outlay to > Rs. 1 lakh crore – 2014-15 Plan Outlay Rs. 65,445 crore (BE)

1st innovative financing - mix of enhanced budgetary support, internal generation, institutional financing & PPP

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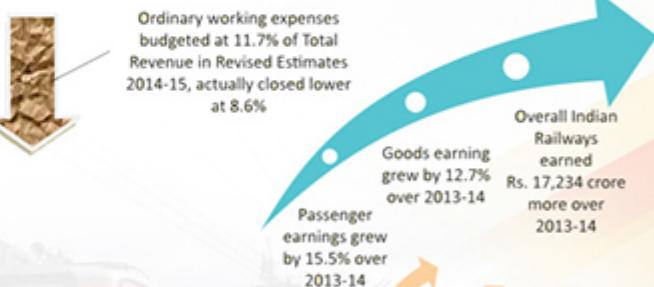
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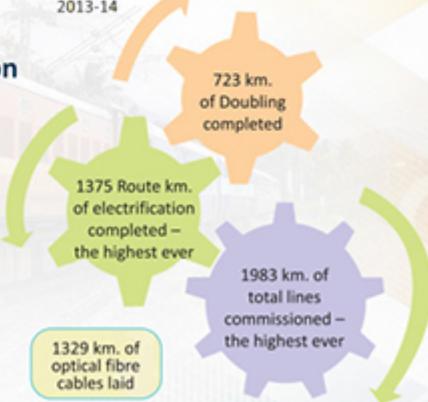
Financial Performance 2014-15



For the first time
in the last 7 years
Operating Ratio has
surpassed the
BE target in
2014-15



Infrastructure Creation



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Major Achievements : Making Travel Comfortable

- Generated 66,456 berths by augmenting 884 coaches on a permanent basis which includes 390 general second class unreserved coaches.
- 65,362 temporary coachtrip have been provided that is equivalent to 3600 new trains
- Installed 2,500 water vending machines at stations.
- For the first time, we provided mobile charging points in general class coaches in all new coaches and the plan is of retro-fitment in old coaches.
- Provided dustbins in all new non-AC coaches
- Enabled online booking of retiring rooms
- Mechanized laundries were proliferated to provide clean and hygienic bed rolls. Disposable bed rolls are now available at select stations to all classes of passengers.

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Unprecedented Achievements: Operation 5 minutes

- 2,000 Automatic Ticket Vending Machines and 225 cash-coin & smart card operated ticket vending machines
- Mobile based apps for purchasing unreserved and platform tickets
- GoIndia smart card scheme for cashless purchase of UTS and PRS tickets
- Multi-lingual e-ticketing portal

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Unprecedented Achievements: Security

- 24x7 helpline number 182
- CCTV surveillance provided at 311 stations. All major stations to be brought under CCTV surveillance in phased manner
- CCTV cameras were installed in Mumbai Suburban trains
- Over 18,000 RPF personnel were recruited for train escorting

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Unprecedented Achievements: Connectivity to North East and J&K

- All State Capitals in North East to be connected by Rail in next 5 years
- Brought Agartala, the capital of Tripura on Broad Gauge Network
- In the state of Manipur, Broad Gauge connectivity has been done. Arunachal-Jiribam Gauge connectivity is also completed. By March 2016, Mizoram-Kathakal connectivity is set to be completed.
- Lumding-Silchar section in Assam opened on Broad Gauge thus connecting Barak Valley with rest of the country
- Rail connectivity in J&K is also a focus area - Work on Katra-Banihal section of Udhampur- Srinagar-Baramulla Rail Link Project is progressing well (35 Kilometers of tunneling, out of total of 95 Kilometers has been completed successfully)

