

(lass-x chapter - 7 (Greography) Life lines of National Economy
Trade transport and Communication
(Trade Transport and Communication → Development in Science and technology
• Were ristricted to limited Space
• Transport + Communication = ① Connectivity = Huge trade.
[Railways, Waterways] [Radio, Internet] [Global village] [local to International]
• Development and transport.

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

(b) Roads Can travense/Cross Comparatively more dissected and undulating topography.
(c) Roads Can negotiate higer 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 Greography Lifelines of National Economy_

<u>Classification of Roads - I</u>

1). Golden Quadrilateral Super Highways: (a) linking Delhi - Kolkata - Chennai - Mumbai - Delhi by size lane Super highway. (consist of North-South Corridors linking Stringgar (J&K)

to kanyakumani [T.N]. East-west Солніdons linking Silchen [Assam] to роньопдал (Gujnat). @Implemented and maintained by (NHAI) National

Highway authority of India.

Gonnecting Mega Cities.

- 2). National Highways:
- Inking extrem parts of Countries. Various state Capitals.
 Kaid and maintained by Central public works Departments [CPWD]
 Spread 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], a government of India undertaking. Roads connecting district headquarters with other places of the district. established in 1960. Maintained by zila ранishad. ⇒ Roads made on border анеаз 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 of these area. village and town by an all season motorable road.

Class-X Chapter-7 Greagraphy Lifelines of National Economy_
<u>(lassification of Roads - III</u>
Classification on the basis of the types of Material used.
<u>(i) Metalled Roads</u>
→ Made of Cement, Concrete or even bitumen of Coal.
→ All weather road.
<u>*: Some facts:</u>
→ National Highway No. 1 = Sher shah Suri marg [Between Delhi and Amritsar]
→ National Highway No. 7 = longest NH [2,369 km] From Vorranasi to Kanyakumari.

→ National Highway NO B = Connects Delhi to Mumbai.

→ National Highway No.15 = Covers Most of the Rajasthan.

Llass-x Chapter-7 (Geography) Lifelines of National Economy <u>Road Density</u> → The length of road Pen 100 Sq1km of areq. → Distribution is not uniform in the Country. Eon 31 March 2011] $\int = \frac{1}{2.14} \text{ km} [J & k]$ to $\int = 517.77 \text{ km} [kenala]$ $\int = 142.68 \text{ km} [National] fivenage]$ $\stackrel{\text{Kenalages faced by Road transportation ÷}$ (1) large volume of traffic and Passengens and road network is not Sufficient for it. 11) Half of the roads are unmettaled. They are of No use in rainy Season. 11) Roads are Congested in Cities. (iv) Most of the bridges and Culvents are old and Nathow. Lifelines of National Economy <u>Transportation</u>: <u>Railways</u> → Mode of transportation for both freight and Passangers. → Used for multiple activities like Business, Sightseeing, pilgnimage and transportation of Groods over long distance. → A great integrating force for economy. Accelrate the development - of the Industry and Agriculture. → Indian trailways is largest public sector under taking in the Guntry. <u>Indian trailways is largest public</u> Sector under taking in the Guntry. <u>Indian trailways is largest</u> <u>Public</u> Sector under taking in the Guntry. <u>Indian trailways is largest</u> <u>Reorganised into 16</u> zones

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

Distribution pattern of Railways in India

* The distribution pattern is influenced by physiographic, economic and adiministrative factors.

- · Northern plains
- → Plain area and high Population.
- 1 in Railways.
- →But large number of rivers Require Construction of bridges

- Himalayan Mountains
 → Unfavrable for railway
 → Track are to be laid construction.
 → Track are to be laid construction.
 → High Relief, Sparse population ond lack of economic opportunity . I development of Railways.

Lass-x Chapter - 7 (Greography) Lifelines of National Economy (hallenges faced by Railways 1) Difficult to lay railway lines in areas such as → · Sandy plains of Rajasthan • Swamps of Gujnat → • forested tracks of Madhya prodesh, chattisganh • Otissa and Jharkhand. → • Strech of Sahyadri Could be Crossed only through gaps and passes. 2). Mony passangers travel without ticket. 3). Theft and damaging railway property Still Continuous.

y). Unnecessatily chain pulling.

