

CHAPTER: 14 TRANSPORTATION, COMMUNICATION AND TRADE

GEOGRAPHY



CLASS 10th · GSEB

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1 Ancient Roads in India

Ashoka & Chandragupta Maurya



2 Supports Railways, Waterways, Airways



3 Door-to-Door Service



4 Connects People & Places



Roads / Land Transportation

5 Cheap & Flexible Transport



6 Safe & Time-Saving



7 3rd Largest Road Network

After USA & China



8 Goods & Freight Transport



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Types of Roads / Land Transportation

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1. National Highways

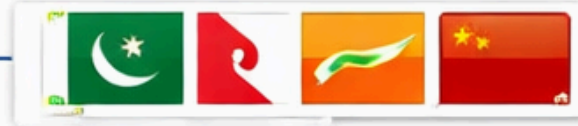
Built by Central Government



Connecting Major Cities & Ports



Links to Neighbouring Countries



NH-44 (Srinagar to Kanyakumari)



Golden Quadrilateral



2. State Highways

1 Built by State Governments



2 Connects Districts & Capitals



3 Important for Trade & Industry



Types of Roads / Land Transportation

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3

District Roads



- Connect villages and towns with **district** and **taluka** headparters.



- Mostly **metalled roads** now.



- Maintained by **District Panchayats**.



4

Village Roads



- Built and maintained by **Gram Panchayats**.



- Mostly **unmetalled**, difficult to use during the rainy season.



- Improved under **Pradhan Mantri Gram Sadak Yojana** by converting them into metalled roads.



Pradhan Mantri
Gram Sadak Yojana

Types of Roads / Land Transportation

5

Border Roads



Constructed by **Border Roads Organisation (1960)**



Built in border and hilly areas for national defence



Includes **road construction, maintenance and snow clearance**



Maintained by **Disriet Panchayats**

6

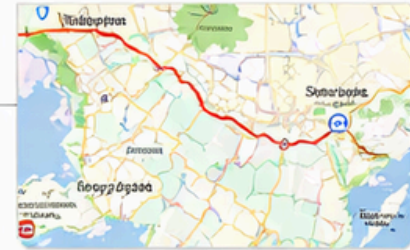
Expressways



• High-speed roads with no crossings



• Toll tax is charged



• **Example: Ahmedabad-Vadodara Expressway**

• Major ports are connected through expressways



Traffic Problem

1 Increase in Population & Vehicles



2 Limited Road Space



3 Encroachments & Rallies



4 Traffic Jams in Big Cities



5 Hours of Congestion



6 Problems Faced by People



Students



Patients



Patients



Office-Goers



Travellers

Suggestions to Reduce Traffic Problems

1 Have a Valid Licence



2 Follow Traffic Rules



3 Avoid Mobile Phones While Driving



4 Always Give Way to Emergency Vehicles

8 Park Only in Designated Areas



5 Maintain Safe Distance & Drive Within Speed Limits



7 Use Public Transport or Cycle for Short Trips



6 Wear Helmet & Seat Belt



9 Reduce Speed Near Schools & Hospitals



10 Keep First Aid Kit & Fire Extinguisher



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History of Railways

1. First Train in 1853
Mumbai to Thane



Types of Tracks

2. Broad Gauge
3. Metre Gauge
4. Narrow Gauge



Metro & Monorail

5. Metro Services in Delhi, Kolkata & Jaipur
6. Monorail in Mumbai



Gauge Conversion

10. Metre & Narrow to Broad Gauge



18. Defence & Emergency Services
9. Food Grain Transport



Indian Railways



Dense Railway Network

11. Plains & Industrial Areas
12. Mountain & Tunnel Routes



Railways in Gujarat

15. Ahmedabad Station
16. Major Junctions:
Rajkot, Vadodara, Surat



Special Facts

13. Longest Route: Dibrugarh to Kanyakumari
14. Modern Facilities & Safety



Waterway Transportation in India

1. Internal Waterways



1. NW-1: Ganga River (Haldia to Allahabad)
1620 km



2. NW-2: Brahmaputra River (Dhubri to Sadia)
891 km



3. NW-3: West Coast Canal (Kollam to Kottapuram)
250 km



4. NW-4: Godavari-Krishna (Kakinada to Puducherry)
1078 km

NW-5: Brahmani River (Goenkhal to Talcher)
588 km



2. Oceanic Waterways

1. 7516 km Coastline

2. 13 Major Ports



Important West Coast Ports:



1. Kandla



2. Mumbai



3. New Mangalore

Important East Coast Ports:



1. Kolkata



2. Visakhapatnam



4. Chennai



2. Chennai



4. Paradip

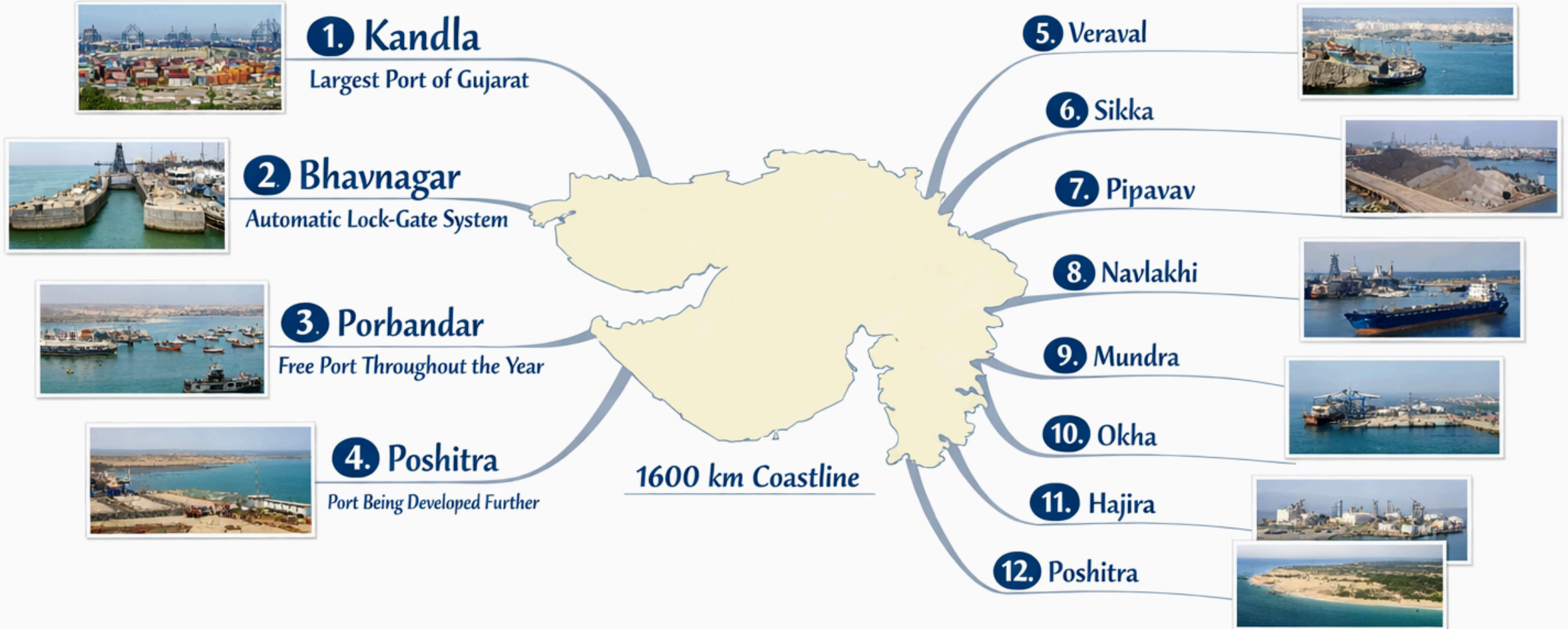


4. Paradip

Ports of Gujarat

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Other Major Ports of Gujarat





Airways in India

1 Fastest but Most Expensive



2 Reach Remote Areas & Dense Forests



3 First Air Mail Service: Allahabad to Naini



7 Major International Airports



- Delhi
- Mumbai
- Chennai
- Kolkata
- Bengaluru
- Ahmedabad



4 Air India & Private Airlines



5 Managed by Airport Authority of India (AAI)



6 127 Airports Managed by AAI

15 International Airports

87 Domestic Airports

25 Civilian Terminals

8 Pawan Hans Helicopter Services



1. Pipelines carry liquids and gases like water, oil, and natural gas.



2. Naharkatia to Nunmati-Barauni



3. Kalol to Koyali & Salaya to Mathura



Pipeline Transport

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4. Bombay High to Mumbai Coast



5. Khambhat-Dhuvaran-Koyali-Ahmedabad Gas Pipeline



6. Cooking gas to Surat, Bharuch, Vadodara, Ahmedabad, Jamnagar, Morbi, Rajkot & Gandhinagar



1. Mountainous Areas



2. About 100 Ropeways in India



3. Popular Locations



Darjeeling



Kullu-Manali



Cherrapunji

4. In Gujārat



Pavagadh



Saputara



Ambaji

Ropeway Transport

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5. New Project at Girnar



Girnar Ropeway.

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Communication

1. Meaning



Sending & receiving information

2. Disasters

Floods, Cyclones,
Earthquakes



3. Benefits

Economic, Social
& Cultural Growth



4. Ancient Methods

Drums, Smoke,
Pigeons, Animals



1. Individual Communication

- Internet & Smartphones
- Email, Online Shopping
- Social Media Apps



5. Modern Methods



Post, Telephone, Mobile, Satellite



6. Science & Technology

Fast & Easy Communication



2. Mass Communication

a. Print Media

Newspapers, Magazines



b. Electronic Media

Radio & Television



Prasar Bharati



• Akashvani (Radio)

अवकाशवाणी



• Doordarshan (TV)

Doordarshan

1. Artificial Satellites



Communication & Control

2. INSAT Satellites



Multi-Purpose

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Satellite Communication

3. Weather & Disaster Management



Forecasting & Warnings

4. Research & Telecasting



5. PSLV & IRS Satellites



Remote Sensing

Trade

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1. Internal Trade

Trade within the Country



2. International Trade

Trade Between Countries



3 Positive Trade Balance

Exports > Imports



4 Negative Trade Balance

Imports > Exports



5



6 Foreign Exchange & Currency Value

6

**ECONOMIC
LIBERALISATION 1991**

7 1991 Liberalisation

7

"Make in India"



Trade of India

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1. Import Trade of India

- Petroleum & Lubricants



- Iron & Copper



- Machinery



- Pearls, Gemstones & Edible Oils



Major Import Countries:



USA



Germany



Russia



Myanmar



Iran



2. Export Trade of India

Limited Exports to Keep Prices Stable

- Minerals & Iron Ore



- Engineering Goods



- Railway Coaches & Software



- Chemicals & Medicines



- Gems & Jewellery



- Textiles & Leather Goods



- Fish, Handicrafts, Tea & Coffee

