



**Presentation by**

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**Introduction - Formation of RailTel**

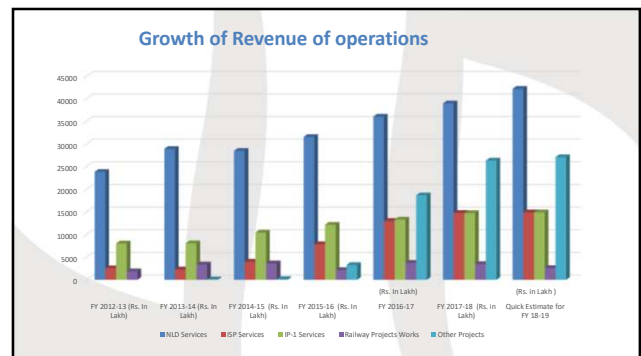
- In pursuance of National Telecom Policy 1999, and opening of Telecom sector, RailTel was created as Schedule 'A' PSU on **26<sup>th</sup> SEP'2000**.
- **Objectives:**
  - To facilitate Railways in expeditiously modernizing train operation and safety systems by providing state of art communication network infrastructure.
  - To develop, operate and maintain a nationwide broadband telecom and multimedia network to supplement national telecom infrastructure in all parts of country specially rural, remote and backward areas.
  - To generate revenue through commercial exploitation of its surplus capacity.

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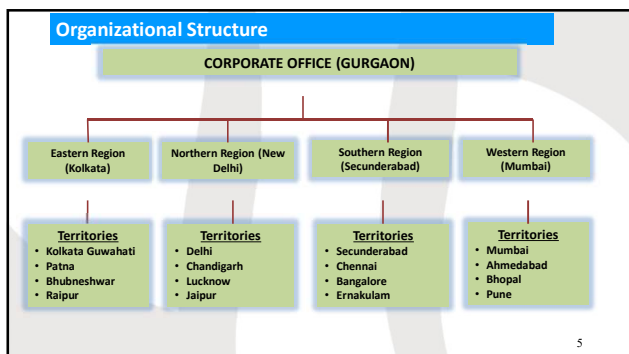
**Introduction**

- Revised Agreement with Rlys Signed in Oct 2006 for 30 yrs
- Exclusive Right of Way along Railway route & land to RailTel.
- RailTel to pay 7% revenue share to Rlys in lieu of RoW.
- Authorised capital ₹ 1000 Cr., Paid up capital ₹ 321 Cr. (seed ₹ 15 Cr. & ₹ 306 Cr. by assets).
- Provide Bandwidth, data, internet & value added services to Rlys
- Dividend paying Company since FY 2008 & Debt Free (Loan of ₹ 400 Cr. taken from IRFC/SBI has been repaid).
- Holds National Long Distance (NLD), Internet service provider (ISP), International long distance (ILD) licenses and IP-1 registration from DoT.
- Revenue share of 8% payable to DoT.

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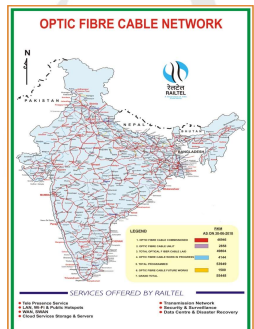
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**Network Infrastructure**

- OFC along IR network – 49,800 RKM
- OFC connectivity at – 4500+ Rly stn. (600+ stations on long haul)
- 3 Layer Network (Core, Distribution, Edge)
- High capacity backbone – 25,000 KM across 100 cities (n x 100G & n x 10G capacity)
- Data Network (80 Core & 400 edge location)
- Tier 3 Data Centre at Gurugram & Hyderabad
- CNOC at Delhi & 4 NOCs (Mumbai, Delhi, Kolkata & Secunderabad)

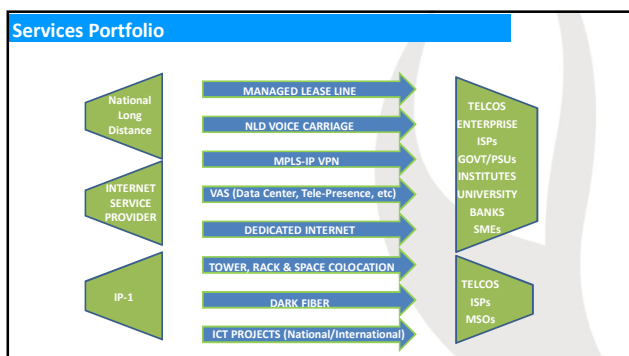


**OPTIC FIBRE CABLE NETWORK**

**SERVICES OFFERED BY RAILTEL**

- Long Distance Network
- Data Centre & Cloud Services
- Networked Network
- Data Centre & Disaster Recovery

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**Data Center (Tier-III certified)**

