

SN-19

NORTH CENTRAL RAILWAY

Head quarters' office,
Engineering Department,
Allahabad.

N0 355-W/CRS/Prayagraj Exp/Trials/NCR/TM,

Dated: 28.12.2006.

CME, CEE, COM, CSTE

DRM/ALD.

Sub:- CRS sanction for conducting coupler force and emergency braking distance trials of 26 nos. BG ICF/RCF air braked coaches fitted with Centre Buffer Couplers on Ghaziabad – Allahabad section (both UP & DN line) of North Central Railway at a maximum speed of 110 kmph.

Ref:- CRS N.E. Circle's sanction letter no. 3499/BG/ICF/NCR/SANC/67, dated 19.12.2006 (copy enclosed).

In reference to above, **CRS/NE Circle vide reference above has accorded sanction for conducting coupler force and emergency braking distance trials of 26 nos. BG ICF/RCF air braked coaches fitted with Center Buffer Couplers on Ghaziabad – Allahabad section (both UP & DN line) of North Central Railway at a maximum speed of 110 kmph.**

This is for your information and further action please.


DA-As above


(A.B.Khare)

**Deputy Chief Engineer/TM
For General Manager (Engg.)**

Copy to: (i) **Executive Director (Testing), RDSO, Manak Nagar, Lucknow-226 011** for information and Trials. You are requested to **send the TRIAL REPORT to CRS/NE Circle for study and record** and to this office also.

(ii) **Secy. to PCE** for kind information to **PCE.**


88/7M
28/12/06

26/12

E. copy

SN-18

प्रीतिग्राम - 'कामरेल्स' लखनऊ
फैक्स नं० 0522-2234538
Telegram : 'COMRAILS' Lucknow
Fax No. : 0522-2234538

भारत सरकार
नागर विमानन मंत्रालय
रेल संरक्षा आयोग, पूर्वोत्तर परिमण्डल
GOVERNMENT OF INDIA
MINISTRY OF CIVIL AVIATION
COMMISSION OF RAILWAY SAFETY, NORTH EASTERN CIRCLE

दूरभाष : 2234515 (P.& T.)
Telephone : 23-291 (N. Rly.)
31-571 (N.E. Rly.)



सत्यमेव जयते



हजरतगंज, लखनऊ-226 001
Hazratganj, Lucknow-226 001

No.3499/B.G./I.C.F./N.C.R./SANC/67

दिनांक : 19.12.2006.

The Chief Track Engineer,
North Central Railway,
Allahabad.


Sub : Conducting coupler force and emergency braking distance trials of 26 nos BG ICF/RCF air braked coaches fitted with Centre Buffer Couplers on Ghaziabad-Allahabad section (both UP & DN line) of North Central Railway at a maximum speed of 110 kmp.

Ref : Your application No.355-W/CRS/Prayagraj Exp/trial/NCR/TM dated 22/24.11.2006.

Sanction is hereby accorded for conducting detailed coupler force and emergency braking distance trials at a maximum speed of 110 kmph on Ghaziabad-Allahabad section (both UP and DN line) from km 1428.50 to km 825.54 of North Central Railway on 26 nos BG/ICF/RCF air braked coaches fitted with CBCS specified in the Railways Joint Safety Certificate No.01/BG/NCR/2006 and RDSO's speed Certificate No.MC/BG/Coach-26 dated 21.04.2006.

- 2.0 The above sanction is also subject to observance of the following stipulations conditions.
 - 2.1 All temporary and permanent speed restrictions in force or those that may be imposed from time to time due to track, bridges, OHE, signalling & interlocking etc.
 - 2.2 All conditions additional stipulations given in the Railways Joint Safety Certificate, RDSO's speed certificate and concomitant Track & Bridge Certificate.
 - 2.3 The different type of locomotive and coaches which shall form part of the test train have the sanction of CRS for speed of 110 kmph.
 - 2.4 A copy of the trial report shall be submitted to this office on completion of the trial, for study and record.

2.5 Railway Board had condoned the infringements of the different types of locomotive and coaches which shall form part of the test train as per Revised Schedule of Dimension s, 2004.


19.12.2006
(R.K Kardam)

Commissioner of Railway Safety,
North Eastern Circle, Lucknow.

No.3499/BG/ICF/NCR/SANC/

Dated : 19.12.2006.

Copy for information to :-

Chief Commissioner of Railway Safety, Ashok Marg, Lucknow.

All Commissioner's of Railway Safety.

(R.K Kardam)

Commissioner of Railway Safety,
North Eastern Circle, Lucknow.

