



[lass-x chapter-7 [Gieography] Life lines of National Economy Irade, transport and Communication Trade Transport Develop Science and technolog Expanded trade and transport · Were ristricted to limited Space 1) Connectivity • Transport + Communication = Huge trade [Global village] [Railways, Waterways] [Radio, Internet] [local to International] Dense and efficient network of transportation and Communication is pre-requisite for local, National and Global trade of today.



<u>(lass-X Chapter-7 [Greography] Lifelines</u> of National Economy

Transportation: Roadways

⇒ One of the largest road network in the world. [Aggregating to about 2.3 Million km]
※ Roadways have preceded railways. Reasons ??
(a). Construction cost is much lower.
(b). Roads Can travense/Cross Companyatively more dissected and undulating topography.
(c). Roads Can negotiate high gradients of slopes.
(d). Road transportation is economical to transport goods and persons over <u>short</u> distance.
(e). Provide door-to-door Service, thus Cost of loading and unloading is much lower.
(f). Road transport is also used as a feeder to other modes of transport.



Class-X Chapter-7 Geography Lifelines of National Economy_

Classification of Roads - I

1). Golden Quadrilateral Super Highways: 🗇 linking Delhi - Kolkata - Chennai - Mumbai - Delhi by size lane super highway.

⊕ consist of North-South Corridors linking Stringar (J\$K) to kanyakumani [T.N]. East-west Connidons linking

Silcher [Assam] to porbondar (Gujrat).

@Implemented and maintained by (NHAI) National

Highway authority of India. Gonnecting Mega Cities.

- 2). National Highways:
- extrem parts of Countries. Various () linking State Capitals.
- Shaid and maintained by Central public works Departments [CPWD]
 - DSpread all over the Country evenly.
 - 3). State Highways:
 - @ Roads linking a state Capital with different district headquarters.

@ constructed and maintained by the State public works Department [PWD]



Class-X Chapter-7 Greography Lifelines of National Economy_ (lassification of Roads - IT 5). Border Roads: 4). District roads: Border Roads organisation [BRO], Roads Connecting district headquarters with a government of India undertaking. other places of the district. established in 1960. Demonstrained by zila parishad. @ Roads made on border areas of 5). Other Roads the Country. @ Runal noads [linking nunal areas and villages with towns.] @ Constructing roads in remote areas @ special benifits under pradhan manthi Ginameen had helped in economic development sadak yojana. @Constructed to increase the connectivity between these area. of village and town by an all season motorable road.



Class-X Chapter-7 Geography Lifelines of National Economy
(lassification of Roads - III
→ Classification on the basis of the types of Material used.
() Metalled Roads
→ Made of Cement, Concrete or even bitumen of Coal. → Made of Mud and Sand.
> All weather road.
<u>Some facts</u> :
National Highway No. 1 = Sher shah Suri mang[Between Delhi and Amritsar]
> National Highway No. 7 = longest NH [2,369 km] Fram Wakanasi to Kanahun ni

National Highway No.7 = longest NH [2,369 km] From VOHANASI to Kanyakumari.
 National Highway No.8 = Connects Delhi to Mumbai.
 National Highway No.15 = Covers Most of the Rajosthan.



(lass-x Chapter-7 (Geography) Lifelines of National Economy <u>Road Density</u> The length of road Per 100 Sqlkm of area. Distribution is not uniform in the Country. Con 31 March 2011] $\int \Rightarrow 1/2 \cdot 1/4 \text{ km} [J \otimes K]$ to $\int 517.77 \text{ km} [Kernola]$ if Challanges faced by Road transportation =(1. large volume of traffic and Passengers and road network is not Sufficient for it. (1. large volume of traffic and Passengers and road network is not Sufficient for it. (1. large volume of traffic and Passengers and road network is not Sufficient for it. (1. large volume of traffic and Passengers and road network is not Sufficient for it. (1. large volume of traffic and Passengers and road network is not Sufficient for it. (1. large volume of the brades are unmethaled. They are of No use in rainy Season. (1. large of the brades are congested in cities. (1. Whost of the bridges and Culverts are old and Narthow.



[lass-x Chapter-7 [Geography] Lifelines of National Economy Transportation: Railways ⇒ Mode of transportation for both freight and Passangers. > Used for multiple activities like Business, Sightseeing, Pilgrimage and transportation Goods over long distance. > A great integrating force for economy. Accelerate the development - of the Industry and Agriculture. railways is largest public Sector under taking in the Guntry. > Indian Indian Railways 7,133 Sations " finst train !! Spread over 64,460 km Reorganised into <u>16</u> zones Mumbai to Thane in 1853 34 km.



