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A.K. Dadarya
कार्यकारी निदेशक/पुल एवं संरचना
Executive Director/B&S

भारत सरकार - रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन
लखनऊ - 226011
Government of India-Ministry of Railways
Research Designs & Standards Organisation
Lucknow- 226011
Phone / Fax : 0522-2450398

No.CBS/ROB/ARCH

Dated: 28-06-2016

1. General Manager (Con.) N.F.Railway, Maligaon, Guwahati-781011
- 2.

Railway	Principal Chief Engineers	Chief Administrative Officers/ Con.
Central	Mumbai CST-400001	New Administrative Building, Mumbai CST- 400001
Eastern	Fairlie Place, Kolkata-700 001.	14, Strand Road, Kolkata-700001
East Central	Hazipur-844 101. (Bihar)	Mahendru Ghat, Patna-800004 (Bihar)
East Coast	Rail Vihar, Bhubaneshwar-751 016 (Odisha).	Rail Vihar, Bhubaneshwar- 751016 (Odisha)
Northern	Baroda House, New Delhi- 110 001	Kashmere Gate, Delhi- 110006
		USBRL Project, Satyam Complex, Jammu-180012.
North Central	Subedar Ganj, Allahabad-211 001.	Subedar Ganj, Allahabad- 211001
North Eastern	Gorakhpur-273 001.	Gorakhpur-273001 (U.P.)
Northeast Frontier	Maligaon, Guwahati-781 011	Maligaon, Guwahati- 781011
North Western	Jaipur-302017(Rajasthan)	Jaipur-302017(Rajasthan)
Southern	Park Town, Chennai-600 003	Egmore, Chennai-600008
South Central	Rail Nilayam, Secunderabad-500 371	Rail Nilayam, Secunderabad-500371
South Eastern	Garden Reach, Kolkata-700 043	Garden Reach, Kolkata-700 043.
South East Central	Bilaspur-495 004	Bilaspur-495004
South Western	Hubli-580023	18, Millers Road, Bangalore-560046
Western	Churchgate, Mumbai-400020	Churchgate Station Building, Mumbai-400020
West Central	Jabalpur-482001	Jabalpur-482001 (M.P.)

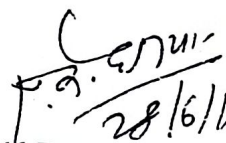
Sub: High Level Safety Review Committee's (HLSRC) recommendations.

Ref: Boards letter no 2011/CE-I/BR/HLSRC dated 16.06.2016

Vide above referred letter, RDSO was advised to furnish details on existing system of camber measurement and its suitability. In this regard it is submitted that Para 1107/15 of IRBM specifies that for span up to 30 m stretched Piano wire (Annex 11/14) may be used and for larger spans Auto Levels and Theodolite shall be used. ✓

RDSO-7

There are several advance and high precision survey instruments available which can reliably measure the camber of any type of Bridge. RDSO has issued a letter regarding type of instruments to be used for camber measurement vide letter no RB/1851 dated 21-06-2016. It is important to note that today's advance survey instruments such as Total Stations with Reflector less working range of up to 500 m facilitate accurate laser based measurement of Girder levels by directly hitting on the surface of the Girders. The reflector less working range of a laser based Total station is further enhanced with the help of reflector strips. Reflector Target Strips with Cross hairs (2 inch x 2 inch approx. size) may be permanently attached on the Girder Target Points (such as center line of Bottom Chord) so that every time laser beam is targeting the same point. The location of target points will vary based upon the type of structure, Instruments used and accessibility to place measuring staff or Reflector Prism etc.


28/6/16
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