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भारत सरकार - रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन
लखनऊ - 226011
Government of India-Ministry of Railways
Research Designs & Standards Organisation
Lucknow- 226011

No. CBS/DAB

Dated: 28.01.2015
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Principal Chief Engineer:


1. Central Railway, Mumbai CST-400 001.
2. Eastern Railway, Fairlie Place, Kolkata-700 001.
3. East Central Railway, Hazipur-844 101.
4. East-Coast Railway, Bhubaneshwar-751 016.
5. Northern Railway, Baroda House, New Delhi- 110 001.
6. North-Central Railway, Allahabad-211 001.
7. North Eastern Railway, Gorakhpur-273 001.
8. North-Western Railway, Jaipur-302 001.
9. Northeast Frontier Railway, Maligaon, Guwahati-781 011.
10. Southern Railway, Park Town, Chennai-600 003.
11. South Central Railway, Rail Nilayam, Secunderabad-500 371.
12. South East Central Railway, Bilaspur-495 004
13. South Eastern Railway, Garden Reach, Kolkata-700 043
14. South-West Railway, Hubli-580 023.
15. Western Railway, Mumbai-400 020.
16. West-Central Railway, Jabalpur-482 001.

Sub: Addendum & Corrigendum slip No. 8 to IRS Arch Bridge Code - 1962.

Ref.: Railway Board's letter No. 2012/CE-III/BR/BSC/82/Seminar/ Pt. dated 27.01.2015.

As approved by Railway Board vide letter under reference above, Addendum & Corrigendum Slip No. 8 to IRS Arch Bridge Code - 1962 regarding revision to clause 5.3.3 is enclosed for information and necessary action please.

Encl: As above.


(Pradeep Kumar)
Director/B&S/CB-II
For Director General

GOVERNMENT OF INDIA

MINISTRY OF RAILWAYS

(Railway Board)

INDIAN RAILWAY STANDARD

CODE OF PRACTICE FOR THE DESIGN AND CONSTRUCTION OF MASONRY AND
PLAIN CONCRETE ARCH BRIDGES

(ARCH BRIDGE CODE)

ADOPTED - 1941
FIRST REVISION - 1962

ADDENDUM & CORRIGENDUM SLIP NO. 8 DATED - 28.01.2015

Delete existing clause 5.3.3 and insert as following:

5.3.3 The load test shall be conducted, on Arch Bridge with Overall Rating Number (ORN) 1 or 2, only after complete pressure grouting of the masonry. The criteria for arriving at the safe load shall be:-

(i) Under the proposed load the crown deflection and spread do not exceed;

(a) 0.75mm and 0.4mm, respectively, for spans upto 1m;

(b) $0.75 + \frac{(L-1)}{3.5}(1.25 - 0.75)$ mm and 0.4mm, respectively, for span >1m to < 4.5m,

Where, L is span in meter;

(c) 1.25mm and 0.4mm, respectively, for spans 4.5m to 15m

(ii) There is no residual deflection or spread after release of load; and

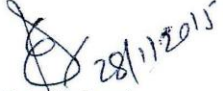
(iii) There is no crack appearing on the intrados of bridge.

Note: The above criteria will be applicable to segmental and non-segmental arches of spans up to 15m provided the span/rise ratio lies between 2 and 5.

Lucknow

Dated : 28.01.2015

BY ORDER


(H.L. Suthar)
Executive Director/Structures
R.D.S.O.