[lass-x Chapter-7 (Geography) Lifelines of National Economy Distribution <u>pattern of Railways</u> in India > The distribution pattern is influenced by physiographic, economic and adiministrative factors. · Peninsular region • Northern plains • Himalayan Mountains -> Plain area and high -> unfavrable for noilway > Hilly area construction. Population. > Track are to be laid 1 in Railways. → High relief, Sporse population from gaps and tunnels. → But large number of rivers ond lack of economic opportunity Require Construction of bridges. ... I development of Railways.



<u>(lass-x Chapter-7 (Geography) Lifelines of National Economy</u> <u>(hallenges faced by Railways</u> I) Difficult to lay railway lines in areas such as → Sandy plains of Rajasthan O Swamps of Gujnat → O forested tracks of Madhya prodesh, chattisganh O Hissa and Jhankhand. → O Strech of Sahyadni Cauld be Crossed only through gaps and passes. 2) Mony passangers travel without ticket. 3) Theft and damaging railway property still Continuus. 4) Unnecessarily chain pulling.



Liss-x Chapter-7 (Greography) Lifelines of National Economy <u>Pipelines</u> New found Means of transportation. + Earlier used to transport water. Now transportation of Grude oil, petroleum products and natural gas to refinencies, fentilizer factories and big thermal plants is done by pipelines. # Solids -> Slunny -> Transported through pipelines. > Initial Cost [Establishment] [] Running Cost [Maintenance] [] () Also there is low chances of Trans-shipment losses and delays.

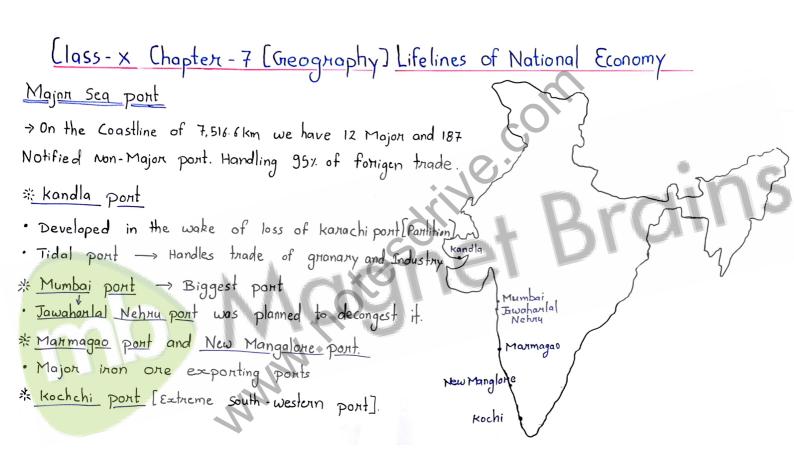


Lass-x Chapter -7 [Geography] Lifelines of National Economy Important networks of Pipeline transportation (1). Upper Assam to kanpurt > Via Guwahati, Barauni and Allahabad. (11) from Salaya in Gujarat to Jalandhar in Punjab > Via Viramgam, Mothura, Delhi and Sonipat (11) from Hozina in Gujarat to Jagdishpurt in Opp > Via Vijaipurt, Kota, Shahajahanpuri, Babrola. (11) from Hozina in Gujarat to Jagdishpurt in Opp > Via Vijaipurt, Kota, Shahajahanpuri, Babrola.

