



GOVERNMENT OF INDIA
MINISTRY OF ROAD TRANSPORT & HIGHWAYS

Parivahan Bhavan,
1, Sansad Marg
New Delhi-110001

No.RW/NH-33044/3/2012-S&R(R)

Dated: 4 April, 2012

To

1. The Principal Secretaries /Secretaries of all States/U.Ts. Public Works Department dealing with National Highways, other Centrally Sponsored Schemes and State Schemes.
2. The Engineers-in-Chief and Chief Engineers of Public Works Departments of States/U.Ts dealing with National Highways, other Centrally Sponsored Schemes and State Schemes.
3. The Chairman, National Highways Authority of India (NHAI), G-5&6, Sector-10, Dwarka, New Delhi-110 075.
4. Director General (Border Roads), SeemaSadak Bhawan, Ring Road, NewDelhi-110 010.

Sub: Preparation of DPR/Feasibility study reports - option of split highway in case of four laning of hill roads.

In the case of hill roads, cutting the hill slope to provide conventional 4-lane road can lead to instability of hill slopes and inconvenience and safety hazard to traveler.

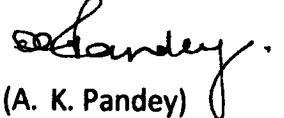
2. Clause 13.1.1 of IRC SP: 84-2009, "Manual of Specifications & Standards for Four-laning of Highways through Public Private Partnership" mentions that "The additional/new carriageway in hilly areas may either be constructed at the same level as that of the existing carriageway or at different levels to form a split highway depending upon the feasibility and geo-technical stability of the area." In view of the same, the consultants are required to explore the possibility of four laning of highway in hilly areas to be constructed as split highway with two-lane carriageways on different contours as one of the alternative.

3. As such, in case of four laning of hill roads, it shall invariably be ensured that the DPR/feasibility study reports contain recommendations on the option of split highway. Similarly, other options can be High-Pier Bridge Technology and tunnels depending upon techno-economic feasibility considerations.

4. It is further mentioned that the DPR/feasibility study reports, particularly for roads in hilly areas shall necessarily include provisions indicating measures for road safety in accordance with relevant IRC codes and Ministry's guidelines issued from time to time.

5. The contents of this circular may please be brought to the notice of all the concerned in your organization.

Yours faithfully,



(A. K. Pandey)

Superintending Engineer SR&T (Roads)
for Director General (Road Development) & SS

Copy to:

1. All the Technical officers in the Ministry of Road Transport & Highways
2. All ROs and ELOs
3. The Secretary General, Indian Roads Congress
4. The Director, IAHE
5. Technical Circular File of S&R Section
6. NIC - for office intranet