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No. RW/NHIII/COORD/84/84

*Dated the 10th May, 1984*

To

All Chief Engineers (dealing with National Highways).

Subject : Formulation of Seventh Five Year Plan 1985-90 for National Highways

As you are aware that the Seventh Five Year Plan (1985-90) will commence from next financial year and the Ministry is required to formulate programme for the development of National Highways for that Plan period. For this it is essential to identify the deficiencies on the National Highway System that would be existing on 1.4.1985.

The deficiency data on the National Highways System available in the Ministry at the time of formulation of Sixth Five Year Plan covered various deficiencies in the system like missing links, missing bridges, low grade sections, single lane roads etc. and these are quite old and thus need updating. In view of the meagre allocations made available for the removal of deficiencies in the Sixth Five Year Plan, only a limited programme could be tackled and still much remains to be done. Recently the Vohra Committee has assessed the requirement of funds for the removal of these deficiencies at Rs 4500 crores (at 1983 price level). As per the present price level this cost may go up further.

As the existing deficiencies are of huge magnitude and the investment required for their removal is so large, it is obvious that the whole programme cannot be tackled in one plan period and has to be phased out to at least over two Plan periods. Thus, the Seventh Plan can be formulated on the basis of removal of at least fifty per cent of the deficiencies.

The Ministry have evolved some proformae for assessing these deficiencies and these are enclosed. It is requested that the requisite information in the said proformae may kindly be furnished so that the deficiencies existing on all National Highways in the country could be quantified. Based on these deficiencies, a programme for the seventh Plan could then be drawn up. While assessing the deficiencies, all works sanctioned or proposed to be sanctioned upto 31.3.1984 should be considered as deficiencies already tackled and should not be included in the deficiency statements.

While the exact outlay for the Seventh Plan is still not known, the Working Group on Roads for the Seventh Plan has projected an outlay of Rs 3000-Rs 4000 crores for the National Highways. This is against

an outlay of Rs 660 crores provided in the Sixth Plan. This will give a rough idea of the likely outlay that might ultimately be agreed to by the Planning Commission.

In drawing up proposals for the Seventh Plan, it is requested that the following categories of works be kept in view :

*Road Works*

1. Construction of missing links
2. Improvements to low-grade sections
3. Reconstruction of culverts
4. (a) Widening and strengthening of single lane sections to two lanes  
(b) Widening single lane sections to two lanes without strengthening
5. Strengthening weak two lane pavements
6. Widening heavily trafficked two-lane sections to four lane divided carriageways
7. Construction of new Expressways on selected routes
8. Improvements to geometrics and road junctions where conditions are acute with prime importance to the provision of adequate sight distances
9. Removal of bottlenecks/congestions by  
(a) Construction of bypasses  
(b) Replacing railway level crossings with road over/under bridges
10. Permanent remedial measures for flood and cyclone-prone reaches
11. Road safety measures, such as provision of traffic signs, improvement of junctions and rectification of substandard geometric and cross-sectional deficiencies.
12. Wayside amenities like provision of rest places and truck parking complexes at suitable intervals and landscaping
13. Additions to the National Highway System.
14. Measures to contain ribbon development on existing sections so that the construction of costly bypasses is avoided.
15. Acquisition of land to bring the land width to National Highway standards.

*Bridge Works*

1. Construction of major and minor bridges on missing links and construction of missing bridges on other reaches.
2. Replacing submersible bridges with high level bridges.
3. Reconstruction of weak (unsafe for Class 18-R) and narrow major bridges.
4. Reconstruction or widening of weak damaged (unsafe for Class 18-R) or narrow minor bridges including replacing causeways and dips
5. Reconstruction of bridges which are safe for class 18-R loading but unsafe for Class 40-R loading.

In drawing up the proposals, the schemes under Arterial National Highways (Nos. 1, 2, 3, 4, 5, 6, 8, 25, 26, 7 (Shivpuri-Jhansi-Nagpur-Hyderabad-Bangalore\*) (\*Indicates section consisting of various NHs.) 31, 34, 37 and 40 (Calcutta-Dalkhola-Gauhati-Saikhoghat and Joraghat-and Jorahat-Shillong) may please be indicated separately since they are assigned a different priority.

It is requested that the deficiency statements and Plan proposals may please be furnished to this Ministry by 31st July, 1984.

It is also necessary to immediately identify the schemes to be taken up during the Annual Plan 1985-86. The first priority for inclusion in this list should be those works which were included in the Sixth Plan but could not be sanctioned till 31st March, 1984 and are not included in the 1984-85 list. Some further schemes can be included in the list of schemes that could not be sanctioned from the Sixth Plan if is not sufficiently large in any State. The list should be restricted to 3 times the amount of the 1984-85 list for each State. This list may also be furnished by the 31st July, 1984.

