

The image is a collage of infrastructure-related photos. On the left, there's a blue-tinted image of a power line tower. The top center shows a power line tower against a clear blue sky. The right side features a worker in a blue uniform and yellow helmet working on a tall metal tower. The bottom right shows a close-up of a railway track with concrete sleepers and metal rails. The bottom center shows a power line tower at sunset or sunrise, reflected in water. A large orange rounded rectangle is overlaid on the left side, containing the text.

INDIA'S INFRASTRUCTURE BOOM

NINE ENGINES DRIVING INDIA'S INFRA JOURNEY



Roads



Railways



Airports



Waterways



**Mass
Transport**



**Urban
Infrastructure**



Telecom



Power

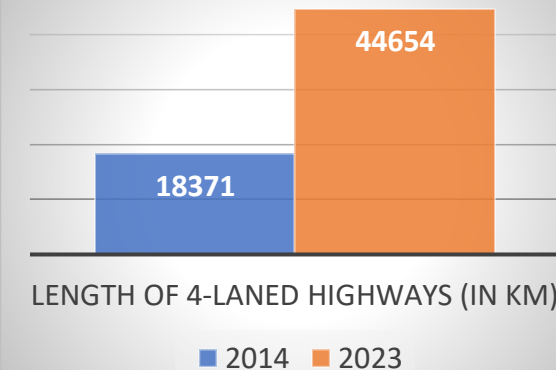
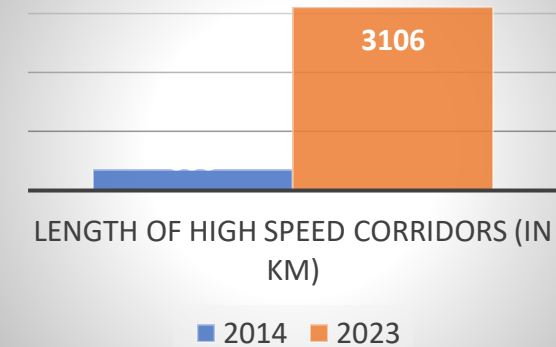
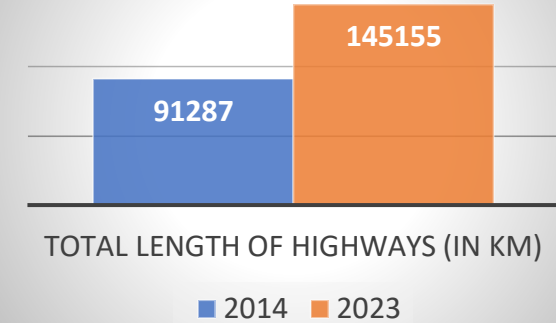
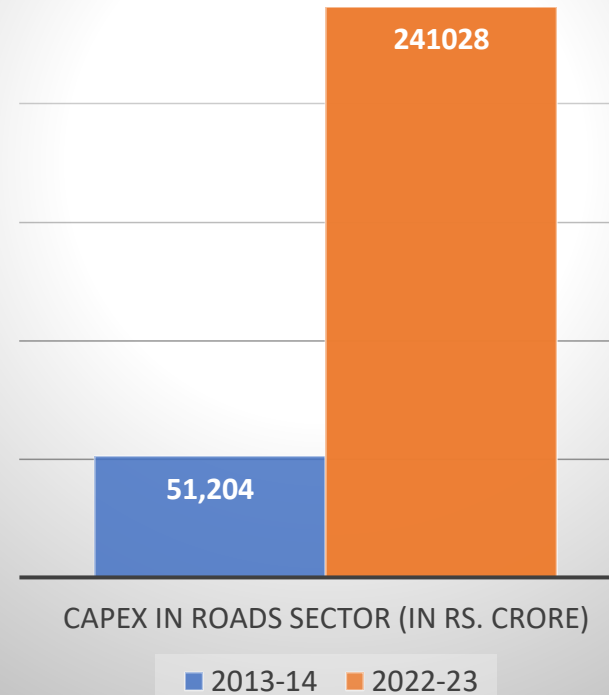


Logistics

Road And Highway Construction On The Fast Track

- Total length of NHs increased from **91,287 km in March, 2014 to about 1,45,155 km at present**
- Pace of NH construction increased from **11.6 km/day in 2013-14 to about 28.3 km/day in 2022-23**
- **3.5 lakh km of rural roads** have been constructed under PMGSY, in the last 9 years
- NH length in the North-Eastern states **increased by 32%** between FY 2014-15 and FY2022-23, **from 11,000 km in April 2014 to 14,400 km currently**

CAPEX IN ROADS INCREASED BY 5 TIMES



BHARATMALA PARIYOJANA: EXPANDING SCALE AND SPEED OF HIGHWAY NETWORK

- Bharatmala Pariyojana covering a length of **34,800 km** of roads, at an estimated cost of **Rs. 5.35 Lakhs Crore** approved
- 26,384 km has been awarded and **14,300 km has been completed** under Bharatmala Pariyojana
- **27 Greenfield Expressways and Access Controlled Corridors being developed** across the country, having overall length 9860 km

Major projects completed under Bharatmala Pariyojana:

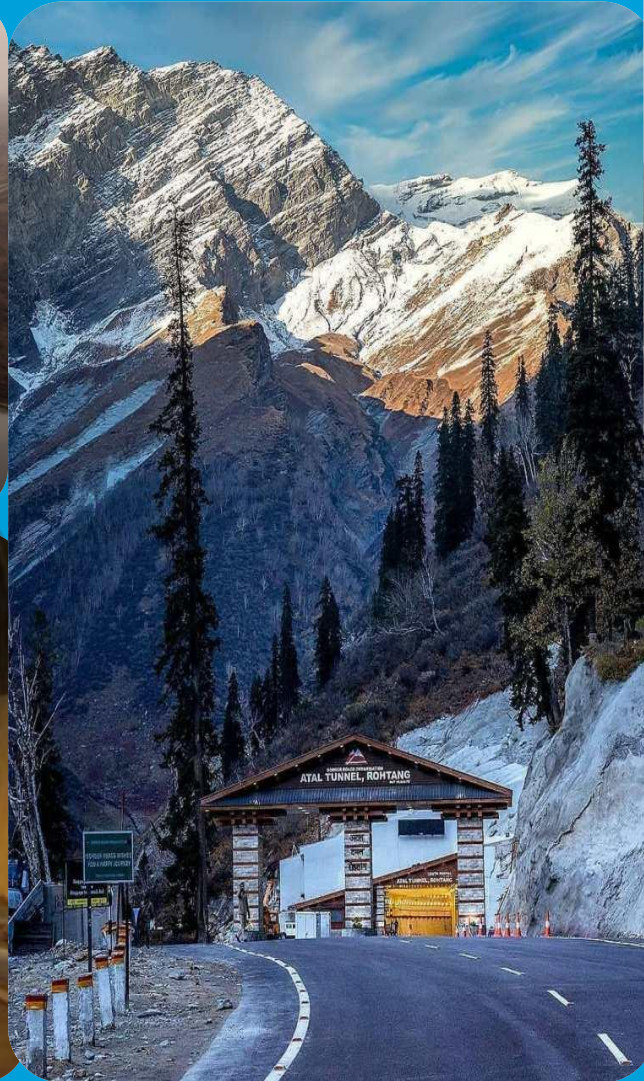
- Eastern Peripheral Expressway
- Delhi-Meerut Expressway
- Narmada Bridge
- Chambal Bridge
- Chenani – Nashri Tunnel
- Dhaula-Sadia Bridge