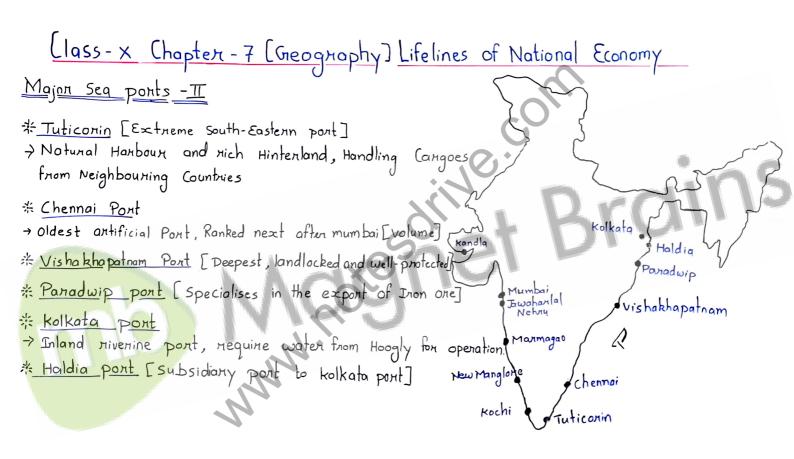


[lass-x Chapter-7 (Geography) Lifelines of National Economy <u>Waterways</u> ⇒ Role played by it in Spreading Indian Commerce and Culture Sadiya → cheapest means of transport. [In terms of volume] →fule efficient and Environment friendly. Allahabad N.W - 1 * National Waterways GTOENKHALT N.W. NO -1 [Allahabad to Haldia] 1620 km [Ganga niver] Takhen N.W-5 N.W. No - 2 [Sadiya and Dhubri] 891 km [Brahmaputna R] . N.W. NO-3 [West - Coast Canal, Kerala] 205 km. >[kottapurma - kollam, Udyogamanda] and champakkara (anals] Kakinada · N.W. No-4 [Stretches of Godavani and Krishna] 1078 km N.W-4 Kottapuram Puduchery · N. W. NO - 5 [stretches of River Brahmani, Mahanadi delta] 588 km. N·W-3 Kollam

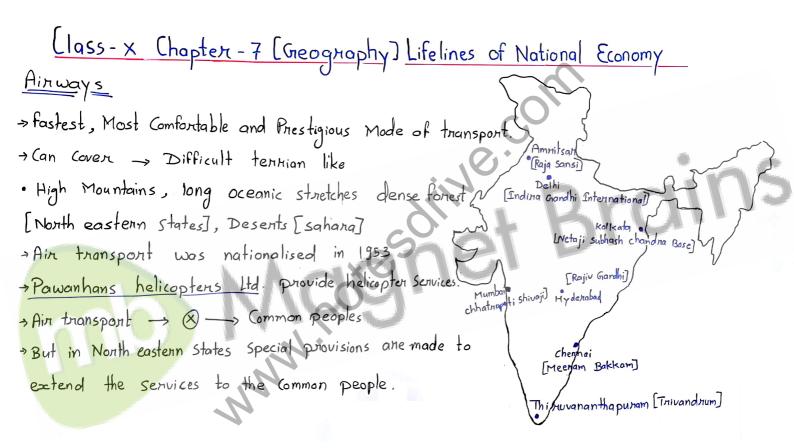














[lass-x Chapter-7 [Geography] Lifelines of National Economy

<u>Lommunication</u>

- . It is there since humas appeard on the earth. But, the pace of change has been rapid in modern times.

- . Indian postal network is the largest in the world.
- . One of the largest telecom networks in Asia.
- (Mass Communication)
- → All India Radio (Akashwani)
- → National television Channel (Doordanshan)
- > Newspapens [about loo languages and dialects]
- > India is largest producer of feature films [Central board of film Certification] Certify films.
- STD [Subscriber Trunk dialling] → 2/3 of village are coveried by it. → 24 hours STD facility to every village. → Integrating Space technology with Communication



Llass-x Chapter-7 (Geography) Lifelines of National Economy International Trade > The exchange of goods and Services among people, states and Countries is referred as trade. When Such trade takes place between two Countries it is know as International trade. (Manket) (Routes) -> Land, water and air. (Economic Barometer) Space bound → ... International trade is Necessity. але -> Resources · Balance of Trade [Bot] -> The difference between the export and import of any country. (iii)unfavorable balance of trade = [Export < Imports] (i) favourable balance of trade = Exports > Imports > Commodities which India exports : Agriculture products, one and Minerials, gems and jewelleny. etc which India Imports : petroleum and petroleum products, pearls and precious stones.etc. -> Commodities -> Exchange of Goods and Services () > with IT. India = Software gaint [Exporting IT Services and good]



[lass-x Chapter-7 [Geography] Lifelines of National Economy Tourism as a Trade

- ⇒ Tourism: A Sector having potential to genrate More employment and economic activity. • foreign tourist annivals () by 11.8% during 2010 as against the year 2009.
- · Contributing to Rs 64,889 Crore of Foreign exchange in 2010.
- 5.78 Million foreign tourist visited India in 2010.
- · Benefits of tourism :
- > If Promotes National Integration, provide Supports local handicrofts and cultural pursuits.
- > It develops an international understanding about our culture and heritage.
- > foreign tourists visit India for : Heritage, eco, cultural, Adventure, medical and business tourism.

