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

No. MC/LHB/Coach

DI. 17.09.2007

The General Manager (Engg.):

1. Northern Railway, Baroda House, New Delhi - 110 001
2. North Central Railway, Allahabad - 211 001

Sub: **AMENDMENT No. 01** to final speed Certificate for operation of Shatabdi Express and other similar trains with WAP5 class of locomotive and comprising maximum 21 numbers of LHB AC EOG coaches on New Delhi – Agra Cantt section upto a maximum speed of 150 kmph.

Ref: RDSO speed certificate of even no. dated 16.07.07.

RDSO vide reference above, issued speed certificate for operation of Shatabdi Express and other similar trains with WAP5 class of locomotive and comprising maximum 21 numbers of LHB AC EOG coaches on New Delhi – Agra Cantt section upto a maximum speed of 150 kmph. As a result of partial amendment in clause 2.2.2 of above refer speed certificate shall now read as under :-

Para 2.2 Bridges

The existing sub-para 2.2.2 under Bridges shall be read as under

- 2.2.2 Superstructures and bearings of non-standard spans including arches and sub-structures of all bridges are to be examined under the direction of Chief Bridge Engineer concerned and certified safe by him in terms of Indian IRS Bridge Rules, Steel Bridge Code, Concrete Bridge Code, Arch Bridge Code, Bridge Sub-structures and Foundations Code etc. read with up to date correction slips.

DA: Nil.

( S.Mani )

Executive Director Standards (Motive Power)

Copy to:

1.The General Manager (Mech., Elec. & Optg.)

- i) Northern Railway, Baroda House, New Delhi - 110 001
- ii) North Central Railway, Allahabad - 211 001

2.The Secretary (Mech., Elec. & Engg. /G)  
Railway Board, Rail Bhawan,  
New Delhi - 110 001

( S.Mani )

Executive Director Standards (Motive Power)

DA: Nil.

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No. MC/LHB/Coach

Dated: 03.12.2009

The General Manager (Engg.)

1. Northern Railway, Baroda House, New Delhi – 110001
2. North Central Railway, Allahabad- 211001

Sub: **AMENDMENT NO. 02** to final speed certificate for operation of Shatabdi Express and other similar trains with WAP5 class locomotive and comprising maximum 21 numbers of LHB AC EOG coaches on New Delhi-Agra Cantt section upto a maximum speed of 150 kmph.

Ref: RDSO's speed certificate of even no. dated 16.07.2007.

Vide reference above, speed certificate was issued for operation of Shatabdi Express and other similar trains with WAP5 class locomotive and comprising maximum 21 numbers of LHB AC EOG coaches on New Delhi-Agra Cantt section upto a max speed of 150 kmph. As a result of partial amendment, an additional clause "2.1.10" shall be added in above referred speed certificate as under: -

**Para 2.1. Track**

The additional sub-para "2.1.10" under "Track" shall be included as under:

- "2.1.10" (i) Existing loose heel switches are to be replaced with fixed heel curved switches laid on PSC sleeper layout with CMS crossing and adequate arrangements should be made to ensure designed geometry of turnouts. Turnouts with TWS shall be preferred on such routes.
- (ii) Preference may/should be given to Improved SEJ's on such routes.
  - (iii) Improvement of track geometry parameters on the route of operation of the coaches/trains to be carried out.
  - (iv) The curves will have to be suitably realigned and proper transition length to be provided.
  - (v) Action should to be taken for relocation /modification of Engineering signals in consultation with respective S&T and OHE department of Zonal railways.
  - (vi) Concerned Railway will arrange for providing fencing throughout to prevent unauthorized pedestrian/cattle crossings.
  - (vii) COCR above 120 kmph shall be conducted as per Policy Circular no. 6.
  - (viii) All level crossings shall be manned. The gates shall be provided with frills.

DA: Nil.

(S.Mani)

Executive Director Standards (Motive Power)

Copy to:

1. Secretary (Mech., Elec. & Engg./G), Railway Board, Rail Bhawan, New Delhi.
2. The General Manager (Elect., Optg., Mech.)

- a. Northern Railway, Baroda House, New Delhi – 110001
- b. North Central Railway, Allahabad- 211001

DA: Nil.

(S.Mani)

Executive Director Standards (Motive Power)