

Modes of Transportation

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ABSTRACT

Transportation plays an important role in day to day life. It is more important for the people to travel from one place to another and also it is used to carry the goods from place to another at the specified time. This paper gives an overview on the transportation. We have been discussed about the introduction, types, advantages and disadvantages etc in this paper.

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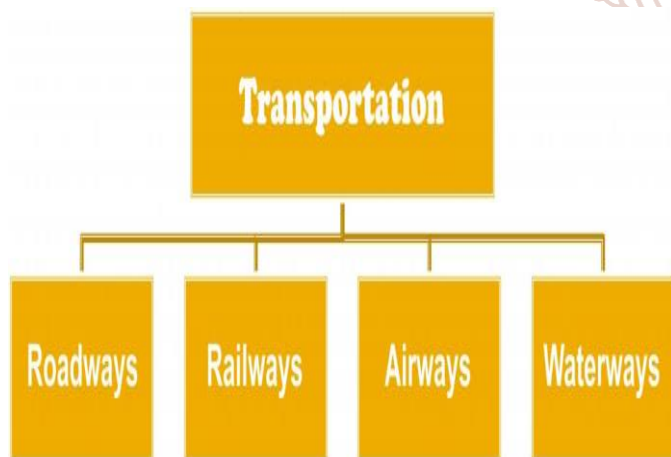
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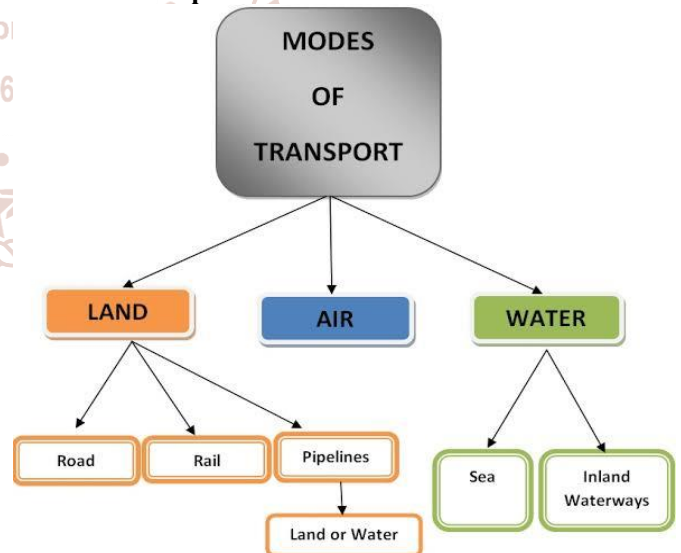


INTRODUCTION

Transportation is the movement of animals, humans, and goods from one location to another using a variety of vehicles cross different infrastructure systems. Transportation enables the trade between people which is essential for the development of civilizations. The transportation infrastructure consists of fixed installations, including roadways, railways, airways, waterways etc.



Modes of transportation



Types of transportation

1. Land transport

- Pathways
- Roadways
- Tramways
- Railways

2. Water transport

- Inland
- Ocean
- Overseas

3. Air transport

- Aeroplane
- Helicopter

Land transport

Land transportation is the first category which is the most common method of transport. In the past humans, animals were carrying the goods from one place to another but now the technology has developed and updated in our day to day life and. The businesses also have improved all over the world. In today's life people invented cars, bikes, trucks, vans, trains etc. The most helpful transportation is land transportation and it is also the most common method of transportation and people mostly prefer to use it for short distances. The types of land transport are explained below.

1. Pathways



Pathways are of two types namely head load and pack animals. Head load is the one type of pathways which is used in hilly areas as well as in plain areas where they carry goods from one place to another in short. Pack animals is also a type of pathways in which animals carry goods from one place to another.

2. Road ways

Road transport or road transportation is one type of transport by using roads. The road transportation can be grouped into the transportation of goods and also the transportation of people. In many countries safety regulations and licensing requirements ensures a separation between the two countries. The movement along roads may be bike, automobile, truck, or by animals such as horse or oxen.



A truck or lorry is a motor vehicle designed to transport cargo. The trucks are very greatly in size, power, and configuration; smaller varieties may be mechanically similar to some automobiles.



3. Tramways

A tramway is one of the type of rail which runs on the tramway tracks along the public urban streets. The networks or lines operated by tramcars are called tramways. In today life most of the tram use electric powers. In large towns or cities, trams are often a good decision they fill the distance between the train and busses. The can be integrated with existing public transport and they can carry large number of peoples.



4. Railways

Rail transport is also called as train transport. It is a type of transport which runs on tracks. It is one of commonly used and the most important one, and very cost effective modes of commuting. And it is used to carry goods carriage from one place to another either long places as well as in short. Not only goods it is also used to carry passengers from one location to another location in today's life.



Advantages of land transportation

- Land transportation are economical
- It is safe and the damage to goods is generally less in land transportation because the handling is minimum.
- It is flexible and it can reach the actual place of loading and unloading.