From Speed Breaker Of Delays To Higher Speed In Creating Road Infrastructure



Kota Chambal Bridge



Atal Tunnel



Delhi Mumbai Expressway

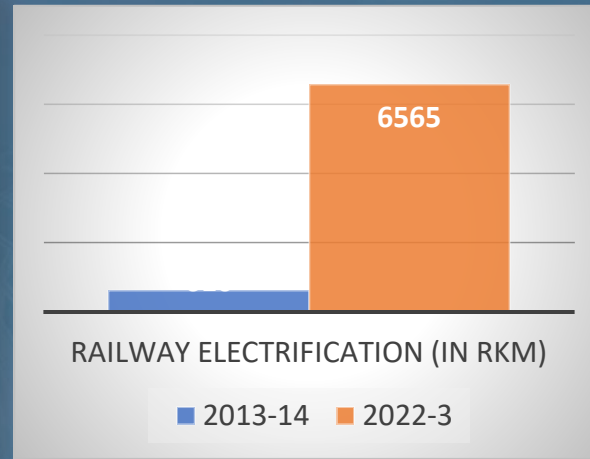
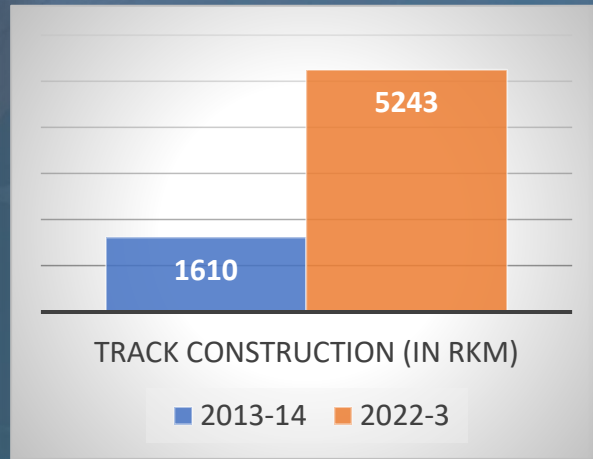
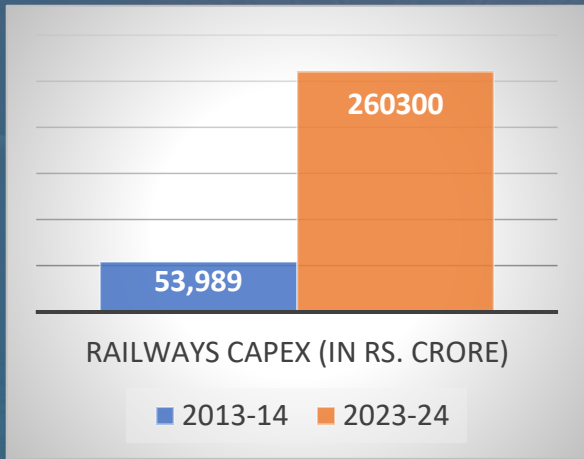


Chennai Nashri Tunnel



Delhi Merrut Expressway

Railways' Rapid Journey Towards Progress



- Highest ever **5,243 Km** track commissioned in **2022-23** as compared to 1,610 Km in 2013-14
- Highest ever electrification of **6,565 Rkm** achieved in 2022-23 as compared to 610 RKM in 2013-14

- Highest ever freight loading of **1,512 MT** was achieved in **2022-23** as compared to **1,058 MT** in 2013-14
- **91%** Broad Gauge network has been electrified till date

World Class Railway Infra:

- **1,218 railway stations upgraded** under the Adarsh Station Scheme
- **1,309 railway stations being developed** under Amrit Bharat Station scheme
- **Wi-Fi facility at 6108 stations**
- **Automatic Block Signaling at 3,946+ Route km**
- **All Unmanned level crossings** on Broad Gauge network **eliminated**
- **Net Zero by the year 2030**

VANDE BHARAT: DEFINING A NEW ERA OF RAIL TRAVEL

- India's first indigenous Semi High-Speed train
- Quick acceleration
- Maximum speed of 160 kmph
- On-board infotainment and GPS-based passenger information system
- Reclining Ergonomic Seats with revolving seats in executive class
- Automatic sliding doors
- Zero discharge vacuum bio-toilets
- Mobile charging sockets for every seat
- CCTV cameras

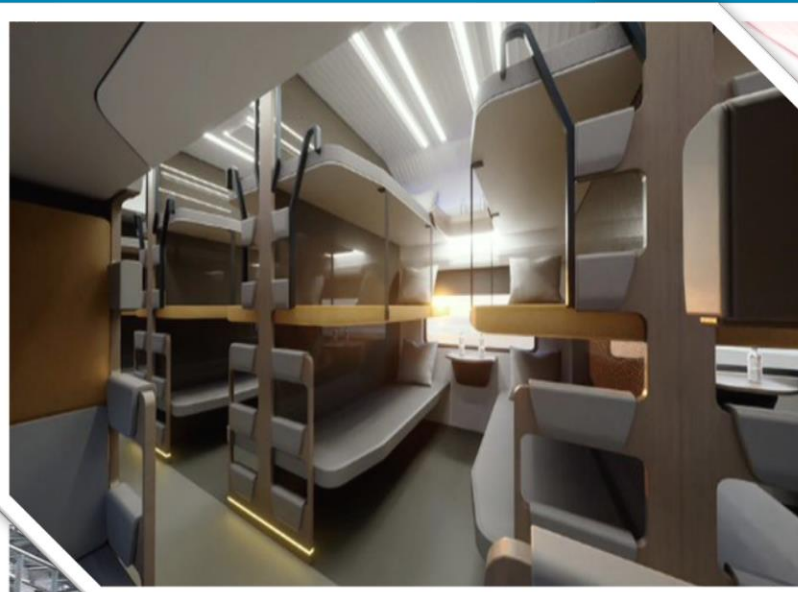
50 Vande Bharat routes introduced

99.60% overall utilization of Vande Bharat trains

Tenders floated for **400** Vande Bharat trains sleeper trains



Green Flag For Modern, Comfortable, Accessible Rail Networks



HIGH SPEED RAIL: CHANGING THE WAY INDIA TRAVELS

- **India's first High Speed Rail (HSR) project:**
Mumbai – Ahmedabad HSR being executed
- Preparation of Detailed Project Report (DPR) for the **7 new High Speed Rail (HSR) corridors**
- **India's first Regional Rapid Transit System (RRTS)** coming up in Delhi-Ghaziabad-Meerut Corridor
- RAPIDX first of its kind in India with a **design speed of 180 kmph**
- RAPIDX trainsets being manufactured under **Make In India** policy
- Development of **35 Hydrogen Fuel Cell-based trains** for various heritage and hill routes at a cost of **₹2800 crore**



