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भारत सरकार –रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन
लखनऊ – 226011

Government of India - Ministry of
Railways Research Designs & Standards
Organization Lucknow – 226011

No. MW/SPD/BG/BCN/22.32(IR)

Dated :01.04.2009

The General Manager (Engg.)

1. Northern Railway, Baroda House, New Delhi – 110 001.
2. Central Railway, Chhatrapati Shivaji Terminus, Mumbai – 400 001.
3. Eastern Railway, Fairlie place, Kolkata – 700 001.
4. Western Railway, Churchgate, Mumbai – 400 020.
5. Southern Railway, Park Town, Chennai – 600 003.
6. South Central Railway, Rail Nilayam, Secunderabad – 500 071.
7. South Eastern Railway, Garden Reach, Kolkata – 700 043.
8. North Eastern Railway, Gorakhpur – 273 001.
9. North East Frontier Railway, Maligaon, Guwahati – 781 011.
10. East Central Railway, Hajipur – 844 101.
11. North Central Railway, Allahabad – 211 001
12. North Western Railway, Jaipur – 302 006.
13. South Western Railway, Hubli – 580 023.
14. East Coast Railway, Railway Complex, Bhubaneswar – 751 023.
15. West Central Railway, Jabalpur – 482 001.
16. South East Central Railway, Bilaspur – 495 004.

**Sub: Amendment No.1 to Final Speed Certificate No. MW/SPD/BG/BCN/22.32t(IR)
Dated: 22-11-2007 for maximum permissible Speed of 22.32t (CC+6t+2t)
axle load Broad Gauge Bogie Covered Wagon type BCN.**

Ref: RDSO speed certificate no. MW/SPD/BG/BCN/22.32t (IR) Dated: 22-11-2007.

Replace existing Para 2.0, 2.1, 2.2 for Track and 2.3.8 under Bridges of the Speed Certificate No. MW/SPD/BG/BCN/22.32t (IR) Dated: 22-11-2007 by the following Para:

- “ 2.0 On the basis of the above, it is certified that BCN wagon with axle load of 22.32t (CC+6t+2t), may be permitted to run up to a maximum speed of 75 kmph in loaded condition and 80 kmph in empty condition, subject to the following conditions: -“
- “ 2.1 As per Railway Board's letter No. 2007/CE-II/TS/1 dated 23-07-2007 followed by letter of even no. dated 13-02-2009, operation of BCN wagon with axle load of 22.32 t (CC+6t+2t) is permitted on all over IR except following sections where it will be restricted:

Rly.	Sections
CR	Parasia-Chindwara Branch line
ER	Nalhati-Azimganj, Mandarhill-Bhagalpur Munger-Jamalpur, Bandel-Titagarh
ECR	Kiul-Patna, Kiul-Gaya, Kiul-Simariya-Garhara-Barauni Samastipur-Darbhanga, Saugali-Raxaul
NR	Firozpur city-Fazilka, Faizabad-Prayag-Allahabad, Jalandhar city- Nakodar,Zafarabad-Janghai, Amritsar-Khemkaran, Verka-Dera Baba Nanak
NCR	Shikohabad-Farrukhabad, Ait-Komach Yamuna Bridge-Agra City-Raja Ki Mandi
NER	Allahabad-Varanasi
NWR	Suratgarh-Anoopgarh, Merta-Merta Road
SCR	PGDP-NDKD, ADB-PIMP. JKM-BDHN, PDPL-KRMR-JGTL
SER	Baltikuri-Amta, Rupsa-Baripada, Tamluk-Digha, Tata-Badapahar
SWR	Bagalkot-Hotgi, Londa-Miraz, Birur-Shimoga
WCR	Guna-Gwalior

However in case of emergencies such as accidents etc, running of CC+6t+2t loaded wagons, in the restricted sections indicated as above, can be permitted. This however shall be done at the level of PCE, who will advice suitable speed restrictions keeping in view the condition of fixed infrastructure.

This speed certificate will also be applicable for other such routes which may be permitted by Railway Board in future.”

“2.2 Track

- 2.2.1 The track shall be to a minimum standard of 52Kg rail (90UTS) on sleeper with M+7 density and minimum depth of ballast cushion below sleeper of 250mm, which may consist of at least 100mm clean and the rest in caked up condition on compact and stable formation.-Maximum permissible Speed up to 75Kmph for loaded condition and 80Kmph in empty condition.
- 2.2.2 The track shall be to a minimum standard of 52Kg rail (72UTS) on sleeper with M+7 density and minimum depth of ballast cushion below sleeper of 250mm, which may consist of at least 100mm clean and the rest in caked up condition on compact and stable formation.-Maximum permissible Speed up to 60Kmph for loaded condition and 80Kmph in empty condition.
- 2.2.3 The track shall be to a minimum standard of 90R rail on sleeper with M+4 density and minimum depth of ballast cushion below sleeper of 200mm, which may consist of at least 75mm clean and the rest in caked up condition on compact and stable formation.-Maximum permissible Speed up to 30Kmph in loaded condition and 80Kmph in empty condition.
- 2.2.4 Wherever condition warrant on account of corrosion on rail/weld collar, wear of rail, cupping in the welds necessary precautions should be taken for fish plating/ joggle fish plating of the rail/weld.

- 2.2.5 Zonal Railways may impose such further restrictions of speed as deemed fit, based on the age and condition of track and the extent of rail fractures/weld failures/defect generation rate occurring in the sections.
- 2.2.6 The maximum permissible speed on curves to be decided on the basis of the existing provision of Indian Railway Permanent Way Manual Second Reprint-2004.
- 2.2.7 For track maintained to lower standard than that mentioned above, the Chief Engineer shall decide the lower maximum permissible speed on the basis of maintenance condition. In this connection, Railway Board's letter No. 65/WDO/SR/26 dated 19/20-10-1966 may be seen. When the Chief Engineer considers that the roadbed is not compacted or there is improper drainage, he may suitably restrict the maximum permissible speed depending upon the local conditions."
- "2.3.8 The directives of RDSO for operation of CC+6+2t, axle load 22.32t communicated vide RDSO Letter No. CBS/Golden/Q/Strength dated 20.03.07 shall also be followed."

(D. K. Singh)
Executive Director Standards (Motive Power)

Copy for information to:

- (1) The Secretary (Mech./Engg.), Railway Board, Rail Bhavan, New Delhi – 110 001.
- (2) The General Manager (Mech./Optg.):
- (i) Northern Railway, Baroda House, New Delhi – 110 001.
 - (ii) Central Railway, Chhatrapati Shivaji Terminus, Mumbai – 400 001.
 - (iii) Eastern Railway, Fairlie place, Kolkata – 700 001.
 - (iv) Western Railway, Churchgate, Mumbai – 400 020.
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 - (vi) South Central Railway, Rail Nilayam, Secunderabad – 500 071.
 - (vii) South Eastern Railway, Garden Reach, Kolkata – 700 043.
 - (viii) North Eastern Railway, Gorakhpur – 273 001.
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 - (x) East Central Railway, Hajipur – 844 101.
 - (xi) North Central Railway, Allahabad – 211 001
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