- Unloading and loading of goods can be done quickly in land transportation
- Packing expenses are lowest in the land transport compared to other means of transport.
- The expenses of overhead are also less in case of the land transport.
- It helps to transport heavy goods from one location to another location.
- The effect of bad weather will not be more in land transport compared to any other transport.

Disadvantages of land transport

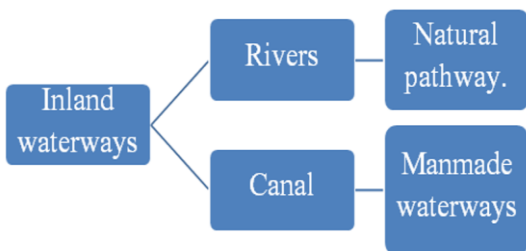
- The carrying capacity is less in land transport compared to other transportation
- The bad roads may cause some issues like breakdown and it result in delay of goods to the market place.
- It is undependable in the competitive nature of the Indian markets.
- The land transportation is not suitable for carrying goods for long distance (for example foreign destinations).
- Accidents often occur in highways this makes land transport highly unsafe.
- In land transport trains cannot carry goods or the passengers to the door step.
- In land transport rail is generally not suitable for the goods and passengers to carry at the short distance.
- In land transport railways have certain fixed routes if such route is blocked then it lacks flexibility.

Water transportation

Water transportation or water transport is the international movement of large distance over water. Water transportation is the process of moving people, goods etc. By boat, ship or sailboat over a sea, ocean, lake, canal and river etc. It is also called as marine shipping.

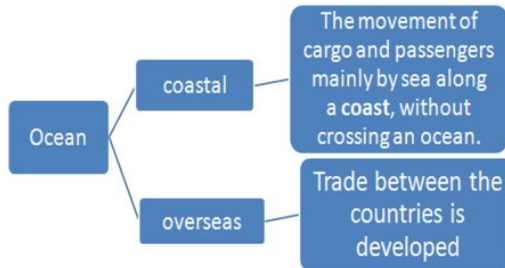


1. Inland water ways



Inland water transportation is an intermodal transportation for moving the passengers and goods from one place to another. There are two types of inland waterways namely rivers and canals. In there are 14,500km of navigable waterways. Out of these 5,700km is navigable by mechanized vessels.

2. Ocean



Ocean transport is the most important water transport because it has certain advantages over land carriages. The ocean transports are of two types namely costal and overseas. The sea offers a carriageway for ships, unlike the roadway or railway.



Overseas
1. Liners



An ocean liner is a passenger ship and cargo which is primarily used as a form of transportation across oceans or seas.

2. Tramps



A ship or a boat engaged in the tramp trade is one which does not have a fixed schedule or published ports of calls

3. Tanker



The ship designed to transport or store liquids or gas in bulk. Example oil tanker, chemical tanker, petrol tanker and gas carrier is known a tanker.

Advantages of water transport

- The water transport is known as the cheapest means of transport compared to land transport.
- Water transport has an advantage of high carrying capacity
- Water transport is the creator of the international trade.
- Water transport is especially suitable for certain areas.
- During the change of weather like flood and rains when the land transport is not available the relief operations can be done through the water transport.
- The development of shipping is also essential for the defence of the country it is also named as the second line of defence.
- Water transport plays an important role in foreign trade.
- India's foreign trade is mainly dependent on the water transport.
- Disadvantages of water transport
- Water transport is the slow means of transport.
- The failure of monsoon results into the fall in the water level which cause navigation difficult.
- There is always danger of sinking boats or ships.
- Water transport is more risky as compared to other transport.

Air transport

Air transport is the fastest mode of transport.



Air transport is the transport which connects the international boundaries. Air transport is the one of the fastest modes of public transport. It reduces the distance and travelling time. Air transport is very essential for a vast country (for example India) in which the climatic conditions are diverse and where the distances are large. Air transport carries the goods and passengers to very long place with less time.

Advantages of air transport

- Air transport will be regular and it is also comfortable for the people to travel and goods to carry.
- It is speedy and it is an unbroken journey.
- Air transport is an expansion of trade.
- Air transport is lesser cost for contraction and operation
- Air transport will be reliable in times of emergency.
- This transport is only means of perishable goods.
- Disadvantages of air transport
- Air transport is less safety compared to other.
- Air transport cannot serve all the areas.
- Air transport is more costly.
- It is not suitable for bulky goods.
- Air transport has a high degree of training.

Conclusion

In this paper we have discussed about the transportation and its types, advantages and disadvantage. The transportation is already one among in our day to day life and it is also an indispensable thing in our life. People always need to go from somewhere to another and carry goods from one place to another. For these, there are different types of transportations. We use land way to go home or to near places and the goods are travelled through the ships or tankers and the airlines are preferred to carry people and goods for a long distance. Namely transportation is a part of our life and as well as in daily life. Thus this paper gives a complete view on transportation.

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