DEDICATED FREIGHT CORRIDOR: A GAME-CHANGER PROJECT

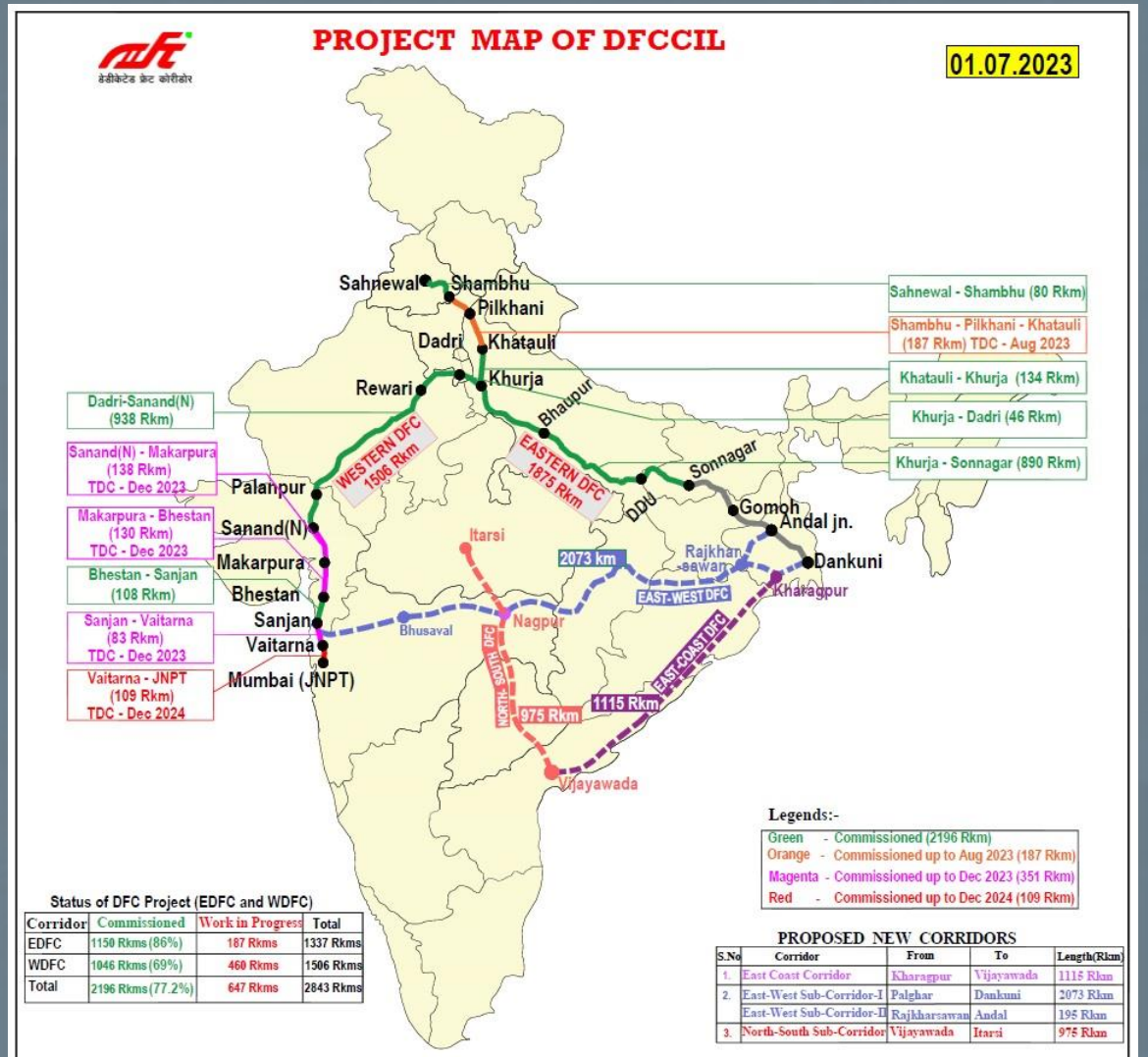
- Two Dedicated Freight Corridors (DFC) are being constructed:

- Eastern Dedicated Freight Corridor (EDFC)** from Ludhiana to Sonnagar (1337 Km)

- Western Dedicated Freight Corridor (WDFC)** from Jawaharlal Nehru Port Terminal (JNPT) to Dadri (1506 Kms)

- Freight trains to run **at speed of 100 kmph** and offer higher carrying capacity

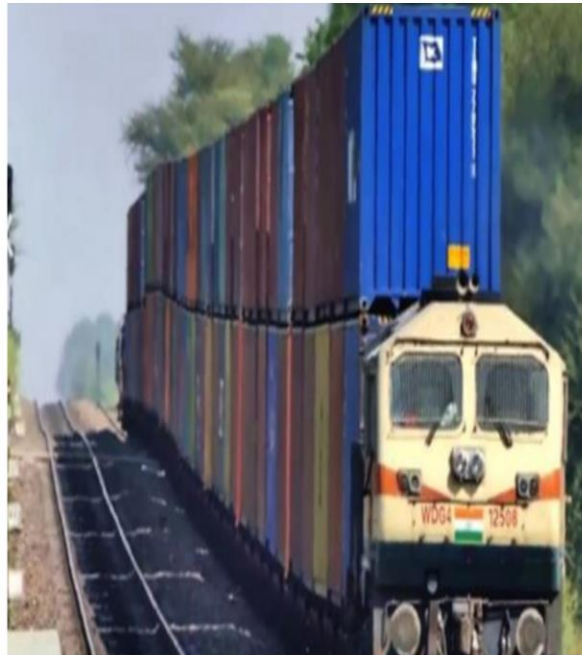
- From 2014 to 2023, total 2,196 Rkm, i.e. **77% has been commissioned**



Dedicated Freight Corridor Enabling Faster , Seamless Transport Of Goods



Higher throughput per wagon and per train: Run Heavy Haul trains.



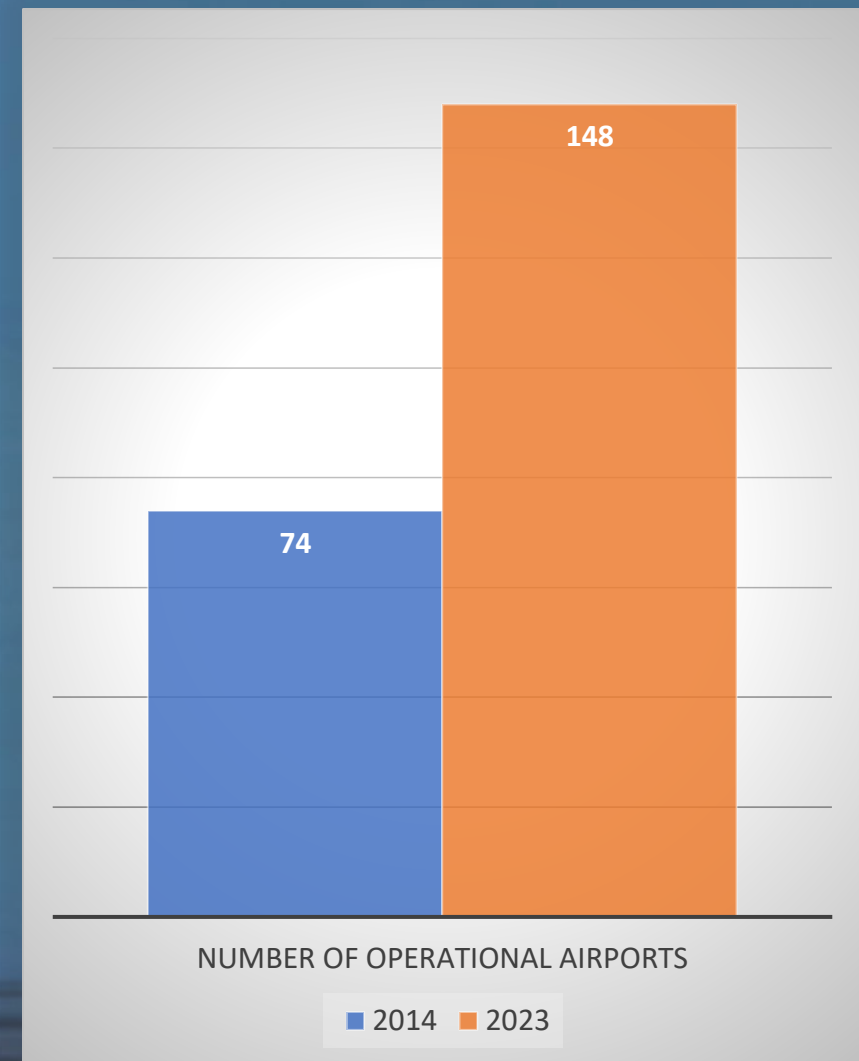
Reduction in Transit time: Reduce logistic cost of transportation and better utilization of Rolling stock