• **Uptime USA Design Tier-III Certification**  
 • **8th Data Center in India to be Tier-III certified**

**Services:**

- Co-location Hosting
- Managed Services
- Cloud computing Services
- Disaster Recovery Sites
- Other related services
- Internal use (ERP)

**Data Centers at**

- SECUNDERABAD
- GURGAON

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**Services to Railways**

- OFC laying projects (as per pink book)
- Nation-wide Railway backbone network with STM-4/600Mbps capacity.
- Railway Station Wifi (1600+ at present)
- MPLS Data Network for IPAS, TMS, UTS, FOIS, AFRES, COIS, etc.
- MPLS VPN for Railnet aggregated to over 14 Gbps capacity and Internet to over 10 Gbps capacity
- RailCloud in Data Centre.
- Managing Mobile CUG connection for 3.8 Lac employees.
- NLD for Railway exchanges on RailTel's NGN.
- DSLAMs for Broadband at Railway colonies with 30,000 connections.
- eOffice Project, RDN, CDN Projects

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**Station Wi-Fi**

- 400 'A1' & 'A' category stations.
- Agreement with Google for Technology & Radio Access NW.
- RailTel to build OFC access N/W at Stns & provide IBW & ISP services
- 60 Lacs variable users per month with 15000 daily new additions.
- Small stations under CSR
- 1600+ completed

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**REL - subsidiary**

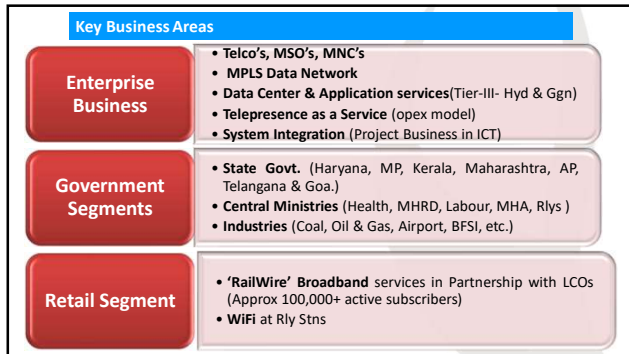
- ❖ RailTel incorporated a wholly owned subsidiary Company in August, 2014 by the name "RailTel Enterprises Limited" (REL).
- ❖ With Objective to diversify into ICT project segment as a System Integrator and to exploit the capabilities and experience gained by RailTel for expanding activities in project execution works for telecom and signaling.
- ❖ With Aim to be one of the leading System Integrator in the country working in the field of ICT
- ❖ IT Business Revenue for FY 2018 – 19 is 35 to 40 Cr.

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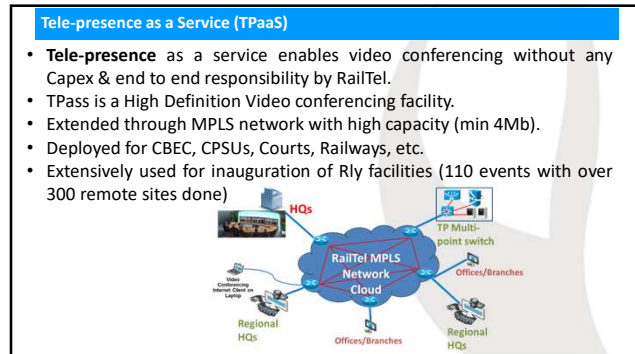
**REL Signaling Project Business**

- ❖ REL Signalling Unit has been awarded the first-ever Signalling Work of Indian Railways @ total cost of **Rs. 86.32 Cr (approx.)**.
- ❖ REL has also been assigned the Project for Execution of European Train Control System in 4 Sections of 4 Different Zones over 641 km at cost of 1800 Cr. It will help reduce congestion in rail network and increase line capacity, help to increase average speed of trains due to automation of train operations and enhance safety.