SM-14


**NORTH CENTRAL RAILWAY
JOINT SAFETY CERTIFICATE
(No. 01/BG/NCR/2006)**


Based on the RDSO Speed Certificate No. MC/BG/Coach-26, dated 21.04.2006, it is certified that it is safe for conducting coupler force and emergency braking trials of 26 nos. BG ICF/RCF Coaches fitted with Centre Buffer Couplers at a maximum speed of 110 kmph on Ghaziabad – Allahabad section on both UP & DN line of North Central Railway in composition of single WAP4/WAP5/WAP7 and 26 nos. BG ICF/RCF air braked coaches fitted with CBCs, subject to observance of all permanent and temporary speed restrictions on the sections already in force and those that may be imposed from time to time due to track, bridges, curves, signaling and interlocking etc.


Section	Line	Km		Maximum proposed speed (kmph)	Maximum sectional speed (kmph)
		From	To		
(GZB - ALD)	UP & DN	1428.50	825.54	110	130

It is certified that all the conditions as stipulated in the RDSO's speed Certificate No. MC/BG/Coach-26, dated 21.04.2006, are fulfilled, except the trials Conditions, which will be fulfilled before starting the trial / during the trial as applicable.


8/11/06
(M.IRSHAD)
CME


(R.N. VERMA)
PCE


10/11/06
(C.P.VERMA)
CSTE


17/11/06
(RAJ KUMAR)
CEE


(K.K.SAXENA)
COM

RAILMANAK
 01-0522-2450679
 91-0522-2450679
 रेलमानक, लखनऊ
 'RAILMANAK',
 Lucknow
 टेलीफोन/ Tele : 2451200 (PBX)
 2450115 (DID)



भारत सरकार - रेल मंत्रालय
 अनुसंधान अभिकल्प और मानक संगठन
 लखनऊ - 226 011
 Government of India - Ministry of Railways
 Research Designs & Standards Organisation
 Lucknow - 226 011

SN-13

भिसिल सः एमसी/बीजी/कोच-26

दिनांक: 26.09.2006

मुख्य रेलपथ अभियंता,
 उत्तर मध्य रेलवे,
 इलाहाबाद

Sub: Running of Prayagraj Express with 26 coaches.
 Ref: Your letter no. 355-W/CRS/Augmentation(Prayagraj Express)/
 NCR/TM dated 20.01.2006.

In response to the above referred letter, RDSO had issued the speed certificate no. MC/BG/Coach-26 dated 21.4.2006, for conducting coupler force and emergency braking trials of 26 number BG coaches fitted with CBCs. The copies of these certificates were sent to GM (Engg.), GM (Mech.), GM (Elect.) and GM (Optg.), NC Railway. It was requested that the necessary CRS' clearance for conducting these trials be obtained and communicated to ED/Testing, RDSO, Lucknow for further action.

More than 5 months have elapsed since the issue of the above speed certificate. However, no communication has been received from NCR till date. Railway Board meanwhile is pressing hard for necessary clearance for introduction of 26 coach trains. It is requested that early action is taken for obtaining the CRS' sanction and communicating the same to RDSO for conducting the required trials.

पुदीप अग्रवाल
 (पी.के.अग्रवाल)
 कृते महानिदेशक/सवारी डिब्बा

प्रतिलिपि :

1. मुख्य यांत्रिक अभियंता, उत्तर मध्य रेलवे, इलाहाबाद । सूचनाथं
2. कार्यकारी निदेशक, परीक्षण, अ.अ.मा.सं., लखनऊ, ।

पुदीप अग्रवाल
 (पी.के.अग्रवाल)
 कृते महानिदेशक/सवारी डिब्बा

Dyce/PM

26/9/06

SR/PM

Pravin Kumar JSC

27/09/06

NORTH CENTRAL RAILWAY

Infringement of maximum and minimum dimensions for : **Conducting coupler force and emergency breaking trials of 26 Nos. B.G. ICF/RCF coaches fitted with central buffer couplers at a maximum speed of 110 kmph. section(Both UP & Dn line) of North Central Railway**

