

No. NHIII/Coord/86/84

Dated the 26th June, 1985

CIRCULAR

This is with reference to CE (PL)'s Circular of even No. dated 21st March, 1985, wherein one road project of 1985-86 programme from each Project Zone was required to be identified and taken up for economic evaluation.

The data required for conducting economic analysis for such a project are listed in Annexure I enclosed. The Project Chief Engineers are requested to arrange requisite data collection for enabling economic analysis through the model already developed at I.I.T., New Delhi.

To

All Technical Officers in the Roads Directorate at the Headquarters.

ANNEXURE I

DATA REQUIRED FOR ECONOMIC ANALYSIS FOR HIGHWAY PROJECTS

I. GENERAL INFORMATION

An index map showing the proposal, brief description of the proposed project and scope of work envisaged may be furnished. Broad features of existing road, the present impediments to traffic and the proposed improvements of the existing facility may be described. The existing geometrics, pavement width, type of surface and shoulder details may also be included herein. The road section should be analysed dividing it into various subsections (links) for every change in traffic volume/terrain. Data should be supplied for each of the link as indicated in Item II below. The model developed in the Ministry is applicable to development of existing two lane roads. The various links of the existing & proposed facility may be indicated with their numbers in the Index Map.

II. DATA REQUIRED FOR ANALYSIS THROUGH COMPUTER

- (1) Link number
- (2) Improvement alternative viz. (i) 'Do Nothing' or No improvement (ii) Strengthening of pavement (iii) Widening to 4 lanes (iv) Construction of 4 lane expressway (v) Construction of 2 lane expressway (vi) Construction of 2 lane bypass.
- (3) Length of link (km)
- (4) Roughness of existing road (mm/km)
- (5) Total rise/fall (m/km)
- (6) Terrain viz. (i) Plain or (ii) Rolling or (iii) Hilly
- (7) Construction period for improvement envisaged (years)
- (8) Construction cost (Rs. lakhs) including all overheads charges.
- (9) Average daily traffic (number of vehicles) separately for (i) Cars (ii) Buses (iii) Trucks (iv) Two wheelers in 1985 on the existing facility.
- (10) Proportion of traffic that will be using the new facility (expressed as a fraction of existing traffic).
- (11) Existing proportion of slow moving vehicles (expressed as a fraction of total number of fast vehicles).
- (12) Speed of (i) Cars (ii) Buses (iii) Trucks (iv) Two wheelers on the existing road.
- (13) Percentage annual traffic growth for future (i) Cars (ii) Buses (iii) Trucks (iv) Two wheelers.