Lower Energy Consumption: Reduce Operation and Maintenance Costs



Rising to New Heights in Aviation Sector

- **21 new Greenfield Airports** approved, 11 Greenfield airports operationalised
- India's aircraft fleet size has **increased from 395 in 2014 to 729 in 2023**
- **Domestic passengers more than doubled** from 61 million in 2013-14 to 136 million in 2022-23
- India is the **3rd largest domestic aviation market** after USA & China
- **481 routes operationalized under UDAN**, so far



Aspirations Flying High with Indian Aviation



Kempegowda International Airport, Bengaluru



Veer Savarkar International Airport, Port Blair

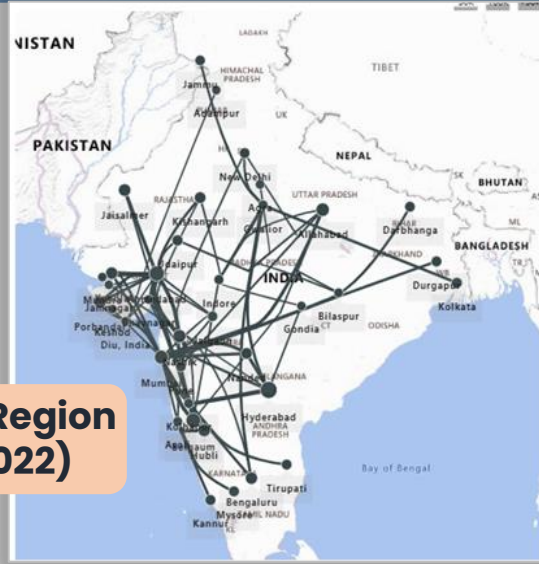


Sikkim Airport

REGIONAL CONNECTIVITY SCHEME (RCS) UDAN



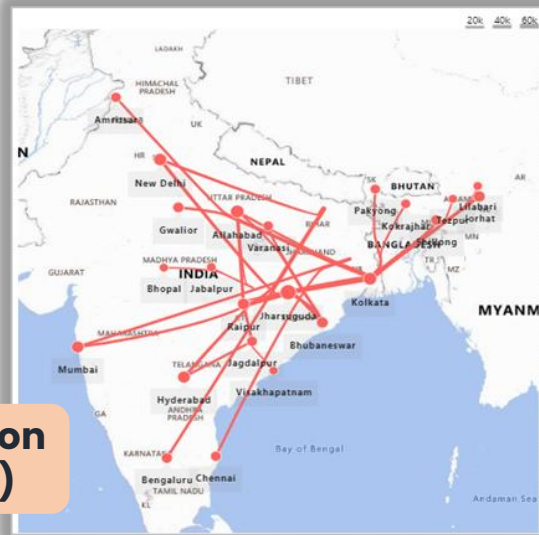
**Southern Region
(2017-2022)**



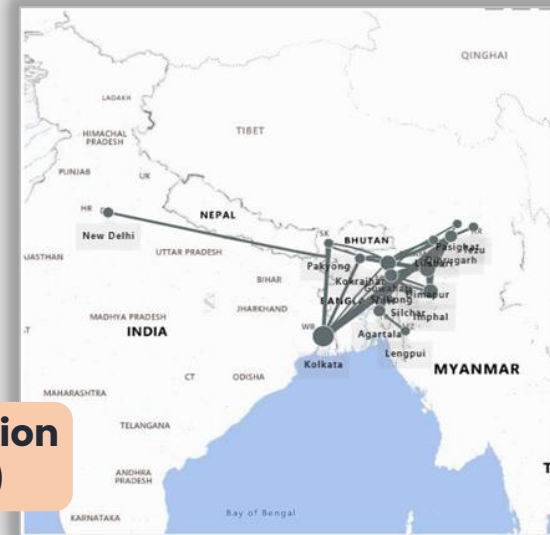
**Northern Region
(2017-2022)**



**Western & Central
Region
(2017-2022)**

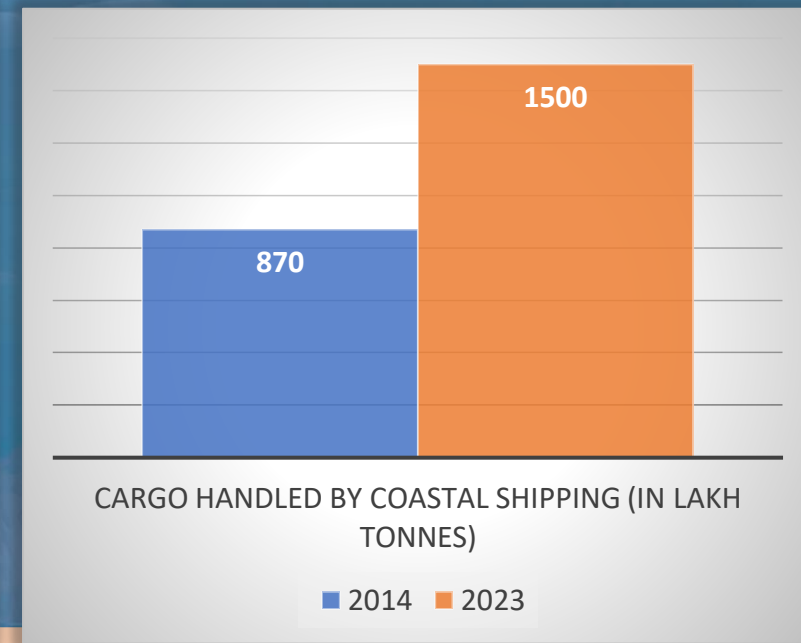
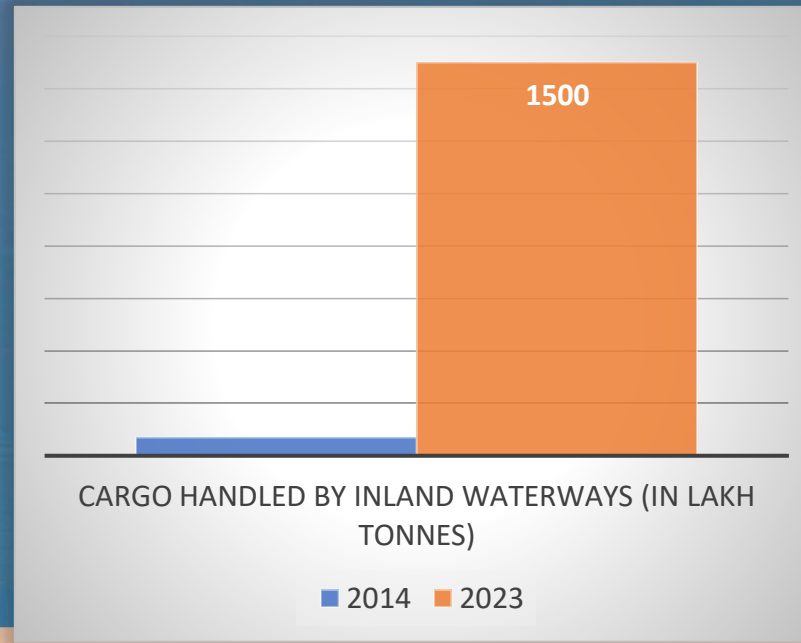
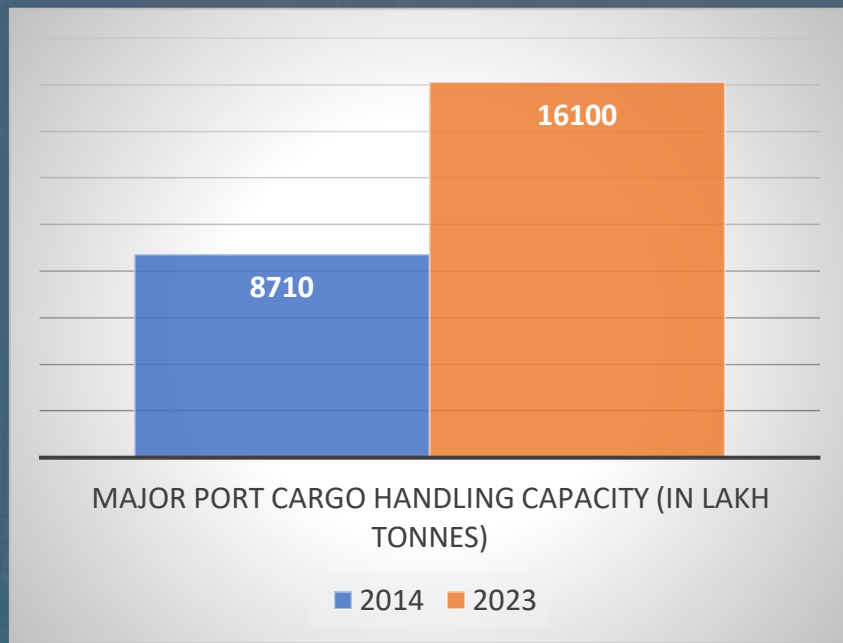


