Prinicipal Chief Engineer:

1. Central Railway, Mumbai CST-400 001.
2. Eastern Railway, Fairlie Place, Kolkata-700 001.
4. East-Coast Railway, Bhubaneshwar-751 016.
5. Northern Railway, Baroda House, New Delhi- 110 001.
6. North-Central Railway, Allahabad-211 001.
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
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.
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) $0.75\text{mm} \text{ and } 0.4\text{mm}$, respectively, for spans up to 1m;
(b) $0.75 + \left(\frac{L-1}{3.5}\right)(1.25-0.75)$ mm and $0.4\text{mm}$, respectively, for span >1m to < 4.5m,
Where, $L$ is span in meter;

(c) $1.25\text{mm} \text{ and } 0.4\text{mm}$, 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.

BY ORDER

Lucknow
Dated: 28.01.2015

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