

**GOVERNMENT OF INDIA  
MINISTRY OF RAILWAYS  
(RAILWAY BOARD)**

2017/Proj./DMRC/SG/RS/29/6

New Delhi, dated 20.03.2017

**Managing Director,**  
Delhi Metro Rail Corporation Ltd.,  
Fire Brigade Lane,  
Barakhamba Road,  
New Delhi-110 001

**Sub: Sanction of introduction of operation of Standard Gauge DMRC 'RS-10' Metro Coaches (maximum axle load 17.0t) manufactured by M/s. Hyundai-Rotem Company with air suspension arrangement at secondary stage to M/s. Hyundai-Rotem Company's Drawing No. RGA10002CX0 Rev. E for Driving Motor (DMC), RGA10003CX0 Rev. E for Trailer (TC) and RGA10004CX0 Rev. E for Motor (MC), Coaches over Standard Gauge (SG) system of Delhi Metro Rail Corporation Limited (DMRC), Delhi.**

Ref: Ministry of Civil Aviation's letter No. Q.15011/01/2016-17 T.W. dated 09.03.2017

In reference to the letter cited above, provisional sanction of the Ministry of Railways, Railway Board is hereby communicated for operation of Standard Gauge DMRC 'RS-10' Metro Coaches (maximum axle load 17.0t) manufactured by M/s. Hyundai-Rotem Company with air suspension arrangement at secondary stage to M/s. Hyundai-Rotem Company's Drawing No. RGA10002CX0 Rev. E for Driving Motor (DMC), RGA10003CX0 Rev. E for Trailer (TC) and RGA10004CX0 Rev. E for Motor (MC), Coaches over Standard Gauge (SG) system of Delhi Metro Rail **up to maximum speed of 85 (EIGHTY FIVE) kmph in fully inflated mode, and 70 (SEVENTY) kmph in deflated mode of air spring.**

The sanction is further subject to the following conditions/stipulations:

- (i) It shall be ensured by the DMRC to get all their Manuals and Instructions related to Maintenance of Rolling Stock approved by RDSO (Ministry of Railways) and also to develop a mechanism to get their various maintenance practices audited periodically by RDSO. Hard copy of Maintenance Manual, after being approved by RDSO, should be sent to the Commission of Railway Safety.
- (ii) Signalling System as approved by Railway Board, along with its interface with RS-10 Rolling Stock shall be verified and certified by ISA as well as the Executing Authorities and their clarifications shall be submitted to the Commission of Railway Safety with the Opening Documents.
- (iii) As per clause 8.3 of the Interim Speed Certificate No. UTHS/66/DMRC/Mech. dated 10.02.2017 issued by RDSO, for issue of final speed certificate, repeat oscillation trials with worn out wheels and rails will be conducted. Copy of the report of repeat oscillation trials with worn out wheel and rails will be made available to the Commission of Railway Safety.
- (iv) Observance of all permanent and temporary speed restrictions already in force and/ or those that may be imposed from time to time on various accounts.

Contd.. 2/-



- (v) Observance of all conditions laid down in RDSO's Interim Speed Certificate No. UTHS/66/DMRC/Mech. dated 10.02.2017 and DMRC Joint Certificate No. SG-8/2017 and concomitant Track and Bridge Certificates.
- (vi) In the event of secondary suspension air spring getting deflected, the train speed should be restricted to 70 kmph and the train brought to depot for attention.

  
(Ruth Changsan)  
Director/Works Planning  
Railway Board  
☎011-23097061

2017/Proj./DMRC/SG/RS/29/6

New Delhi, dated 20.03.2017

Copy forward for information to:

1. **The Chief Commissioner of Railway Safety**, N.E Railway, DRM office Campus 16, Ashok Marg, Lucknow -226001 w.r.t his endorsement No. No. Q.15011/01/2016-17 T.W. dated 09.03.2017
2. **Commissioner of Railway Safety**, Northern Circle, CRIS Complex, Chanakyapuri, New Delhi -110021 w.r.t his endorsement No. 2016/Q-13(12)DMRC/NC/995-997 dated 18.02.2017
3. **Director General**, RDSO, Manak Nagar, Lucknow.