**Eastern Region
(2017-2022)**



**Northeast Region
(2017-2022)**

4. Sagarmala Project: Huge Leaps in Ports and Shipping



- Container Vessel Turnaround Time **reduced to less than 1 day**, better than advanced nations such as USA, Germany, Singapore, etc
- Container Dwell Time **reduced to less than 3 days**, ahead of Germany, USA etc

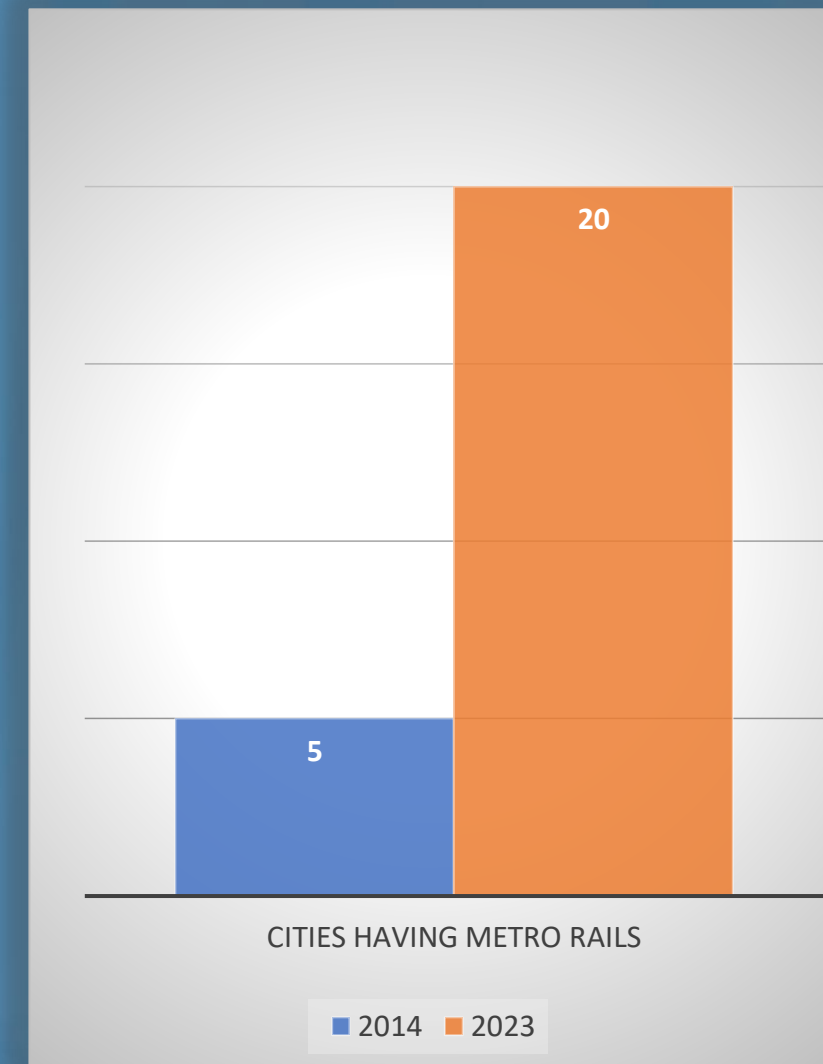
- Number of National Waterways operationalized **increased by 7 times from just 3 to 24; 111 National Waterways identified for development**

Modernising Ports: Facilitating International Trade



METRO RAILS AND BRTS – REVOLUTIONISING MASS TRANSPORTATION

- About **874 Kms Metro Rail lines are operational**, up from 229 km in 2014 Ci
- **986 Kms Metro Rail lines under construction** in 27 Cities
- India on its way to have the **2nd largest metro network of the world**
- **319 kms Bus Rapid Transit System (BRTS) operational**
- **505 kms BRTS sanctioned** in 11 cities



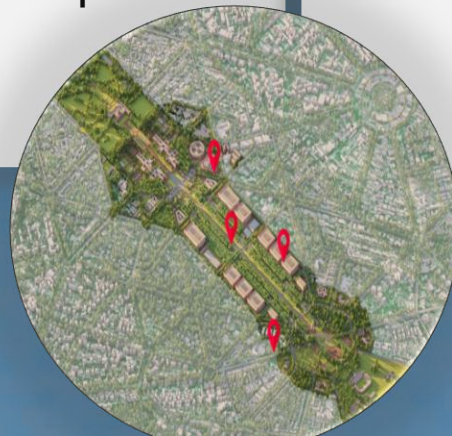
AMRUT & SMART CITIES: TRANSFORMING URBAN INFRASTRUCTURE

AMRUT

- **500 cities selected across India**
- **1.72 crore water tap connections** provided
- **1.35 crore sewer connections** provided
- **3,342 MLD Sewerage Treatment Capacity (STP)** developed
- **1,073 km length of drains** constructed
- **4,556 acres of Green** space developed
- **420 KM pedestrian walkways** developed

SMART CITIES MISSION

- **100 cities** selected under Smart City
- **6,069 projects** (76%) have been completed
- **698 Smart Energy projects** being implemented
- **1,401 Smart Water and Smart Wastewater projects** implemented
- **Integrated Command and Control Centers** operationalized in all **100 smart cities**



