

I/38471/2023

राजेश कुमार श्रीवास्तव
Rajesh Kumar Srivastava
कार्यकारी निदेशक/पु0एवंसं0
Executive Director/B&S



भारतसरकार- रेलमंत्रालय
अनुसन्धानअभिकल्पऔरमानकसंगठन
लखनऊ- 226011
Government of India-Ministry of Railways
Research Designs & Standards Organisation
Lucknow- 226011
Phone / Fax : 0522-2450398
Email : edbsrdso@gmail.com

सं.: CBS/PBR

दिनांक: 03.02.2023

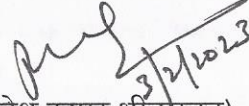
Principal Chief Engineers:

- | | |
|---|---|
| 1. Central Railway, Mumbai CST - 400001 | 9. North Western Railway, Jaipur - 302 001 |
| 2. Eastern Railway, Fairlie Place, Kolkata - 700 001 | 10. Southern Railway, Park Town, Chennai - 600 003 |
| 3. East Central Railway, Hazipur - 844 101 | 11. South Central Railway, Rail Nilayam, Secunderabad - 500 371 |
| 4. East Coast Railway, Bhubaneshwar - 751 016 | 12. South East Central Railway, Bilaspur - 495004 |
| 5. Northern Railway, Baroda House, New Delhi - 110 001 | 13. South Eastern Railway, Garden Reach, Kolkata - 700 043 |
| 6. North Central Railway, Prayagraj - 211001 | 14. South West Railway, Hubli - 580 023 |
| 7. North Eastern Railway, Gorakhpur - 273001 | 15. Western Railway, Mumbai - 400 020 |
| 8. Northeast Frontier Railway, Maligaon, Guwahati - 781 061 | 16. West Central Railway, Jabalpur - 482 001 |
| | 17. Metro Railway, Jawaharlal Nehru Road, Kolkata - 700 071 |

विषय: RDSO's Addendum & Corrigendum Slip (A&C Slip) No. 51 to IRS-Bridge Rules
संदर्भ: Railway Board's letter No. 2023/4/CE-III/BR/BSC/84/Seminar/Pt. Dated 01.02.2023

In reference to above, Addendum and Corrigendum slip No.- 51 dated 03.02.2023 to IRS Bridge Rules is being sent for your information & necessary action please.

सलसूक: Copy of A&C Slip No.51 to Bridge Rules.


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(Rajesh Kumar Srivastava)
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Executive Director/B&S

प्रतिलिपि:

- (A) 1. Additional Member (Civil Engg.) Railway Board, Rail Bhawan, New Delhi- 110001
2. Additional Member (Works) Railway Board, Rail Bhawan, New Delhi- 110001

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3. Principal Executive Director/Bridges, Railway Board, Rail Bhawan, NewDelhi-110001
4. Director General, Indian Railway Institute of Civil Engg.,Pune-411001
5. Executive Director Civil Engg./B&S, Railway Board, Rail Bhawan, Room No.140A, New Delhi-110001
6. General Manager(C),N.F.Railway, Maligaon, Guwahati- 781001
7. The Director General, National Academy of Indian Railways, Vadodara-390004

(B) The Chief Administrative Officer (Construction):

1. Central Railway, Mumbai CST-400001
2. Eastern Railway, Fairlie Place, Kolkata -700001
3. East Central Railway, Mahendrughat, Patna(Bihar) -800004
4. East Coast Railway, Bhubaneswar, (Orissa) -751016
5. Northern Railway, Kashmere Gate, Delhi -110006
6. USBRL Project, Northern Railway,Satyam Complex,Trikuta Nagar Extn.,Jammu-180 020
7. North Central Railway, Prayagraj, (U.P.) -211001
8. North Eastern Railway, Gorakhpur- 273001
9. North Western Railway, Jaipur (Rajasthan)-302001
10. Southern Railway, Egmore ,Chennai -600008
11. South Central Railway, DRM/Secunderabad Office Compound,Secunderabad-500371
12. South Eastern Railway, Garden Reach, Kolkata-700043
13. South East Central Railway, Bilaspur-495004
14. South Western Railway, No.18 Miller Road, Bangalore, (Karnataka) -560046
15. Western Railway, Mumbai - 400020
16. West Central Railway, Jabalpur (M.P.) -482001
17. North Frontier Railway, Maligaon, Guwahati-781011
18. CAO/ERS, Southern Railway, Ernakulam, Kerala-682506
19. CAO/North Frontier Railway-I,II,III, Maligaon, Guwahati-781011
20. CAO/ERS, Southern Railway, Ernakulam, Kerala-682506

(C) Chief Bridge Engineers:

1. Central Railway, Mumbai CST-400001
2. Eastern Railway, Fairlie Place, Kolkata -700001
3. East Central Railway, Hazipur- 844101
4. East Coast Railway, Bhubaneshwar- 751016
5. Northern Railway, Baroda House, NewDelhi-110001
6. North Central Railway, Prayagraj - 211001
7. North Eastern Railway, Gorakhpur- 273001
8. Northeast Frontier Railway, Maligaon, Guwahati-781061
9. North Western Railway, Jaipur- 302 001
10. Southern Railway, Park Town, Chennai -600003
11. South Central Railway, Rail Nilayam, Secunderabad-500371
12. South East Central Railway, Bilaspur-495004
13. South Eastern Railway, Garden Reach, Kolkata-700043
14. South West Railway, Hubli-580023
15. Western Railway, Mumbai - 400020
16. West Central Railway, Jabalpur-482001
17. Metro Railway, Kolkata -700071

