

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 + finer material clay.
5. Bituminous Macadam.



Roman Roads



Macadam Roads

Drawback of Roman Roads

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

RECOMMENDATIONS OF JAYAKR COMMITTEE :-

HIGHWAY PLANNING IN INDIA

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

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

Highway Engineering Notes

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