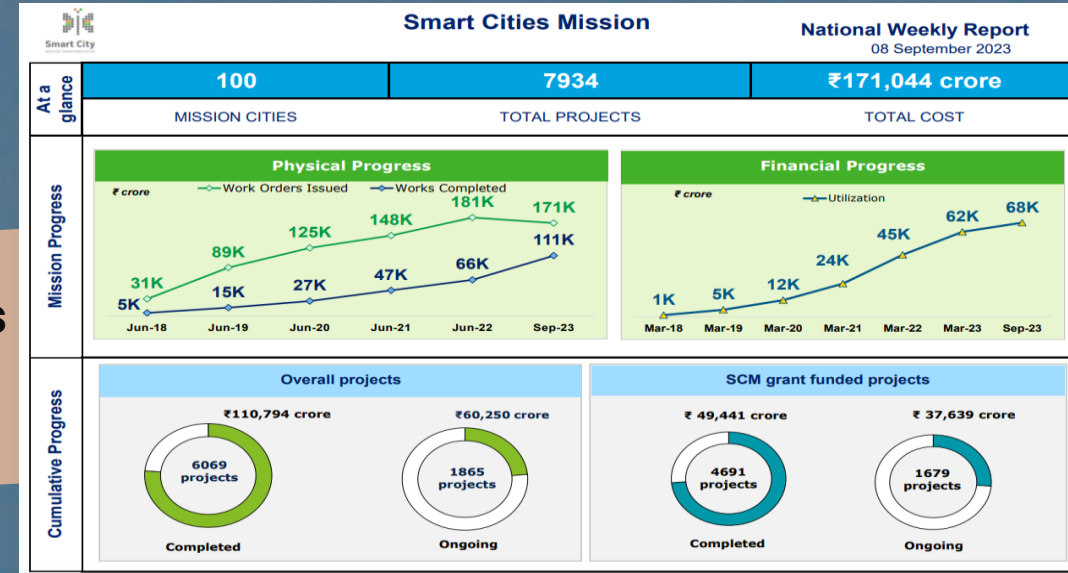
SMART CITIES



From the pool of 100 shortlisted cities, 171,044 Cr. INR worth of work orders have been issued, of which 110,794 Cr INR worth of work orders have already been completed accounting for 76% of the projects.

The Northeastern region's eight Smart Cities have received funding from the Center totalling INR 14,124 crore for 464 projects, with the Brahmaputra Riverfront Development Project alone costing INR 826 crore

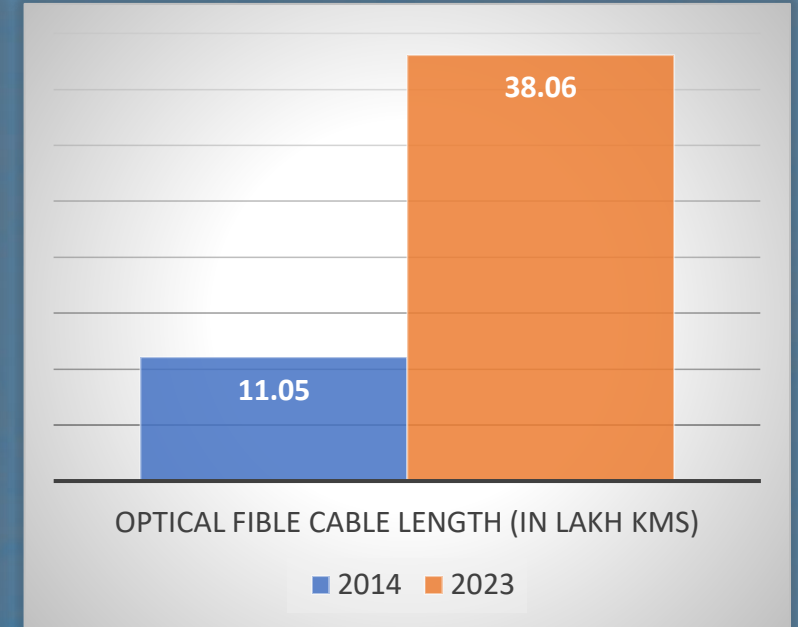
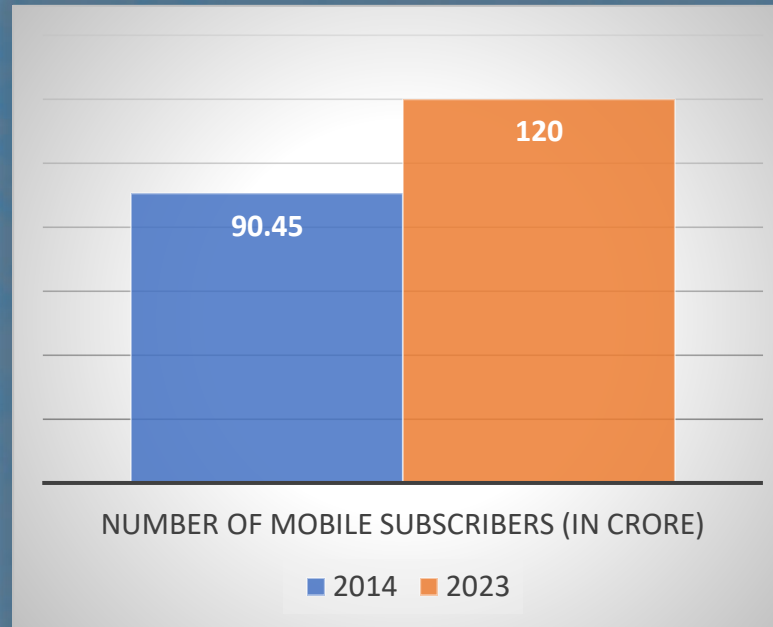
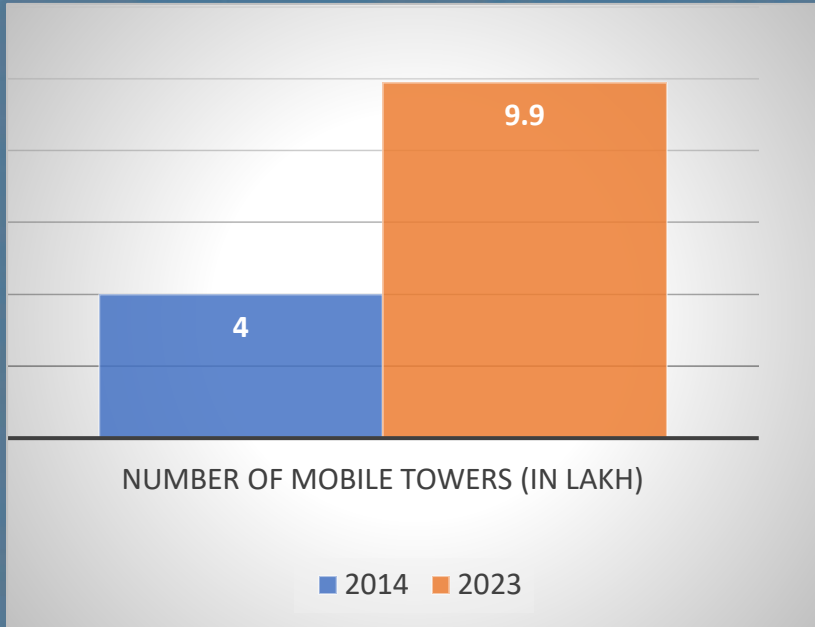
Smart Cities Mission Dashboard



Total Smart City Projects and Total Amount



TELECOM: A CONNECTIVITY MAKEOVER LIKE NEVER BEFORE!