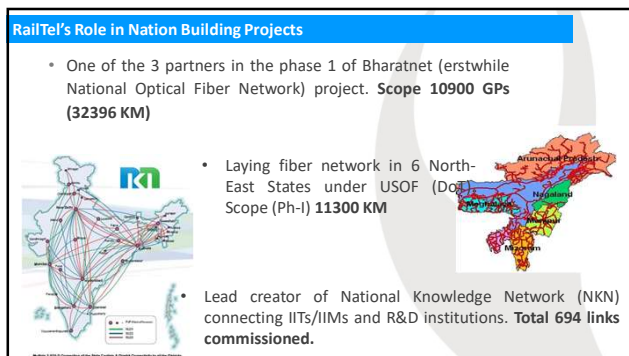
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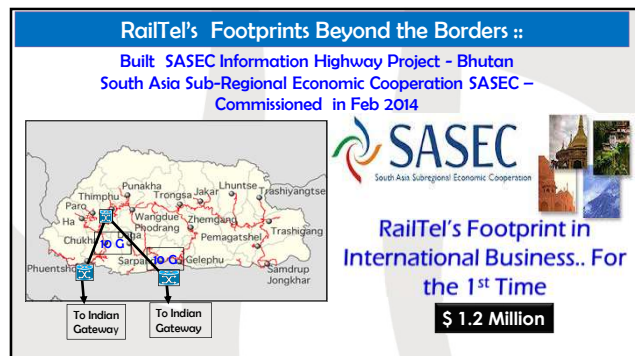
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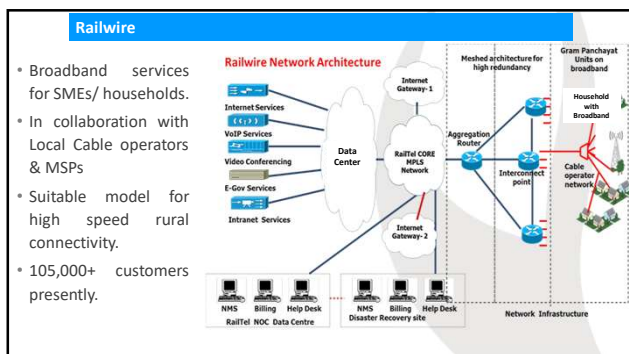
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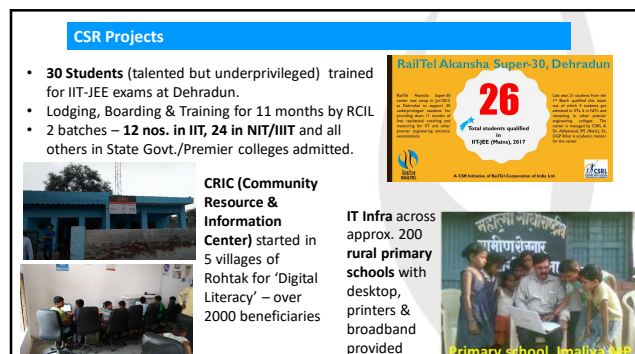
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### Key Achievements

- RailTel diversified in Govt. & enterprise segment with ICT & System Integration Business.
- Conferred Mini Ratna (Category-I) status by the Govt. in May, 2012
- Received "Excellent" MoU Rating since last 4 years (2012-13, 2013-14, 2014-15, 2015-16 and 2016-17).
- Paid back to Rly total ₹ 375 Cr. (₹ 207 Cr. as rev share & ₹ 168 Cr. as Dividend)
- Average per Employee contribution Rs. 1 Cr. + to turnover and Rs. 30 Lacs to PBT.
- Implemented ERP in 11 months across all departments & offices ensuring transparency & efficiency.
- Created a subsidiary 'RailTel Enterprise Ltd.' to take up ICT & Railway projects.
- Own building created in Gurgaon. CNOC at Shastri park (Delhi Metro). Space at NBCC, Kidwai Nagar for Corporate Office (near to Central Delhi).

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### Recognitions

#### National Recognition

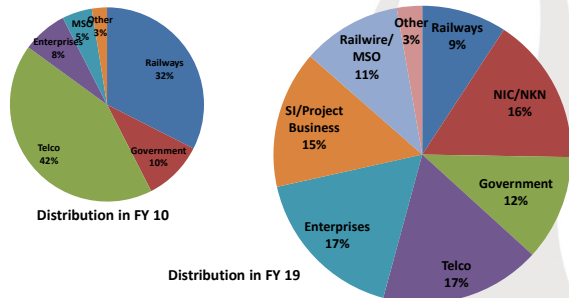
- 50+ awards in last 5 years from Industry.
- **Times Ascent** (Best HR Practice), **SCOPE** (Best Social PR), **ET Telecom** (Best Carrier, Best CSR), **Voice & Data** (Railwire & TPaaS services), **ICAI** (Cost Management)

#### Global Recognition

- **World Bank** in its report on "Attracting Capital for Railways in China" included **RailTel as a powerful example in India** of a public utility for successfully monetization & infra sharing of telecom assets.
- **Oracle Inc** recognized RailTel as best Govt. organization in India to implement ERP in 11 months

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### Present Segment wise Income Distribution



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### Digital India Initiative - Railwire Saathi



- A concept to promote digital literacy
- Capex from USOF required (as a pilot already 200 stn. WIP)
- Railwire Saathi stalls proposed at approx. 4000 rural stations.
- Railways to provide space free/nominal value.
- To employ VLE (Village Level Entrepreneur) for management.
- VLEs shall facilitate digital literacy and help various people in availing e-Gov services like Jandhan, Siksha, Skill India and Agricultural services.