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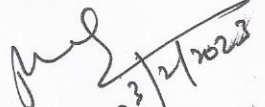
(D) Commissioner of Railway Safety:

1. Chief Commissioner of Railway Safety, N.E. Railway Office Compound, Ashok Marg, Lucknow- 226002
2. Central Circle, 2nd Floor, Churchgate Station Building Mumbai-400020
3. Eastern Circle, Multistoreyed Building of Eastern Railway, 12th Floor, Strand Road, Kolkata-700001
4. Northern Circle, near Centre for Railway Information System, Safdarjung Railway Station, New Delhi -110021
5. North Eastern Circle, DRM Compound, Northern Railway, Hazratganj, Lucknow-226001
6. Northeast Frontier Circle, 12 Strand Road, Multistoreyed Building of Eastern Railway, Kolkata-700001
7. Southern Circle, 7 Seshadri Road, Gandhi Nagar, Bangalore-560009
8. South Central Circle, Opp. Rail Nilayam, Sarojini Devi Road, Secunderabad-500071
9. South Eastern Circle, 14 Strand Road, Multistoreyed Building of Eastern Railway, Kolkata-700001
10. Western Circle, 2nd Floor, Churchgate Station Building Annexe, Maharishi Karve Road, Mumbai-400020.

(E) Railway PSUs & Others:

1. The Managing Director, RITES LTD, RITES Bhawan, Plot No.1, Sect.29, Gurgaon (Haryana)-122001
2. The Managing Director, IRCON, Palika Bhawan, Sector-XIII, R.K. Puram, New Delhi -110066
3. The Chairman & Managing Director, Konkan Railway Corporation Ltd., Bhawan, Plot No.6, Sector-II CBD Belapur, Navi Mumbai-400614
4. The Managing Director, Rail Vikas Nigam Ltd., 1st floor, August Kranti Bhawan, Bhikaji Cama Place, Africa Road, R.K.Puram, New Delhi-110016
5. The Managing Director, DFCCIL, 5th Floor, Pragati Maidan, Metro Station Building Complex New Delhi-110001
6. The Managing Director, Delhi Metro Rail Corporation Ltd., Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi-110001

सलसक: Copy of A&C Slip No.51 to Bridge Rules.


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Executive Director/B&S

भारत सरकार GOVERNMENT OF INDIA
रेल मंत्रालय MINISTRY OF RAILWAY
(रेलवे बोर्ड RAILWAY BOARD)

BRIDGE RULES

(IN SI UNITS)

RULES SPECIFYING THE LOADS FOR DESIGN OF SUPER-STRUCTURE AND
SUB-STRUCTURE OF BRIDGES AND FOR ASSESSEMENT OF THE STRENGTH
OF EXISTING BRIDGES

Adopted – 1941

Revised – 1964

Reprinted in 2014

(Incorporating Correction Slips 1 to 46)

Addendum and Corrigendum Slip No. 51 dated: 03.02.2023

Sub-clauses (b), (d) & (g) of Clause No. 2.8.2.4.3 stand modified as follows:

(b) (i) It shall be ensured that the additional stresses in rail as per computations done using provisions of UIC 774-3R do not exceed the values given in table below :

Rail Section	Maximum additional Stresses in Compression	Maximum additional Stresses in Tension
60 Kg 90 UTS Rail	60 N/mm ²	75 N/mm ²
52 Kg 90 UTS Rail	50 N/mm ²	60 N/mm ²

(b) (ii) For Ballastless Track (BLT) Bridges, it shall be ensured that the additional stresses in rail as per computations done using provisions of UIC 774-3R do not exceed the values given in table below:

Rail Section	Maximum additional Stresses in Compression	Maximum additional Stresses in Tension
60 Kg 90 UTS Rail	92 N/mm ²	92 N/mm ²

Note: These values of maximum additional stresses may be validated with the help of measurements/instrumentation in the field.

(d) (i) Track resistance in Ballasted Deck Bridges: For track structure minimum 52 kg 90 UTS rails and PRC sleepers at sleeper density 1540 Nos/KM with elastic fastenings, the value of track resistance for computations as per UIC 774-3R shall be taken as 25kN per meter of track in unloaded condition and 50 kN per meter of track in loaded condition.

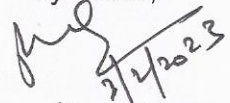
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(d) (ii) **Track resistance in Ballastless Track (BLT) Bridges:** For 60 kg 90 UTS rail track, the values of track resistance for computations as per UIC 774-3R shall be taken as 40 kN per meter of track in unloaded condition and 60 kN per meter of track in loaded condition.

Note: These values of track resistance may be validated with the help of measurements/instrumentation in the field.

(g) If rail-free fastenings are provided as per provisions of Indian Railways Permanent Way Manual (IRPWM), such that there is no interaction between the rail and the bridge, then there is no need for checking for forces/effects due to continuation of LWR/CWR.

By Order,



(राजेश कुमार श्रीवास्तव)

(Rajesh Kumar Srivastava)

कार्यकारी निदेशक /पुल एवं संरचना

Executive Director/B&S

अ.अ.मा.सं./RDSO

लखनऊ/Lucknow
