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NE RLY HQ

GORAKHPUR.

W/29/O/A/Pt.I/1

2nd June, 1989.

Bridge Circular No.7 (1989)

- The Divl. Railway Manager(Engg.),
SPJ,SEE,BSB,LJN, IZN.
- The Chief Workshop Manager(Bridges),
Gorakhpur.

Sub:- Minimum opening and standard spans of new bridges.

Detailed inspections of the minor bridges can be done properly, only where a person can go physically inside the bridge opening. For this a minimum opening is necessary. While rebuilding the existing bridges or constructing a new bridge, minimum opening will generally be as under :-

1. Clear span of 1.5M except in case of pipes.
2. In case of cross drainage pipe culverts, minimum pipe dia will be 1.2M. In case such minimum span involves undue raising of track, lesser diameter pipe may be used after the approval of CBE.
3. For formation heights, more than 3M above general ground level, minimum opening of 2M will be adopted.

2. Minimum opening stipulations in para 1. above will not apply to service conduits, transmission cables, water pipe lines etc. for which extant orders should be followed.

3. Standard spans:

1. NE Railway is already following the policy of using standard span lengths, (pursuant to 58th B.S.C. recommendation, item No. 688, approved by the Railway Board).
2. It is reiterated that only rational spans should be followed in the construction of the new bridges or rebuilding the sub-structures as given in para 3.3, 3.4 & 3.5 below.
3. Following clear spans may generally be adopted for other than pipe culverts:
1.5, 2.0, 3.5, 5.0, 7.5, 10.0, 15.0, 20.2, 30.0, 50.0, 75.0, 100.0 and 125.0M.
4. In case of girder bridges (ballasted or unballasted) clear spans of 12.2M (40'), 18.3M (60'), 24.4M (80'), 30.5M (100'), 45.7M (150'), 61.0M (200') and 76.2M (250') may be adopted on Techno-economic considerations.

P.T.O.

- 5 The pipe culverts of dia 1200 mm and above should be adopted as under : -

1200 mm
1400 mm
1600 mm
1800 mm

4. Type of construction:

- 1 As far as possible ballasted deck should be adopted for all spans upto 30.50M span as per Railway Board's latest policy contained in their letter No. 86/W1/BR-1/45 dated 22.6.87 (copy attached).
- 2 No new constructions or rebuilding (involving substructure) upto span of 6.1M (20') shall be done with steel girders.

DA:-*ccc*

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(EN GOIL)
Chief Engineer

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