



**MANGAL ANALYTICS AND  
RESEARCH CONSULTING**  
Delivering Excellence, Partnering Success.

# **MARC Insights** **Insights on Rail Double** **Tracking in Goa**

2024



# Table of Contents

<b>1</b>	<u>Indian Railways</u> Page 03	<b>5</b>	<u>Benefits of Double tracking Railway to Goa</u> Page 10
<b>2</b>	<u>Key Statistics of Indian Railways</u> Page 05	<b>6</b>	<u>Key Railway Infrastructure Projects in Goa</u> Page 11
<b>3</b>	<u>Railway Lines in Goa</u> Page 07	<b>7</b>	<u>Official Statements from Government Representatives</u> Page 12
<b>4</b>	<u>Double Tracking of Railway Lines in Goa</u> Page 08	<b>8</b>	<u>Conclusion</u> Page 13

# Indian Railways - Introduction

Indian Railways is a government-owned statutory body under the Ministry of Railways, operating India's national railway system.



**17 Railway Zones** with 68 Divisions as of 2024

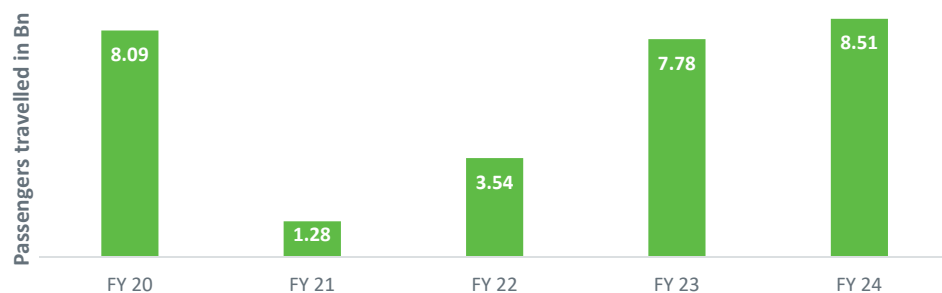


**4th largest railway system** in the world, after US, Russia and China respectively.



**12 Lakh people** employed in Indian Railway making it second largest employer of the India and 9<sup>th</sup> largest in world

**Passengers travelled by Train in India**



Source: [Maps of India](#), [Invest India](#)

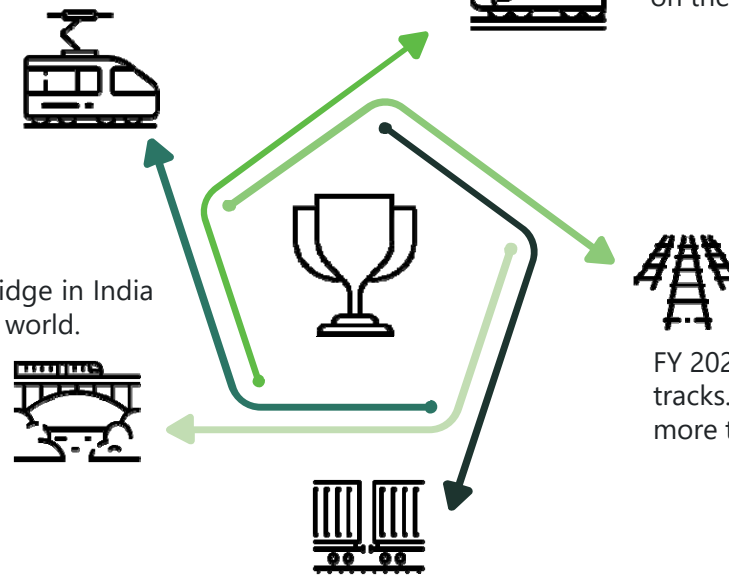


# Indian Railways: Landmark Achievements

Total Broad Gauge (BG) network of 61,508 Route Kms have been electrified upto December '2023 which is 93.83 % of total Broad Gauge route (65,556 RKMs) of Indian Railways.

As on 31st January 2024, 41 trains of the Vande Bharat semi high-speed train service are running on the Indian Rails.

At 359 meters (1,178 feet), the Chenab Rail Bridge in India is the highest single-arch railway bridge in the world.



FY 2023, Indian Railways has laid 5,100 Kms of new tracks. In this FY, average daily track comes out to be more than 14 Kms per day.

Indian Railways recorded monthly freight loading of 135.46 MT\*\* in Jun 2024, an improvement of 10.07% over last year freight loading for the same period.

\*\*MT = Million Tones

Source: [Invest India](#).