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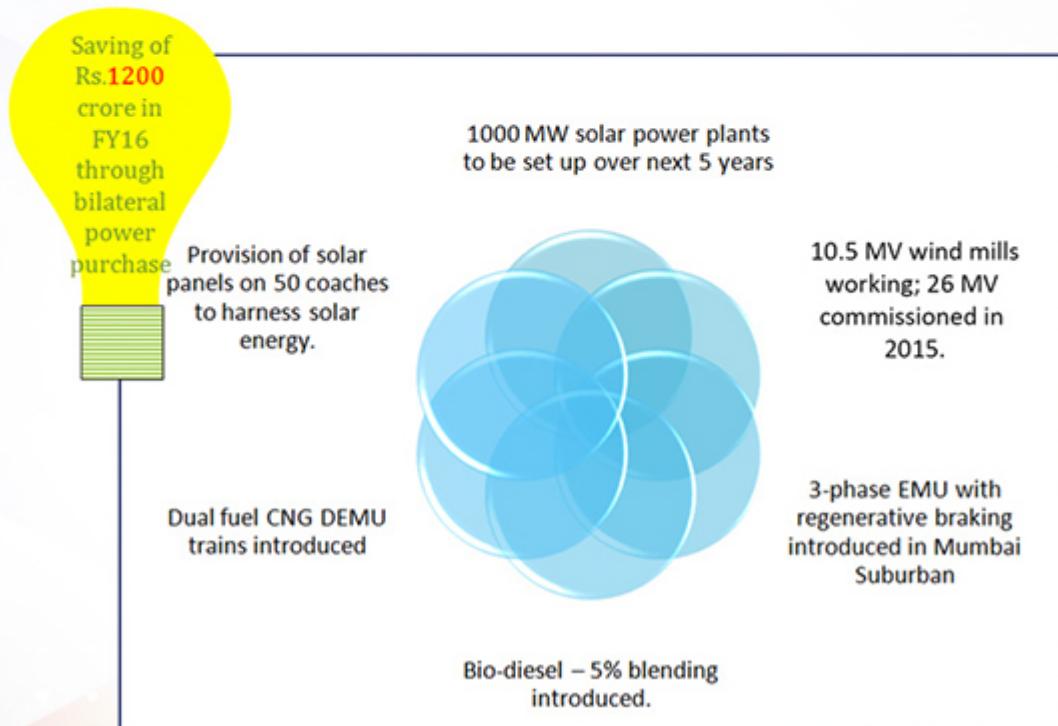
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Unprecedented Achievements: Energy efficiency measures



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Major Achievements: Environment Initiatives

Environmental Initiatives

- A new Directorate of Environment created.
- A new Directorate for House - keeping set up.
- Visible improvement in cleanliness at stations as part of Swachh Bharat.
- Bio-toilets: 10500 Bio-toilets have been fitted in 3240 Coaches; 32.4% more than the corresponding period of last year.
- First ever in the world, bio-cum-vacuum toilet system introduced on Dibrugarh Rajdhani for trial.
- 1000 MW solar power plants being set up over next 5 years; 10.5 MW already set up; in 2015-16, additional 6.5 MW will be set up; PPP model finalized.
- 10.5 MW wind mills already working; 26 MW commissioned in 2015.
- 3-phase EMU with regenerative braking introduced in Mumbai Suburban service.
- Saving of Rs.200 crore in the financial year through direct bilateral purchase of power.
- Bio-diesel – 5% blending introduced.
- Dual fuel CNG DEMU trains introduced.
- Action Plan on Environmental Accreditation, Water Management and Waste to Energy conversion formulated.
- EoI issued on 05.08.15 for disposal of MSW in an Environment friendly manner by setting up pilot plants on Waste to Energy.

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Unprecedented Achievements: Make in India



Contract awarded
for Loco factories at
Madhepura &
Marhowra
after 7 years.

