

No. RW/NHIII/COORD/86/84

*Dated the 17th September, 1984*

To

All State Chief Engineers dealing with NHs

Subject : Use of Computer-based Model for economic analysis of Highway and Bridge Projects.

As you are aware, the selection of a highway project should be determined on the basis of economic evaluation. The recently completed Road User Cost Study has provided the necessary data base for estimating the benefits from highway construction. Utilising these results, a computer-based highway design model has been developed by the Ministry in collaboration with the Indian Institute of Technology, Delhi. This model is at present capable of performing the cost benefit analysis of highway schemes which involve :—

- (i) Strengthening of two lane pavements
- (ii) Widening two lane pavements to four lanes
- (iii) Construction of four-lane expressways
- (iv) Construction of two lane bypasses.

The model has been used successfully for the economic analysis of certain projects which are being projected for assistance from the World Bank.

2. It is suggested that advantage of the capabilities now developed may be availed of by your Organisation when projecting highway and bridge schemes, covering the alternatives indicated above. Necessary assistance in this regard will be provided by the Ministry.

---