- **Mobile Broadband subscribers multiplied more than 17 times**, from 4.56 crore (2014) to 81.19 crore (2023)
- **Mobile data tariff has reduced exponentially**, from Rs. 269 /GB (2014) to Rs. 10 /GB (2023)

- Average **Broadband speed increased 18 times**, from 1.7 Mbps (2014) to 30.9 Mbps (2023)
- **Fixed Broadband Subscribers almost doubled**, from 1.52 cr (2014) to 3.46 (2023)
- Out of 2.5 lakh Gram Panchayats (GP), **2.07 lakh GP connected by Optical Fibre Cable**

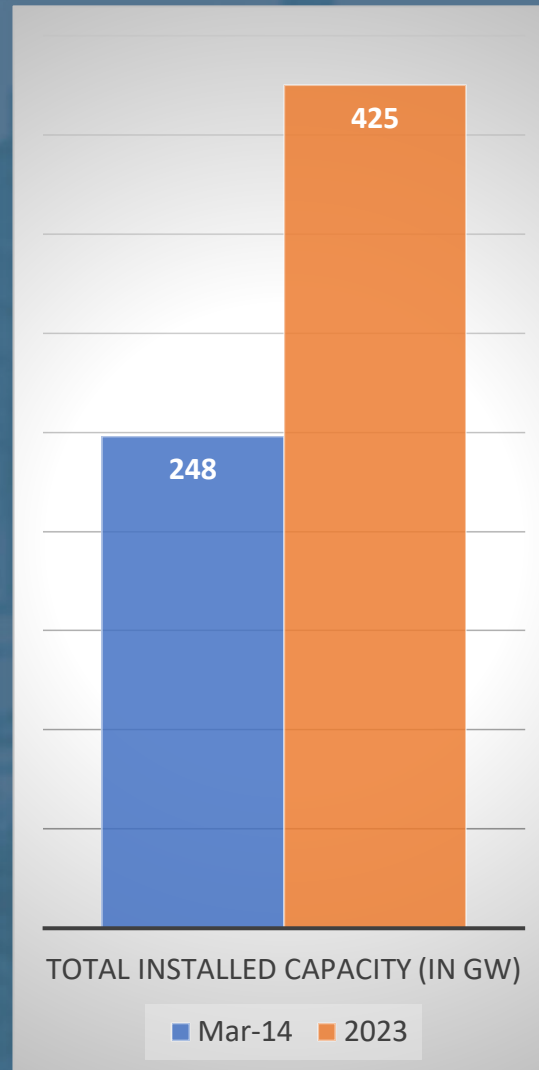
5G AND 6G: REVOLUTIONISING THE TELECOM SECTOR

- The **fastest rollout of 5G in the world** – 3 lakh sites across 700 districts in just 11 months
- C-DoT and Reliance Jio have developed **indigenous 4G/5G technology stack**
- **Population scale solutions** on healthcare, agriculture, smart manufacturing, education, gaming, drones etc **being tested on Indian 4G/5G indigenous stacks**
- **6G Technology Innovation Group** (TIG-6G) constituted to develop roadmap and action plans for 6G



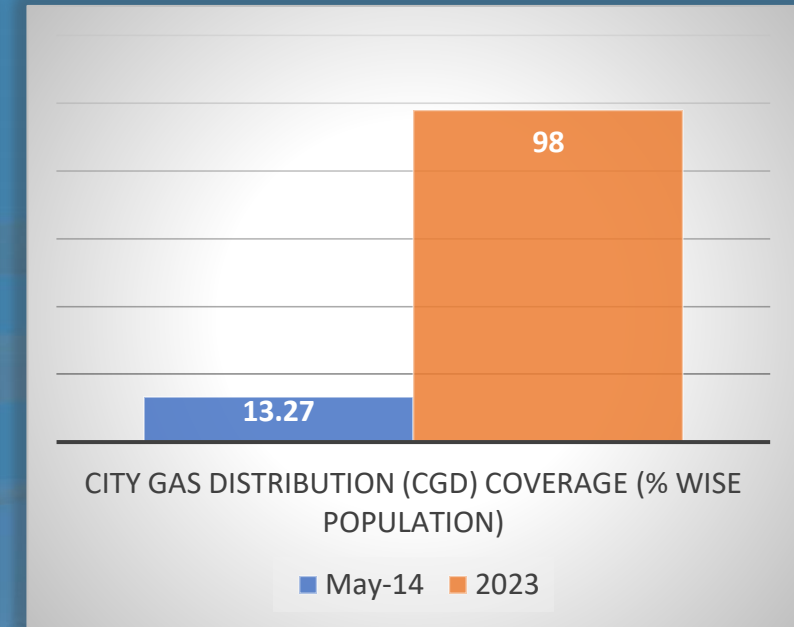
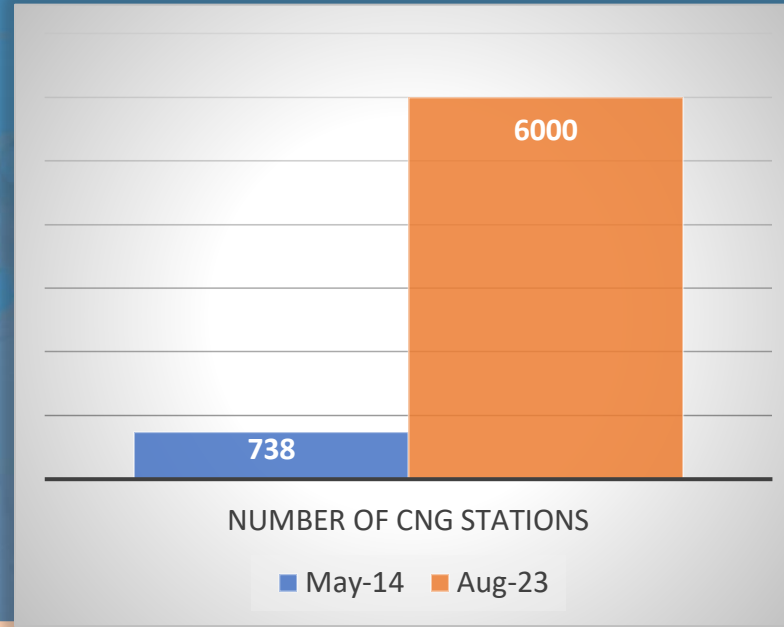
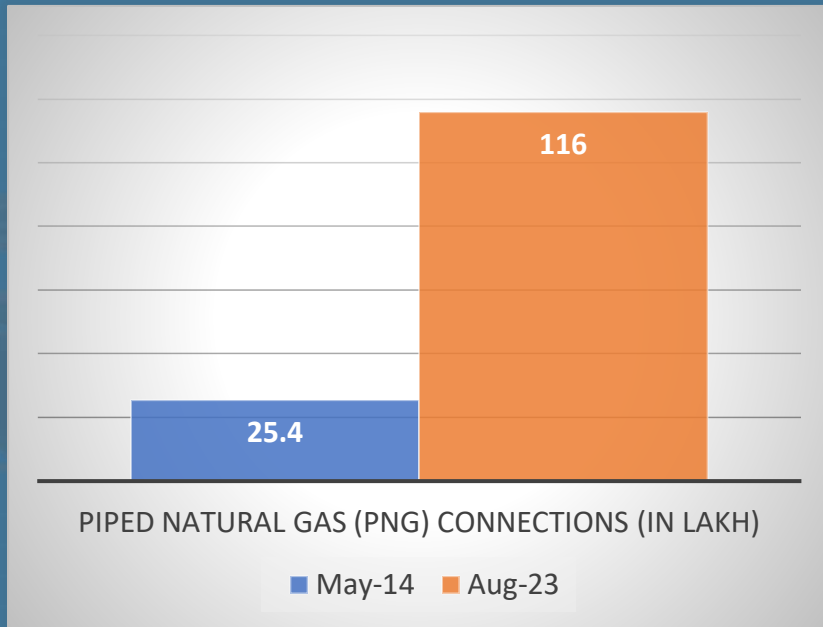
INDIA: FROM A POWER DEFICIT TO A POWER SURPLUS NATION