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**AVAILABLE SERVICES  
THROUGH NOFN PILOT PROJECT  
IN PANISAGAR RD BLOCK**






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**A Services Provided at Panisagar Block-**

- 1 Aadhaar status enquiry and E-Aadhaar Download
- 2 Accessing e-Mail service
- 3 Exam Result enquiry
- 4 Net surfing by students for academic work
- 5 Online Newspaper Reading
- 6 Online submissions of Forms/ Applications
- 7 Online Passport Apply
- 8 Update Aadhaar Data
- 9 Video calling with friends
- 10 Online NBA (Nirmal Bharat Abhiyan) data entry
- 11 Online ROR (Return on Revenue) new Entry, Update, Correction
- 12 Online PRIYASOFT (Panchayat Raj Institution Accounting Software)entry
- 13 Computer Education to the local people Digital Knowledge Centre
- 14 SBI Account Create (on Zero Balance) By Digital Knowledge Centre
- 15 APNA Service by Digital Knowledge Centre

**Training from NIC SHQ Agartala – For Tehsildars to maintain land record services**



**Training from Krishi Vigyan Kendra Panisagar To farmers regarding Vermi Production**

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**Continued...**

**B Services Provided at Gram Panchayats-**

- 1 Aadhaar status enquiry and E-Aadhaar Download
- 2 Air/ Railway ticket booking/ Enquiring PNR status
- 3 Exam Result enquiry
- 4 Net surfing by students for academic work
- 5 Online Newspaper Reading
- 6 Online submissions of Forms/ Applications
- 7 Online MGNREGA (Mahatma Gandhi National Rural Employment Guarantee Act) Data entry
- 8 Passport status enquiry
- 9 Update Aadhaar Data
- 10 Video calling with friends and relatives outside
- 11 Accessing e-Mail service
- 12 Online Banking
- 13 Online Mobile/Dish TV recharge

**Video call between IT Manager/ Agnipasa and Jalabasa GP on 14.02-15 with CMD/RailTel**



**Tripura Gramin Bank, Extn Counter at Jalabasa CSC (Common service centre) during transaction of money**






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**Continued...**

**C Services Provided at Health Centres-**

- 1 Telemedicine Service
- 2 MCTS (Mother & Child Tracking System) Status Update
- 3 Accessing e-Mail service
- 4 Upload Daily Data to the State Medical Portal

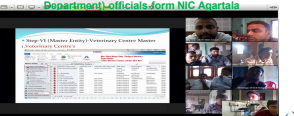


**E-OPD services from Panisagar VHC (Village Health Centre) to West Panisagar GP**



**D Services Provided at Vet Sub Center-**

- 1 NADRS (National Animal Disease Reporting System) Data Entry
- 2 Net surfing by students for academic work
- 3 Update Aadhaar Data
- 4 Online Mobile/Dish TV recharge
- 5 Aadhaar status enquiry and E-Aadhaar Download

**Training for NADRS (National Animal Disease Reporting System) to ARDD (Animal Resource Development Department) Officials from NIC Anantala**

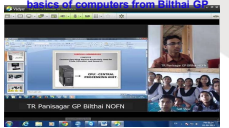
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**E Services Provided at DKC (Digital Knowledge Centre) Jalabasa-**

- 1 Computer Education to the local people Digital Knowledge Centre
- 2 SBI Account Create (on Zero Balance) By Digital Knowledge Centre
- 3 APNA Service by Digital Knowledge Centre
- 4 Aviva Insurance Service Digital Knowledge Centre
- 5 Online Mobile/Dish TV recharge
- 6 Aadhaar status enquiry and E-Aadhaar Download
- 7 Online Newspaper Reading

**Training provided to students regarding basics of computers from Bilibai GP**



**Classes of Fundamental of Computers from Panisagar GP with Panisagar HS School**

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**Continued...**

**F Services Provided at High Schools-**

- 1 Net surfing by students for academic work
- 2 Exam Result enquiry
- 3 Online Newspaper Reading
- 4 Online Classes

**Special Coaching Class conducted from Panisagar HS School to Madhyamik 2014 appearing candidates**



**G Services Provided at e-Shubidha (SDM Office)-**

- 1 PRTC Certificate Apply
- 2 Caste Certificate Issue
- 3 Income Certificate Issue
- 4 Survivor Certificate
- 5 OBC Central/ OBC State

**Student Enquiring about exam result**





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#### Co-build Experience

- 5000 Km Co-build within Railways with sister department-same trench with separation of 20 cm.
- 250 Km Co-build with TELCOS in city areas-separate duct.
- 2000 Km OFC of other service providers used by RailTel
- 3000 Km OFC pairs shared with other operators.

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#### Thank you

Lets stride together towards greater heights.



Batasia Loop of Darjeeling Himalayan Railways – A Heritage Railway under UNESCO

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