

Highway Engineering



HIGHWAYS



INTRODUCTION

Highways:- Highways are special type of road which are designed to permit high speed of vehicles. It is generally constructed over an embankment.

Advantages:-

- 1. Better drainage facility
- 2. Safety in flood time
- 3. No lateral entry of traffic/ animal/ Public.



National highway,
State highway.

Expressways:- Expressways are Superior type of Highways designed as a direct connectivity b/w two places.

Expressways organise the traffic in channelised way.



- 1. Yamuna Express way
- 2. Mumbai - Pune express way.

DEVELOPMENT OF ROADS :-

- 1. Roman Roads - Plain earth roads
- 2. Turquet Roads - Aggregate used along with soil, stronger material at base like foundation of building.
- 3. Telford construction - used good material on the surface.

Telford - founder of ICE - UK.

- 4. Macadam roads - water + Aggregate + filter material clay.
- 5. Bituminous Macadam.



Roman Roads



Macadam Roads.

Drawback of Roman Roads

- 1. No Chamber
- 2. No drainage system
- 3. Large foundation stone.

HIGHWAY PLANNING IN INDIA

In November 1937 Govt appointed a road development committee headed by Mr M.R. Jayakar.

RECOMMENDATIONS OF JAYAKAR COMMITTEE :-

- 1. Road development should be considered as National interest.
- 2. An extra tax should be charged on

Highway And Railway Engineering Lecture Notes

Roman Wölfel



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