Encl : Set of proforma

*DEFICIENCIES ON NATIONAL HIGHWAY SYSTEM AS ON 1.4.1985*

*1 Construction of Missing Links*

State \_\_\_\_\_

S. No.	NH No.	Reach/Section (with Starting and ending km)	Total Length in (km)	Major Bridges if any (Nos.) and Waterway	Minor Bridges if any (Nos.) and Waterway	Total estimated cost (Rs crores)						Remarks
						Land Acqui- sition	Earth- work and cul- verts	Pave- ment single lane	Major Bridges	Minor Bridges	Total	
1	2	3	4	5	6	7	8	9	10	11	12	13

**II. IMPROVEMENT TO LOW GRADE SECTIONS**

State : \_\_\_\_\_

S. No.	N.H. No.	Reach/Section (with starting and ending km)	Present Status	Total Length	Estimated Cost (Rs crores)	Remarks
1	2	3	4	5	6	7

**III. WIDENING SINGLE LANE TO TWO LANES WITH/WITHOUT STRENGTHENING**

S. No.	NH No.	Reach/Section (with starting and ending km)	Total length km	Widening		Addl. Cost of strengthening (if required)		Present Traffic in terms of P.C.U.s. per day and commercial vehicles per day	Remarks
				Length km	Estimated Cost (Rs crores)	Length km.	Estimated Cost (Rs crores)		
1	2	3	4	5	6	7	8	9	10

**IV. STRENGTHENING EXISTING WEAK 2-LANE PAVEMENTS**

S. No.	NH No.	Reach/Section (with starting and ending km)	Total length km	Present traffic in terms of commer- cial vehi- cles per day	First Stage Strengthening		Second Stage Strengthening		Remarks (Proposal in brief)
					Length km	Estimated Cost (Rs crores)	Length	Estimated Cost (Rs crores)	
1	2	3	4	5	6	7	8	9	10

**V. WIDENING TO 4-LANES**

STATE

S. No.	NH No.	Reach/Section (with starting and ending km)	Total Length km	Major Bridges Nos.	Minor Bridges Nos.	Estimated Cost (Rs crores)					Present Traffic P.C.U.s. per day	Remarks
						Land Acqui- sition	Pave- ment (includ- ing E/W CD works etc.)	Major Bridges	Minor Bridges	Total		
1	2	3	4	5	6	7	8	9	10	11	12	13

**VI. PROVIDING BYEPASSES AROUND CONGESTED TOWNS OR IMPROVEMENTS AS PERMANENT SUITABLE URBAN LINKS.**

S. No.	NH No.	Reach	Name of Town to be bypassed	Length km	Estimated cost (Rs crores)				Remarks
					Land Acquisition	Cost	Bridges/ overbridges	Total	
1	2	3	4	5	6	7	8	9	10

Note : Information for those bypasses for which land acquisition has already been sanctioned should be given separately.

**VII. CONSTRUCTION OF RAILWAY TO OVER/UNDER BRIDGES**

S. No.	NH No.	Section	Location railway crossing	No. of closures in 24 hrs.	No. of fast moving vehicles per day	Train vehicles Unit per day	Estimated Cost (Rs crores)				Remarks
							Land acqui- sition	Appro- aches	ROB/ RUB proper	Total	
1	2	3	4	5	6	7	8	9	10	11	12

**VIII REACHES WITH INADEQUATE LAND WIDTH**

S. No.	N.H. No.	Section from km to km	Existing land width (m)	Proposed land width (m)	Estimated Cost (Rs crores)	Remarks
1	2	3	4	5	6	7

**IX MISSING MAJOR AND MINOR BRIDGES (OTHER THAN ON MISSING LINKS)**

S. No.	N.H. No.	Reach/Section	Location of missing major/minor bridges	Waterway needed (m)	Cost Rs	Total	Remarks
1	2	3	4	5	6	7	8

**X REPLACING SUBMERSIBLE BRIDGES WITH HIGH LEVEL BRIDGES**

S. No.	N.H. No.	Reach/Section	Location of Submersible bridge	Waterway needed	Cost Rs	Total	Remarks
1	2	3	4	5	6	7	8

**XI RECONSTRUCTION OF WEAK (UNSAFE FOR CLASS 18-R) AND NARROW MAJOR BRIDGES**

S. No.	N.H. No.	Reach/Section	Location	Waterway	Cost Rs	Total	Remarks
1	2	3	4	5	6	7	8

**XII. RECONSTRUCTION OR WIDENING DAMAGED, WEAK (UNSAFE FOR CLASS 18-R) OR NARROW MINOR BRIDGES INCLUDING REPLACEMENT OF CAUSEWAYS AND DIPS.**

S. No.	N.H. No.	Reach/Section	Location of minor bridges			Waterway	Cost Rs	Total	Remarks
			Weak or damaged	Narrow	Causeways and dips				
1	2	3	4	5	6	7	8	9	10

**XIII. RECONSTRUCTION OF BRIDGES WHICH ARE SAFE FOR CLASS 18-R LOADING BUT UNSAFE FOR CLASS 40-R LOADING.**

S. No.	N.H. No.	Reach/Section	Location	Waterway	Cost Rs	Total	Remarks
1	2	3	4	5	6	7	8