

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 - Aggregates 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

Ralph A. Moyer, John Hugh Jones



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