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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



TECHNICAL CIRCULAR NO. 25

No. EI/3.1.39 / 1

Dated 24. 6. 1998

CHIEF ELECTRICAL ENGINEER,

- Central Railway, Mumbai CST-400 001
 - Eastern Railway, Fairlie Place, Calcutta-700 001
 - Northern Railway, Baroda House, New Delhi-110 001
 - Southern Railway, Park Town, Chennai-600 003
 - South-Eastern Railway, Garden Reach, Calcutta-43
 - South-Central Railway, Rail Nilayam, Secund-rabad-71
 - Western Railway, Churchgate, Mumbai-400 020
 - Chittaranjan Locomotive Works, Chittaranjan-713 331
- Director, IRIEEN, Post Box No.233, Nasik Road, Nasik – 422 101

Sub : HAULAGE CAPABILITIES OF PRESENT HIGH SPEED LOCOMOTIVES

Computer simulation have been done and the speed attained within 1000 secs. on level section with the present high speed locomotive is as under:-

No. of Coaches and Type	WAP1/WAP3 *	WAP4	WAP5
EOG 19 or Conventional 17	130 Kmph in 1000 secs	140 Kmph in 884 secs.	160 Kmph in 812 secs.
EOG21 or Conventional 19	125 Kmph in 788 secs.	137 kmph in 904 secs. (140 Kmph in 1261 secs.)	155 kmph in 917 secs. (160 kmph in 1283 secs.)
EOG24 or Conventional 22	123 kmph in 1000 secs.	133 kmph in 959 secs.	145 kmph in 822 secs.
EOG26 or Conventional 24	119 kmph in 1000secs.	130 Kmph in 911 secs.	140 kmph in 819 secs.
Conventional 26 or EOG 28	115 kmph in 954 secs.	128 Kmph in 948 secs.(130 Kmph in 1262 secs.)	139 Kmph in 979 secs. (140 Kmph in 1038 secs.)

Note: 4 A.C. coaches have been considered in conventional coaches formation.

*WAP3 loco can haul 8 EOG coaches at 160 Kmph.

Ramesh Chandra

Encl: Nil.

(Ramesh Chandra)
for Director General/Electrical

Copy to:

1. Secretary (Electric Traction) Railway Board, Rail Bhawan, New Delhi-110001
2. Sr. Divl. Electrical Engineer (Operation)
 - Central Railway, DRM office , Mumbai CST-400001
 - Central Railway, DRM office. Bhusawal(Maharashtra)
 - Central Railway, DRM office, Bhopal,(M.P.)
 - Central Railway, DRM office, Jabalpur,(M.P.)
 - Central Railway, DRM office, Jhansi,(U.P.)

 - Eastern Railway, DRM office, Howrah
 - Eastern Railway, DRM office, Dhanbad
 - Eastern Railway, DRM office, Asansol
 - Eastern Railway, DRM office, Mughalsarai

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 - South Eastern Railway, DRM office, Bilaspur
 - South Eastern Railway, DRM office, Nagpur

 - Western Railway, DRM office, Vadodara
 - Western Railway, DRM office, Kota.
 - Western Railway, DRM office, Ratlam
 - Western Railway, DRM office, Mumbai Central.

Ramesh Chandra

(Ramesh Chandra)
for Director General/Elect.

Encl : Nil