Significant part of equity
expected through FDI
Order book of Rs. 40,000 cr

200 Locomotives (9000 HP) being
procured for
Western DFC
costing over Rs.
5000 crore; bid
under evaluation

Train sets for
improving
passenger
comfort &
reducing travel
time; Financial
bids expected in
February 2016

Rail Coach Factory
at Kanchrapara –
Fresh RFQ
applications
called. Will be
opened in
February 2016

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Major Achievements: Fast project delivery

Improvements in Project Delivery

- 80 capacity enhancement projects included in the Budget 2015-16.
- Out of total 80 new projects announced in Budget 2015-16, DPRs for 73 projects have been received from Zonal Railways, of which 37 DPRs already sent to NITI Ayog and approval of 15 projects received from NITI Ayog.
- All tender-related powers delegated to General Managers.
- All powers to sanction estimates delegated.
- Time period for project commencement since inclusion in budget compressed to 6 months from 2 years earlier.
- Timelines have been set with the objective of fixing contractual agency and commencing execution at the start of working season.



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Major Achievements: Improved transparency

Transparency

- New transfer policy for officers issued.
- E-procurement and e-tendering system
- Sale of scrap is 100% computerised through E-auction.
- introducing E-tendering in works contracts
- IR has decided to switch over to EPC mode of tendering to expedite project execution.
- Online examination for recruitment in 54 categories.
- Structural changes in Engineering Services Examination(ESE) and its syllabi.
- Question paper, answer sheet of the candidates and answer keys for SSE JE examination 2015 have been uploaded on RRB websites for self-check by candidates.
- New RRB Manual has been issued after a gap of 15 years.



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Achievements: Asset Creation

Asset Creation

- Commissioning of New Lines, Doubling and Gauge Conversion: 2003 km. has been done in the current year as against 1626 km. in previous year.
- There has been 87.22% growth in electrification from April to September 2015 in route kilometers in comparison to previous year. 498 km. done this year as against 266 km. in corresponding period last year.
- Against 2715 km. of Track Renewals/replacement during previous year, 2800 km. has been done in the current year.
- Long pending Agra-Etawah new line (108 km.) commissioned.
- Loharu-Sikar GC (122 km.) commissioned.
- Dallirajhra-Dondi (17 km.) new line commissioned in Chhattisgarh.
- Port connectivity to Tuna Port provided.

- Key performance Indicators.

S. N o.	Item Description	Progress during Nov'13 to Sept'14	Progress during past one year (Nov'14 to Sept'15)
1.	Commission of New Lines, Doublings and Gauge Conversion Projects	1626 km.	2003 km.
2.	Track Renewals/ replacements	2715 km.	2800 km.
3.	Offering of Engineering Scrap	5.89 lakh MT	6 lakh MT
4.	Closure of Level Crossings (LCs)	310 Nos.	340 Nos.
5.	Elimination of Unmanned LCs (Nos.)	1100 Nos.	1150 Nos.
6.	Construction of ROBs (Nos.)	221 Nos.	176 Nos.
7.	Construction of RUB/ Subways (Nos.)	1011 Nos.	840 Nos.
8.	Sanction of new ROBs/ RUBs	35 Nos.	970 Nos.
9.	Technical approvals to States for Metro related issues	22 Nos.	25 Nos.
10.	Trials of new technologies	4 Nos.	12 Nos.
11.	Traffic facility works completed	47 Nos.	100 Nos.
12.	Land Earnings	1200 Cr.	1400 Cr.
13.	Sleeper Utilisation	47 lakh	56 lakh
14.	Rail/Weld Failures	4076 Nos.	3800 Nos.