SN	Location		Name of structure which infringe	Prescribed max. and min. dimensions of 1929 (Reprint 1973) Prescribed max & Min dimensions of revised -2004 Chapter/ item	Max./Min.	Existing actual dimensions as per RDSO's Sketch No. CSC-1704	Amount of Infringement	Particular of sanction & remarks.
	Division & Section	Kilometer						
1	GZB-ALD (Both UP & Dn line) ALD Div.			<p>Chapt.IV-A Item No.31 Maximum height above rail level for a width of 305 mm on either side of the centre of unloaded vehicle.</p> <p>Chapt.IV-A Item No.29 Maximum height above rail level for a width of 760 mm on either side of the centre of unloaded vehicle.</p> <p>Chapt.IV-A Item No.32(b) Maximum height above rail level at sides of unloaded vehicles Bogie vehicles 3250mm wide.</p> <p>Chapt.IV-A Item No.30 Maximum height above rail level at sides of unloaded vehicles</p>	4115 mm. 4265 mm. 3505 mm. 3735 mm.	4250 mm 4250 mm 3735 mm 3735 mm	135 mm NIL 230 mm NIL	<p>1.Speed certificate issued by Executive Director Standards (Motive Power) RDSO/LKO vide certificate No.MC/BG/Coach -26 dated 21.04.2006.</p> <p>2. Infringements condoned by Rly. Board vide letter No.93/CEDO/SR/12 dated 25.10.93.</p> <p>3. Infringements of WAP-4, WAP-5 & WAP-7 locomotives condoned by Rly. Board vide letter No.96/ CEDO/SR/ 10 Dt.10.05.96., 95/CEDO/SR/18 Dt. 14.07.95., 2000/ CEDO/SR/2 Dt.17.02.2000 respectively.</p>

24/11/19
DY CE/TP
NCR/ALD

[Signature]
DY CME/C&W
NCR/ALD

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DY CE/P&D
NCR/ALD

24/11/19
2008/12
24/11/19

Headquarters' office,
Allahabad.
Date: ~~03.07.2006~~ 03.07.2006

NORTH CENTRAL RAILWAY

BRIDGE ENGINEER'S CERTIFICATE

Based on RDSO's speed certificate No. MC/BG/Coach-26, dated 21.04.2006, certified that the bridges on the sections given below are having minimum strength of super structure as indicated against the sections as per revised Bridge Rules -1964 incorporating correction slips 1 to 33 and are safe for conducting coupler force and emergency braking distance trials of 26 nos. BG ICF/RCF coaches fitted with Centre Buffer Couplers, up to the maximum speed indicated against the sections or maximum sectional speed whichever is less, subject to all the temporary & permanent speed restrictions already in force and those that may be imposed from time to time.

S. No.	Section		Line	KM		Strength %	Max. Speed
	From	To		From	To		
1.	Ghaziabad	Allahabad	UP/DN	1428.50	825.54	100% RBG	110Kmph

Sub structure of all the bridges on the sections given above are in satisfactory condition and are safe for conducting coupler force and emergency braking distance trials of 26 nos. BG ICF/RCF coaches fitted with Centre Buffer Couplers, up to the proposed speeds confirming to the provisions of revised IRS Bridge Sub structure and Foundation code.

This clearance is subject to the following -

S. No.	Parameters	WAP4	WAP5	WAP7	ICF/RCF AC and non-AC coaches
1.	Max. Axle load	19.0 + 2% t	19.5 + 2% t	20.5 + 2% t	16.25 t
2.	Max. tractive effort	30.8 t	26.3 t	32.9 t	-----
3.	Max. braking force at rail level	22.3 t	16.3 t	18.6 t	-----
4.	Max. CG height from rail level	-----	-----	-----	Not exceeding 1830mm

(Signature)
(Manoj Banerjee)
Dy. CE/Bridge/HQ

Countersigned

(Signature)
N.K. Duggal
Chief Bridge Engineer

No.355-W/CRS/NCR/TP/P/III dt. 22.5.06

**NORTH CENTRAL RAILWAY
TRACK CERTIFICATE**

Certified that track on UP & DN lines of the following section of North Central Railway are maintained to the standard as recommended in RDSO's report no. C&M-1 (Vol.I) and the weakest portion of which as per details given under is to the required strength for "Conducting coupler force and emergency braking trials of 26 nos. BG ICF/RCF coaches fitted with Centre Buffer Couplers" at a maximum speed indicated against each section, subject to observance of all temporary and permanent speed restrictions in force and or imposed from time to time on various accounts. All conditions stipulated in RDSO's speed certificate no.MC/BG/Coach-26 date 21.4.2006 for track are fulfilled.

Table

Line	Section		Kms		Rails			Sleepers		Ballast cushion (in mm)	Max. speed proposed	Max. sectional speed existing in the section (km/h)
	From	To	From	To	Type	% of wear or year of laying	Type	Year of laying	Density			
UP	ALD	GZB	825.54	1428.50	52kg, 90UTS	1989	PSC-5	1977	M+7	300/100	110	130
DN	GZB	ALD	1428.50	825.54	52kg, 72UTS	1982	PSC-5	1982	M+7	300/100	110	130

Countersigned,

[Signature]
22/05/06
Chief Track Engineer

[Signature]
Dy. Chief Engineer/TP