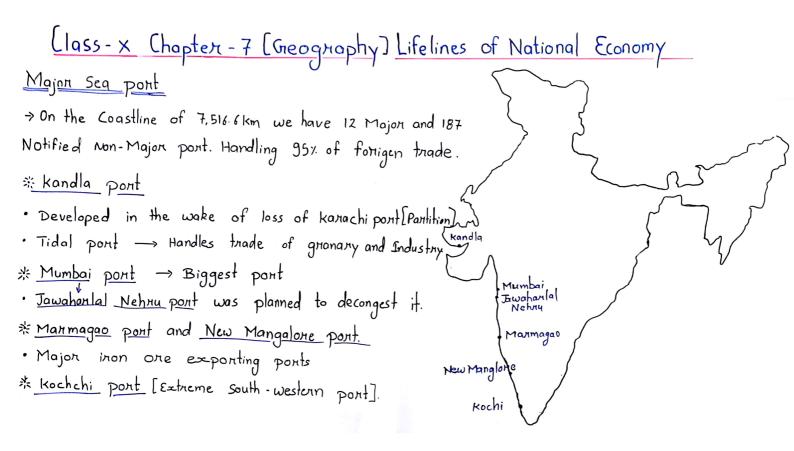
<u>Llass-x Chapter-7 (Geography)</u> Lifelines of National Economy <u>Pipelines</u>

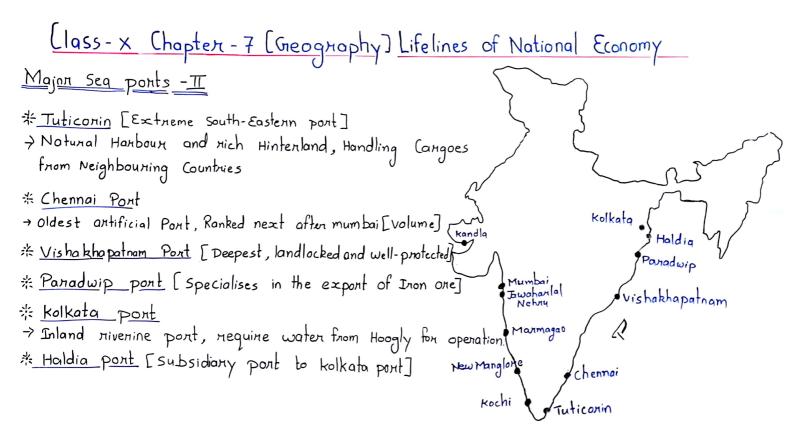
→New found Means of transportation.

> Earlier used to transport water. Now transportation of Crude oil, petroleum products and natural gas to refineries, fertilizer factories and big thermal plants is done by pipelines.

* Solids -> Slurry -> Transported through Pipelines. > Initial Cost [Establishment] (1) => Running Cost [Maintenance] (1) (3) • 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 (i) Upper Assam to kanput → Via Guwahati, Barauni and Allahabad. (ii) from Salaya in Gujarat to Jalandhar in Punjab → Via Viramgom, Mothura, Delhi and Sonipat (iii) from Hozina in Gujarat to Jagdishput in U·P → Via Vijaipur, Kota, Shahajahanpur, Babrala.

[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-I * 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 [Brahmaputra R] . N.W. NO-3 [West - Coast Canal, Kerala] 205 km. →[kottapurma - kollam, Udyogamanda] and champakkana (anals] Kakinada · N·W· NO-4 [Stretches of Godavari and Krishna] 1078 km N.W-4 Kottapunam Puduchery • <u>N. W. No-5</u> [stretches of River Brahmani, Mahanadi delta] 588 km. N·W-3 Kollam





[lass-x Chapter-7 (Geography) Lifelines of National Economy <u>Airways</u> -> fastest, Most Comfortable and Prestigious Mode of transport. Amnitsat + Can Cover -> Difficult terrion like (Raja sons Delhi · High Mountains, long oceanic stretches dense forest N [Indina Gondhi Internationa] [North eastern states], Desents [sahara] Kolkata LNetaji subhash char > Air transport was nationalised in 1953 → Pawanhans helicoptens Ltd. provide helicopter Services [Rajiv Gandhi] Mumbail shivaji) Hydenabad → Air transport → × → Common peoples ⇒ But in North eastern States Special provisions are made to [Meenam Bakkam] extend the services to the common people. huvanantha putram [Trivandrium]

Llass-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.

<u>STD[Subscriber Trunk dialling]</u> → 2/3 of village are covered by it. → 24 hours STD facility to every village. → Integrating Space technology with Communication

(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 Centification] Centify films.

(lass-x Chapter - 7 (Geography) Lifelines of National Economy International Thade 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. (Market) (Routes) → Land, water and air. (Economic Barometer) → Resources are Space bound → ... International trade is Necessity. . Balance of Trade [Bot] → The difference between the expant and import of ony Country. (b) for vourable balance of trade = [Exponts] Imports] (W) unfavorable balance of trade = [Exponts] Imports] → Commodities which India exponts : Agriculture products, one and Minerals, gems and jewelleny.de → Commodities which India Imports : petroleum and petroleum products, pearls and precious Stanes.de. → Exchange of Goods and Services () → with IT. India = Software gaint [Exponting IT Services and good]

Llass-x Chapter-7 (Geography) Lifelines of National Economy Tourism as a Trade

- → Tourism: A sector having potential to genriate More employment and economic activity.
 foreign tourist arrivals (1) 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.