## Key Statistics of Indian Railways (1/2)



**1,26,366 KM**

Total track length of  
Indian Railway



**7,335**

Total Railway Stations  
in India



**8 MT**

Annual Estimated Freight  
Demand in 2031



**12 Bn**

Annual Estimated  
Passengers in 2031



Source: [Invest India](#)

**13,523**

Passenger Trains

**9,146**

Freight Trains



**Total Daily Trains FY 2023**

**44.36 Kmph**

Average Freight  
Train speed

**50.60 Kmph**



Average Passenger  
Train speed

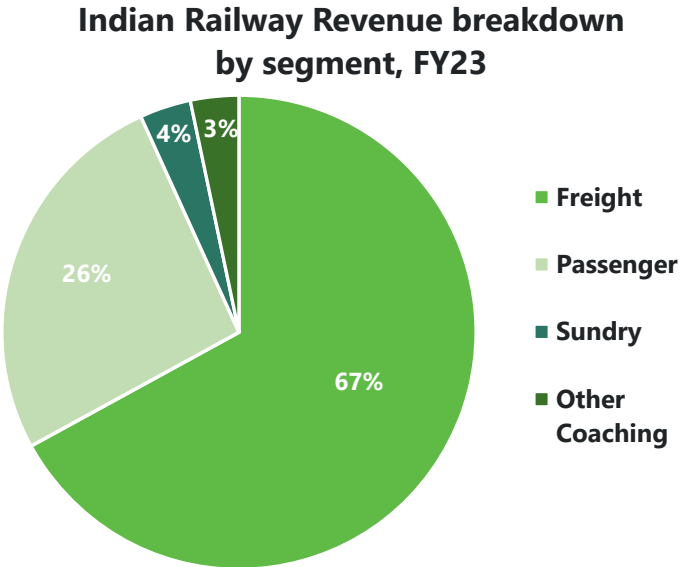


**Average Speed of Trains in India**

After 100% electrification the estimated saving on  
fuel bill will be about Rs 145 billion per annum.

# Key Statistics of Indian Railways (2/2)

2,56,000 Cr. Total Revenue FY 2023		1,591 MT FY 2024	1,512 MT FY 2023	648 Cr. FY 2024	596 Cr. FY 2023
4,761 Cr. Net Income FY 2023	98.7 % Operating Ratio FY 2023	Cargo carried by Indian Railway Growth 5% 		Passenger travels through Railways Growth 8% 	



Source: [Invest India](#)



# Railway Lines in Goa

01

## Konkan Railway

KRCL was established in 1990 by Government of India as a Central Public Sector Undertaking with equity participation by Government of Maharashtra, Karnataka, Kerala and Goa.

The Konkan route, which stretches 741 km, goes through Maharashtra, Goa, and Karnataka. On the Konkan rail route, 52 passenger trains and 12 freight trains operate daily.

02

## South Western Railway

formed by merging the reorganized Hubli division from South Central Railway with the Bangalore and Mysore divisions from Southern Railway

The Railway consists of three divisions: Hubli, Bangalore, and Mysore, primarily serving Karnataka state, with 84% of its network located there. The remaining 16% of its route extends into Andhra Pradesh, Tamil Nadu, Maharashtra, and Goa.



Source: [konkan Railway](#), [South Western Railway](#)

# Double Tracking of Railway in Goa

## 1. South Western Railway



- ❑ The NBWL (National Board for Wildlife) clearance came in June 2020. Of the 342 km of proposed track-doubling, 90 km are in Goa. Of these 90 km, 29 km pass through a protected wildlife area.
- ❑ With 50% of the track doubling on this stretch already done and recent permissions granted for tree cutting, the target is set to finish the project by June 2025.
- ❑ The project is providing temporary work opportunities for 1.46 lakh people.

