

**A.K.Ojha**  
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**Director/B&S-VII**  
निदेशक/पुल एवं संरचना-VII



भारत सरकार - रेल मंत्रालय  
अनुसंधान अभिकल्प और मानक संगठन  
लखनऊ - 226011  
Government of India-Ministry of Railways  
Research Design and Standards Organisation  
Lucknow- 226011  
Rly. : 032-42124 Phone / Fax : 0522-2465706  
Email : dbs2rdso@gmail.com

सं.: CBS/PSBC

दिनांक: 30.08.2021

**Principal Chief Engineers:**

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, Bhubaneswar - 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. Northeast Frontier Railway, Maligaon, Guwahati - 781 061
9. North Western Railway, Jaipur - 302 001
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
14. South West Railway, Hubli - 580 023
15. Western Railway, Mumbai - 400 020
16. West Central Railway, Jabalpur - 482 001
17. Metro Railway, Jawaharlal Nehru Road, Kolkata - 700 071

**विषय:** Addendum & Corrigendum Slip No. 10 to IRS Code of Practice for the Design of Sub-structures and Foundations of Bridges (Second Revision-2013): Modification of clause 6.9.2.

**संदर्भ:** Railway Board's letter No. 2021/3/CE-III/BR/17<sup>th</sup> Extraordinary BSC dated 19.08.2021

On above subject, Addendum & Corrigendum Slip No.10 to IRS Code of Practice for the Design of Sub-structures and Foundations of Bridges (Second Revision-2013) regarding modification in Clause 6.9.2, duly approved by Railway Board vide reference is enclosed for information and necessary action please.

संलग्नक: उपरोक्त |

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Ojha

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**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
  3. Principal Executive Director/Bridges, Railway Board, Rail Bhawan, New Delhi - 110001
  4. Director General, Indian Railway Institute of Civil Engg., Pune - 411 001
  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 - 400 001
2. Eastern Railway, Fairlie Place, Kolkata - 700 001
3. East Central Railway, Mahendrughat, Patna (Bihar) - 800 004
4. East Coast Railway, Bhubaneswar, (Orissa) - 751 016
5. Northern Railway, Kashmere Gate, Delhi - 110 006
6. USBRL Project, Northern Railway, Satyam Complex, Trikuta Nagar Extn., Jammu 180 020
7. North Central Railway, Allahabad, (U.P.) - 211 001
8. North Eastern Railway, Gorakhpur - 273 001
9. North Western Railway, Jaipur, (Rajasthan) - 302 001
10. Southern Railway, Egmore, Chennai – 600008
11. South Central Railway, DRM/Secunderabad Office Compound, Secunderabad -500 371
12. South Eastern Railway, Garden Reach, Kolkata – 700043
13. South East Central Railway, Bilaspur - 495 004
14. South Western Railway, No. 18 Miller Road, Bangalore, (Karnataka) – 560046
15. Western Railway, Mumbai - 400 020
16. West Central Railway, Jabalpur (M.P.) - 482 001
17. CAO-I, II & III, Northeast Frontier Railway, Maligaon, Guwahati - 781011
18. CAO/ERS, Southern Railway, Ernakulam, Kerala – 682506

**(C) Chief Bridge Engineers:**

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. Northeast Frontier Railway, Maligaon, Guwahati - 781 061
9. North Western Railway, Jaipur - 302 001
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
14. South West Railway, Hubli - 580 023
15. Western Railway, Mumbai - 400 020
16. West Central Railway, Jabalpur - 482 001
17. Metro Railway, Kolkata – 700071

**(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 - 500 071
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., Belapur Bhawan, Plot No. 6, Sector-II CBD Belapur, Navi Mumbai - 400 614
4. The Managing Director, Rail Vikas Nigam Ltd., 1st floor, August Kranti Bhawan, Bhikaji Coma Place, Africa Road, R.K. Puram, New Delhi - 110 016
5. The Managing Director, DFCCIL, 5th Floor, Pragati Maidan, Metro Station Building Complex New Delhi - 110001
6. The General Manager, Delhi Metro Rail Corporation Ltd., NBCC Place, Bishma Pitamah Marg, Pragati Vihar, New Delhi - 110003

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निदेशक/पुल एवं संरचना-VII

GOVERNMENT OF INDIA  
MINISTRY OF RAILWAYS  
(Railway Board)

**CODE OF PRACTICE FOR THE DESIGN OF SUB-STRUCTURES AND  
FOUNDATIONS OF BRIDGES  
(IRS Bridge Sub-Structures & Foundation Code)**

ADOPTED-1936  
FIRST REVISION-1985  
SECOND REVISION-2013

**ADDENDUM & CORRIGENDUM SLIP No.10 dated: 30.08.2021**

**1. Existing clause 6.9.2 to be modified to read as follows:**

**6.9.2** In calculating the foundation pressure the effect due to skin pressure (below deepest scour level) between the body of the foundation and the surrounding soil shall also be taken into accounts except in seismic zones IV & V.

However, in case of pile foundation in seismic zone IV & V, skin frictional resistance (below deepest scour level) between the body of the foundation and the surrounding soil shall be neglected only in the liquefiable layer and adjacent soil layers affected by liquefiable layers. Proper investigation for liquefaction susceptibility and precautions shall be taken in such cases as per the latest version of Seismic Code for Earthquake Resistant Design of Railway Bridges (Seismic Code), Guidelines for Seismic Design of Road Bridges (IRC : SP:114) and other relevant IRC codes.

LUCKNOW  
Dated:30.08.2021

BY ORDER

Vineet Kumar  
Srivastava

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(V.K. Srivastava)  
Executive Director/Structures  
B&S Directorate  
R.D.S.O.