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Indian Railways: delivered most of last year's promises

139

Budget announcements
implemented

+47%

Increase in Doubling Kms
(till Dec vs last year)

+162%

Increase in New line Kms
(till Dec vs last year)

+23%

Increase in gauge
conversion Kms (till Dec vs
last year)

+47%

Increase in Electrification
Kms (till Dec vs last year)

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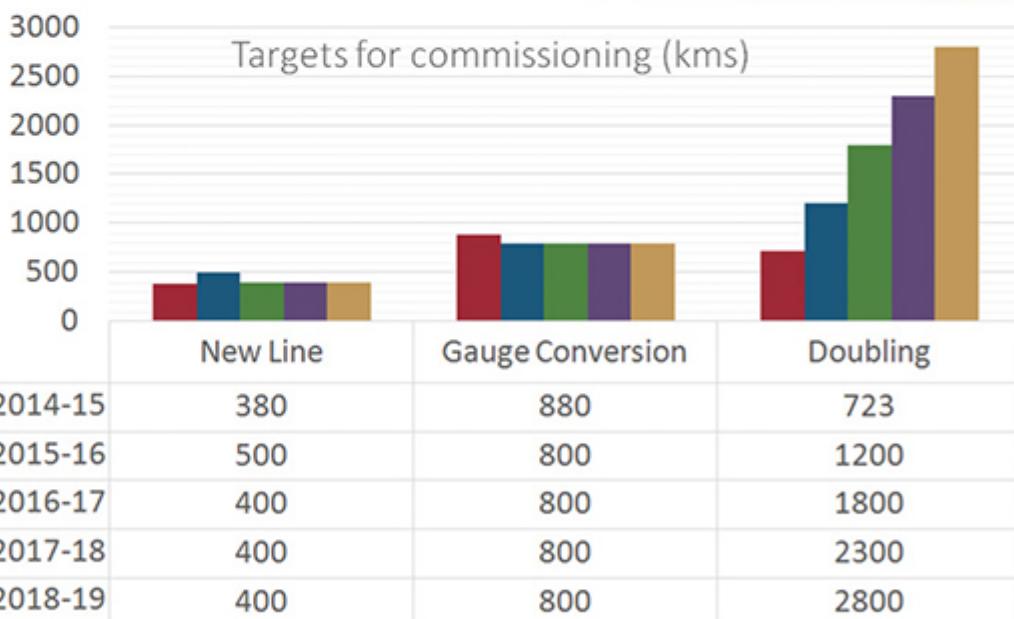
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Physical Targets

Unprecedented progress planned in next 5 years



About 500-600 km doubling & 100 km gauge conversion to be commissioned every year through Railway PSUs

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Overall Vision

Parameter	Current Performance	Targeted performance 2019	Targeted Performance 2024
▪ Modal Share (Freight)	▪ 30%	▪ 38%	▪ 45%
▪ Freight loading (MT)	▪ 1115 MT	▪ 1800 MT	▪ 2600 MT
▪ Passengers	▪ Supply constraint	▪ 50% additional capacity	▪ Berth on demand fully operational
▪ Non fare revenues	▪ 3-4%	▪ 20%	▪ 25%
▪ Average speed – Freight (Kmph)	▪ 25 Kmph	▪ 50kmph	▪ 75 kmph
▪ Top speed – Mail/Express (Kmph)	▪ 120 Km/h	▪ 160 Km/h	▪ 200 Km/h
▪ Punctuality	▪ 80%	▪ 95%	▪ 99%

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Initiatives Works under progress

Station Development

- Model concession agreement and Development agreement drafted.
- Call for RFQ applications for Swiss challenge targeting 400 stations in 2-3 months.
- First station (Habibganj) contract to be awarded in soon.
- RFQs invited for Anand Vihar, Bijwasan, Surat, Gandhinagar also at advanced stages.

Process improvements

- EPC contract structures shared with zonal railways. Tendering to commence soon.
- E-tendering of works contract to commence from Feb.

Rail Development Authority

- Public comments being received on the concept note. Cabinet note to be submitted in 45 days.

High speed trains

- Bullet train - New company to be registered this month. Construction to commence by 2018.
- Semi high speed: Formal approvals for running at 160Kmph completed. Service to be launched by March on Delhi – Agra route.
- Semi high speed – Delhi-Ambala and Delhi-Kanpur also being upgraded for 160 Km/h.