**8,071 Cr.**

Turnover of SWR  
FY 2022

**Rs. 3,692.6 CR**

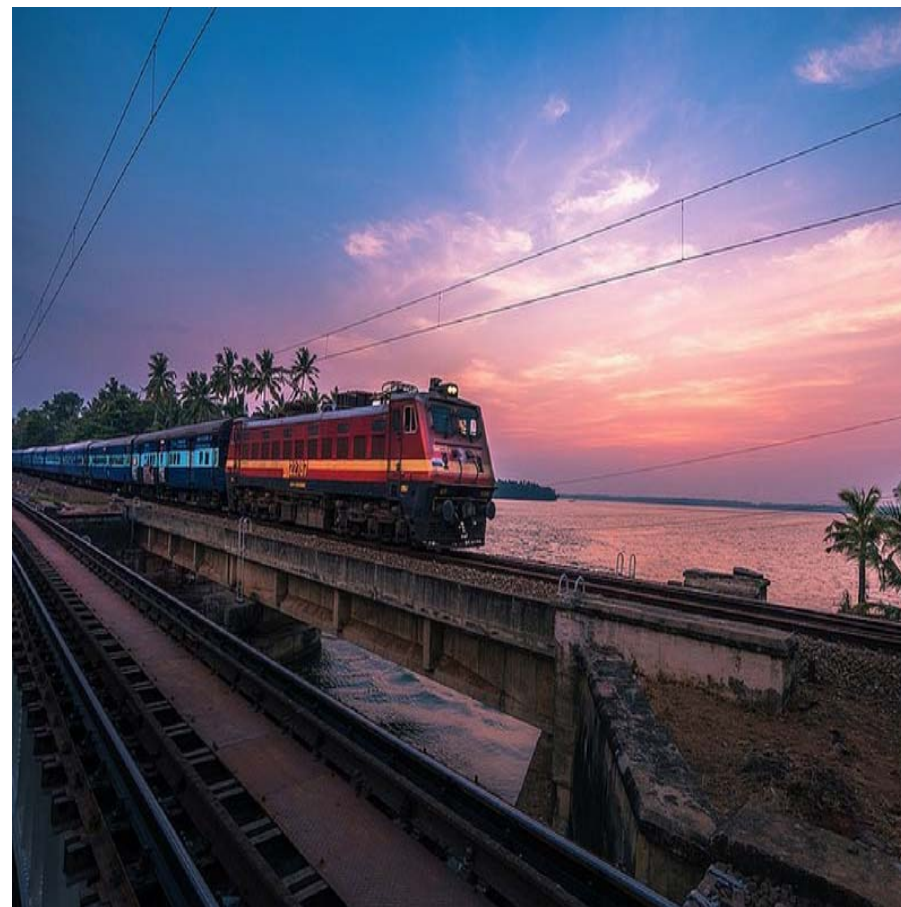
Total Cost of Project Vasco to  
Hospet

**3,286 Km**

Total Track length

**342 Km**

Proposed Double tracking



Source :- [South Western Railway](#), [Image](#), [The Goan](#).

# Double Tracking of Railway in Goa

## 2. Konkan Railway Corporation Ltd.



- ❑ For Konkan Railway, doubling the tracks costs between ₹15 to ₹20 crore on flat stretches, but the cost increases to ₹80 to ₹100 crore in hilly terrain.
- ❑ Konkan Railway is planning to double-track approximately 350 km between Kankavali-Sawantwadi and Madgaon-Thokur.
- ❑ Currently, about 70 trains operate on this route, and double-tracking could increase this number to 120.

Names of shareholders	% of Shareholding	5,152.24 Cr. Turnover FY 2022	5,425 Total Employees Of KRCL FY 2022
Ministry of Railways	51 %		
Government of Maharashtra	22 %		
Government of Goa	6 %	741 Km Total Track Length of Konkan Railway	59 Total stations on Konkan Railway
Government of Karnataka	15 %		
Government of Kerala	6 %	100 % Rail Electrification of KRCL	₹1,287 Cr. Total Cost of Electrification



Source :- Deccan Herald, ET Infra.

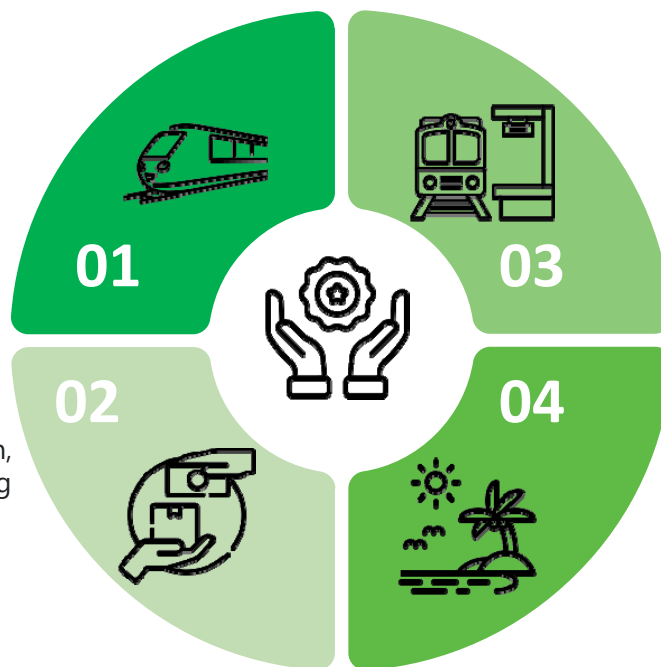
# Benefits of Double tracking Railway to Goa

## Increased Passenger Train Services

Double tracking enables a higher frequency of passenger trains, offering more travel options for residents and commuters

## Boost to Trade and Commerce

facilitating smoother and more reliable transportation, double tracking supports trade and commerce among adjoining states, benefiting local businesses and the regional economy.