- **Over 180 GW of electricity generation capacity** added since 2014
- **1.82 lakh circuit kms of transmission lines** added since 2014
- The current **installed electricity generation capacity of 425 GW** is close to double the peak demand
- The average **availability of power in rural areas increased from 12½ hours in 2014 to 22 ½ hours** today. In urban areas, the average is 23 ½ hours.
- **2.86 crore households** electrified since the launch of SAUBHAGYA



- **Towards a Greener Future**
- Climate target of **40% of installed capacity from non-fossil energy sources achieved 9 years ahead of schedule**
- **64.3 GW solar capacity** added during 2014-23, which is **23 times of capacity installed** as on March 2014
- **Solar tariff reduced from over Rs. 6/ unit in 2014 to less than Rs. 2/unit in 2020-21**

GAS-PIPELINE NETWORK INCREASING BY LEAPS AND BOUNDS



- **33,592 km** Natural Gas Pipeline Network authorised across the Country
- **23,173 km** Natural Gas Pipeline Network is operational and 12,206 kms of pipeline is under construction

- **12.5 crore PNG connections** by 2030, authorised across the country



LOGISTICS: SEAMLESS INTEGRATION PAVING THE WAY FOR NEW INDIA

83,677 kms
Total length of road network identified

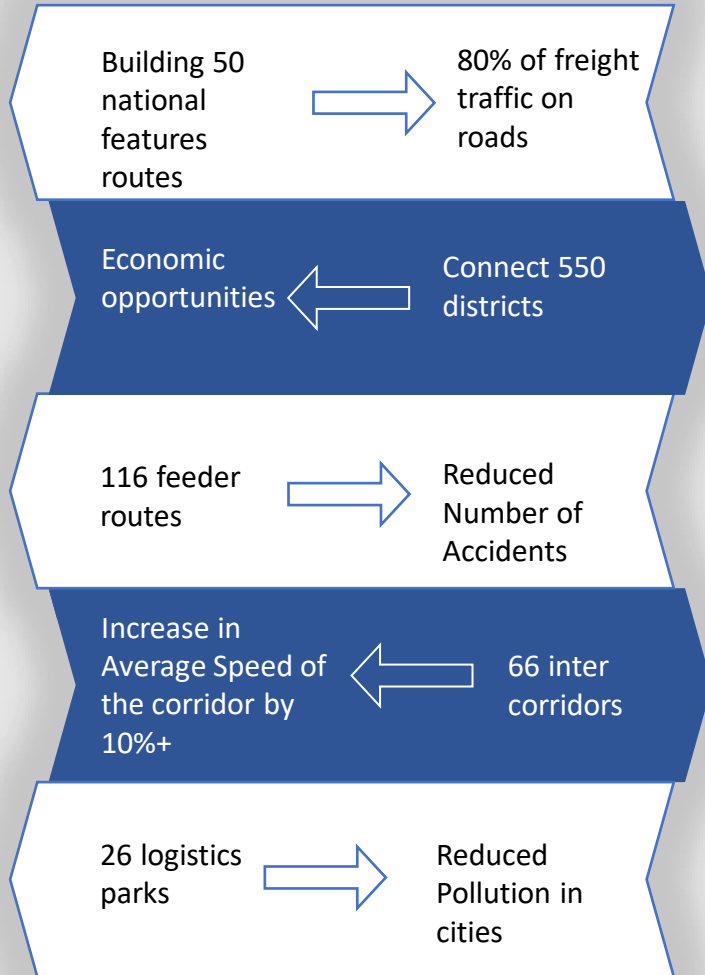
INR 10.63 lakh cr.
Total value of investment

73%, 2177
Attended, rectified blackspots

35,591 km
Length of road safety audit done

50 Total
Economic Corridors

2620 km
Length of road safety audit, FY21



Project cost of **INR 10.63 lakh crore** – The single largest outlay for a government road construction scheme in the World.

50 economic corridors to relieve freight congestion and moving 80% of freight traffic on roads from the current 40%.

Special emphasis on providing connectivity to hinterlands, including the tribal and backward areas, as part of the greenfield sections

The North-East Corridor is designed to be the largest economic corridor and will connect key cities by a highway system, improving connectivity and logistical efficiency

The Bengaluru-Mumbai Economic Corridor expected to create 65 million jobs by 2040

The Delhi-Mumbai Industrial Corridor is projected to yield **INR 212,637,984 million** worth of value of output as against the BAU scenario of **INR 80,959,933 million** of output by 2040.

PM GATI SHAKTI – ADDING GATI TO DESH KI PRAGATI



- **PM Gati Shakti:** Indigenously developed GIS data-based digital platform with **1400+ data layers and 50+ tools**

- Area-based holistic development approach adopted

- Bringing together **36 ministries under a single institutional framework**

- 115 projects worth **Rs 11.70 Lakh Crore** evaluated

- **48 Gati Shakti Multi Cargo Terminals** commissioned

- Building Next Generation Infrastructure; promoting Ease of Living and Ease of Doing Business

Institutionalizing Holistic Planning

- Establish synergies among different ministries during the planning stage
- Integrated planning and coordinated implementation
- Align timelines of various projects
- Standardisation of designs for efficient project approval
- Standardised procedures by all the agencies to reduce project delays

PM GATISHAKTI: SECTOR-WISE TAKE OUTS



- **Ministry of Roads, Transport and Highways:** Total Length of NH in the country (in kms) to be built – 2,00,000

- **Ministry of Railways:** Total cargo capacity to be achieved in the country (in million tonnes) – 1,600

- **Ministry of Civil Aviation:** Total no. of Airports/ Heliports/Water/ Aerdromes to be built in the country – 220

- **Ministry of Ports, Shipping and Waterways:** Total cargo capacity to be achieved in ports (in MMTPA) – 1,759

- **Ministry of Petroleum and Natural Gas:** Total length of pipelines to be built (in kms) – 34,500

- **Ministry of Power:** Total transmission networks to be built (in circuit kms) – 4,54,200

- **Ministry of Renewable Energy:** Total Capacity to be achieved (in GW) – 225

- **Department of Telecommunications:** Total no. of Gram Panchayats to be connected – 2,600,00

INDIA'S INFRASTRUCTURE SOARING NEW HEIGHTS

- **Anji Khad** – World's highest cable-stayed railway bridge completed in 2023
- **Chenab Bridge** – World's highest railway bridge nearing completion
- **Atal Tunnel** – World's Longest Highway Tunnel Above 10,000 Feet
- **Zojila Tunnel** – Asia's longest road tunnel shaping up
- **Bogibeel Bridge** – Asia's 2nd longest rail-road bridge opened
- **Dhola Sadiya Bridge** – India's longest bridge
- **Rewa Ultra Mega Solar Power** – Asia's largest power project
- **World's longest double-decker viaduct** built for Nagpur metro



IN THE MEDIA

Then

Now

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Aviation is the sick man of India

4 min read • 19 Jun 2014, 11:41 PM IST

Capt. G.R. Gopinath

India fast emerging as a key global aviation market, says IATA report

Domestic air passenger traffic for all markets measured for February rose 25.2 per cent compared to one year ago.

MONEYCONTROL NEWS | MAY 01, 2023 / 11:14 AM IST

Business May 5, 2023

India massive infrastructure drive counters China

AEP /

India's Worrying Border Infrastructure Deficit

A disturbing disparity has emerged in infrastructure development on either side of the disputed Sino-Indian border.



By [Sudha Ramachandran](#)
June 19, 2014

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9 Years of Modi: From Vande Bharat to revamped stations, how Indian Railways transformed under Modi

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