

Telex : 0535 - 2424 RDSO -IN
Fax : 91 - 0522 - 2452581
Telephone : 2465713
Telegram : RAILMANAK', Lucknow
e-mail : dell1@rdso.railnet.gov.in



भारत सरकार – रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन
लखनऊ – 226011
Government of India - Ministry of
Railways
**Research, Designs & Standards
Organization, LUCKNOW - 226011**

EL/3.1.39/1

Date: 20.03.2009

Chief Electrical Engineer

- 1- Central Railway, Mumbai CST - 400001
- 2- Northern Railway, Baroda House, New Delhi - 110001
- 3- Eastern Railway, Fairlie Palace, Kolkata- 700001
- 4- Southern Railway, Park , Chennai -600003
- 5- South Central Railway, Rail Nilayam, Secunderabad -500071
- 6- Western Railway, Church Gate, Mumbai - 400020
- 7- South Eastern Railway, Garden Reach, Kolkata - 700043
- 8- East Central Railway, Hazipur, Bihar - 844101
- 9- West Central Railway, Jabalpur - 482001
- 10- South East Central Railway, Bilaspur- 495004
- 11- East Coast Railway, Bhubneshwar- 751016
- 12- North Central Railway, Subedarganj, Allahabad- 211033

Technical Circular No: RDSO/2009/EL/TC/0099 (Rev '0')

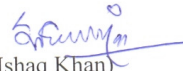
Sub: Haulage capacity of WAG7 Freight AC locomotive in run through conditions on different gradients.

Lengths of negotiable stretches of rising gradients in run through conditions for various loads and locos at different attacking speeds were advised to Railways from time to time through Technical circulars TC-22, TC-23, TC-24, TC-26, TC-86, TC-87, TC-88, TC-89, TC-95 and TC-97.

However, Railways also desired lengths of negotiable stretches of 1/125, 1/80 and 1/62 rising gradients also for various train load and locos at different attacking speeds. Computer simulations have been done at RDSO for following combinations to arrive at the lengths of stretches which can be negotiated in run through conditions at various attacking speeds. Simulation results are given in table No. 1 to 41 at Annexure-I for Single WAG7 Loco.


Loads	Grade		
	1 : 125	1 : 80	1 : 62
40BCN, 3300T	Loco can start & haul	Table - 14	Table - 28
40BCN (CC+6), 3491T	Table - 1	Table - 15	Table - 29
40BCN (CC+6+2), 3571T	Table - 2	Table - 16	Table - 30
41BCN + 1BV (CC+6), 3593T	Table - 3	Table - 17	Table - 31
41BCN + 1BV (CC+6+2), 3675T	Table - 4	Table - 18	Table - 32
41BCN + 1BV (CC+10), 3757T	Table - 5	Table - 19	Table - 33
48BTPN (CC), 4000T	Table - 6	Table - 20	Table - 34
58BOXN (CC), 4714T	Table - 7	Table - 21	Table - 35
58BOXN (CC+6), 5062T	Table - 8	Table - 22	Table - 36
58BOXN (CC+6+2), 5178T	Table - 9	Table - 23	Table - 37
58BOXN (CC+10), 5294T	Table - 10	Table - 24	Table - 38
59BOXN+1BV (CC+6), 5164T	Table - 11	Table - 25	Table - 39
59BOXN+1BV (CC+6+2), 5282T	Table - 12	Table - 26	Table - 40
58BOXN+1BV (CC+10), 5400T	Table - 13	Table - 27	Table - 41

Railways are requested to conduct field trials on the above guidelines in different sections. Based on such trials, you may issue guidelines to Loco pilots to enable them to negotiate such stretches successfully without causing stalling and overloading of electrical equipments. RDSO may be kept apprised of the developments


(Ishaq Khan)
For Director General/Elec.

Encl: Annexure – I

Distribution: As per standard mailing list no. EL/M/0019 Amendment-3.


(Ishaq Khan)
For Director General/Elec.

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