## Enhanced Intrastate Connectivity

Improved rail infrastructure ensures better connectivity within the state, making travel between different regions of Goa more efficient and convenient.

## Increased Tourist Inflow

Goa becomes a more attractive destination for tourists, leading to a rise in visitor numbers and a boost to the local tourism industry as almost 40% tourist visits via train.

Source - [Times of India](#)

# Key Railway Infrastructure Projects in Goa

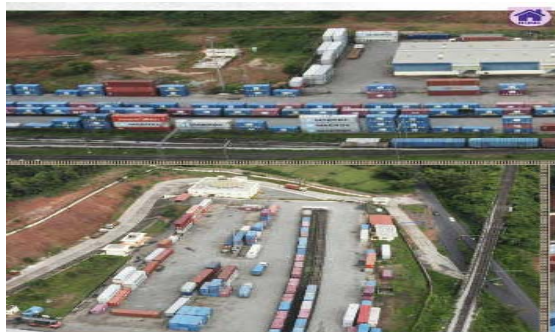
## The Roll On Roll Off (RORO) service by KRCL

This service allows trucks to be transported on customized railway wagons. This service currently operates between Kolad and Verna, Verna and Surathkal, and Kolad and Surathkal. According to RTI data, 450,467 trucks were transported between Kolad and Surathkal, averaging 93 trucks per day (based on 2018-19 traffic).



## Multi-Modal Logistics Park at Balli Station Madgaon.

The project will provide advanced facilities for economic transport, reducing transit time between JNPT Port (Mumbai) and Goa from 30-40 hours by road to 16-18 hours by rail. The park is expected to handle 30 container trains per month, boosting container traffic to Jawaharlal Nehru Port Trust (ICD Balli).



## Verna Warehouse, Goa

A 945 sq. m. warehouse was built at Verna with an investment of ₹1.05 crore. Konkan Railway Corporation Limited (KRCL) and Central Warehousing Corporation (CWC) are developing goods sheds and rail-side warehousing at Indapur, Verna, Udupi, and Thokur as part of Phase I along the Konkan Railway route.



Source:- [PIB](#), [Konkan Railway](#), [Times of India](#)

## Official Statements from Government Representatives

The double tracking aims to boost domestic tourism in Goa and improve connectivity to Andhra Pradesh and Tamil Nadu. Additionally, it enhances defense logistics, allowing swift movement of troops and materials in emergencies due to Goa's strategic western coast location.

**SWR Deputy General Manager E Vijaya**



The double-tracking project is expected to increase the daily passenger count on the route from the current 6,000-7,000 to an estimated 54,000-65,000 passengers.

**Chief minister of Goa**



In the future, the double track will allow trains to run faster, reducing the prices of goods like cement in Goa by 30%. The track doubling project will benefit all Goans.

**Dhavlikar, Minister, Goa**



Source:- [Oneindia.com](http://Oneindia.com), [Indianexpress.com](http://Indianexpress.com), [The Goan](http://The Goan)

# Conclusion



The vision of a "vibrant Goa" with a thriving economy can only be achieved by establishing a rail network that effectively meets the future transportation needs.



Double tracking will alleviate congestion on the railway lines, allowing for smoother and more efficient train operations



Railways offer a cost-effective alternative to road transport, reducing logistics costs for businesses. This is particularly beneficial for industries such as mining, agriculture, and manufacturing, which rely on bulk transportation



The Indian Railways' double-tracking project in Goa is also critical from a "defense strategic" perspective, as it will help meet the logistical needs of the Navy.



**MANGAL ANALYTICS AND<sup>®</sup>  
RESEARCH CONSULTING**

Delivering Excellence, Partnering Success.

## Contact



+91-9359628675



[contact@marcglocal.com](mailto:contact@marcglocal.com)



[www.marcglocal.com](http://www.marcglocal.com)



2<sup>nd</sup> floor, CMM bldg. Rua de Ourem,  
Panaji Goa 403001