

भारत सरकार **GOVERNMENT OF INDIA**
रेल मंत्रालय **MINISTRY OF RAILWAYS**
(रेलवे बोर्ड **RAILWAY BOARD**)

No.2016/M(C)/137/2

New Delhi, dated 14.07.16

**The Chief Mechanical Engineer,
All Indian Railways.**

Sub: Conversion of GS coaches into Deen Dayalu coaches during MLR.

Ref: Board's letters (02) of even no. dtd 17.06.16. (copy of both letters enclosed).

Vide letters ref above, broad design features to be provided in Deen Dayalu coaches were finalized and advised to Production Units.

It has further been decided that identified GS coaches undergoing MLR/being received for MLR in workshops should be provided with design features of Deen Dayalu coaches as contained in letters ref above.

In this regard, CR,NCR & WCR are advised to plan and advise cut-in date of MLR of GS coaches for their conversion to Deen Dayalu coaches during MLR in Coach Mid Life Rehabilitation workshops.

Zonal Railways are further advised to identify and despatch more and more GS coaches to these workshops for their conversion to Deen Dayalu coaches during MLR.

This has the approval of Board (MM).


(Prashant Kumar)
Dir.Mech.Engg.(Chg.)
Railway Board

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No.2016/M(C)/137/2

New Delhi, dated: 17.06.2016

The General Managers
RCF/Kapurthala
ICF/Chennai
MCF/Raebareli
Director General/RDSO

Addendum

Sub: Design features on coaches announced in Budget 2016-17

Ref: Board's letter of even dated 17.06.2016

Vide reference above essential feature to be provided in budget announced train were advised. For DeenDayalu coaches, following approved feature was inadvertently left out in the list owing to typographical error:

"Potable Water similar to Aquaguard type water filtration system."

Accordingly, above feature should also be provided in DeenDayalu coaches.


(Prashant Kumar)

Director Mech Engg (Coaching)
Railway Board

- Copy to:**
1. ED/Carriage/RDSO and ED/ PSU&EMU/RDSO.
 2. CMEs: RCFK, ICF/Chennai and MCF/Raebareli.

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Director General/RDSO

Sub: Design features in coaches announced in Budget 2016-17

Design features in coaches announced in Budget 2016-17 as proposed by a committee of EDME/Chg and ED(T&C) vide OSD/MR's order dated 04.04.2016 were deliberated in the Board and following decided with the approval of Hon'ble MR:

1. Deen Dayalu Coaches: Following features to be essentially provided:-

- i. Provision of cushioned luggage racks which can serve as seat during rush. Moulded PUF foam seats can be explored.
- ii. Provision additional hand hold in doorway area.
- iii. Provision of J hooks near longitudinal luggage racks.
- iv. Toilets with polymerised floor coating.
- v. Provision of bio-toilets.
- vi. Water level indicator.
- vii. Toilet occupation indication display board.
- viii. Enhanced mobile charging facility.
- ix. Fire extinguishers with anti-theft arrangement.
- x. Pleasing interior and exterior colour scheme with anti graffiti measures.

No separate colour scheme is prescribed for Deen Dayalu Coaches however, esthetically pleasing vinyl sticker border on the exterior can be provided for differentiation from existing GS coaches.

2. Antyodaya Express Coaches: Following features to be essentially provided:-

- i. Provision of cushioned luggage racks which can serve as seat during rush. Moulded PUF foam seats can be explored.
- ii. Provision of additional hand hold in doorway area.
- iii. Provision of J-hooks near longitudinal luggage racks.

- iv. Provision of MU cable in each coach for running train service with loco at both ends.
- v. Vestibuled ends for inter coach movement of passengers and the service staff.
- vi. Potable water similar to Aquaguard type water filtration system.
- vii. Enhanced number of Mobile charging points.
- viii. Provision of bio-toilets.
- ix. Fire extinguishers with anti-theft arrangement.
- x. More pleasing colour scheme for interior and exteriors with anti-graffiti measures.

3. Humsafar coaches: Following features to be essentially provided:-

- i. Existing LHB AC 3-tier and conventional AC 3-Tier coaches shall be used.
- ii. GPS based Passenger information display system as per existing RDSO specification No. RDSO/PE/SPEC/AC/0087-2008 (Rev-1).
- iii. Passenger announcement system as per RCF Specification No.173 used in Rajdhani Shatabdi trains.
- iv. Fire and Smoke detection and suppression system
- v. CCTV system
- vi. Mobile laptop charging points as per existing RDSO scheme
- vii. Integrated Braille displays
- viii. Improved aesthetics with new interior and exterior colour scheme presenting a futuristic look with the use of Vinyl sheets similar to Maharaja Express coaches.

4. Tejas Coaches: Following features to be essentially provided:-

- i. These will be developed on LHB platform which have relatively higher carrying capacity.
- ii. Ergonomic seating with improved cushioning and upholstery.
- iii. Provision of Automatic entrance and interior doors and no manual doors.
- iv. Entertainment screens for each passenger along with head phone socket as per extant instructions of the Board.
- v. LED boards for advertising and communicating safety instructions to the passengers. This can also be clubbed with entertainment screens as per Para iv above.
- vi. GPS based Passenger information display system as per existing RDSO specification No. RDSO/PE/SPEC/AC/0087-2008 (Rev-1).
- vii. Improved aesthetics with new colour scheme presenting a futuristic look with the use of Vinyl sheets similar to Maharaja Express coaches.
- viii. Smart windows with automatic venetian blinds.
- ix. Dust sealed gangways.

- x. Fire and Smoke detection and suppression system.
- xi. CCTV system with remote control and monitoring capability.
- xii. Concealed LED lighting as per RDSO Specification No. RDSO/PE/SPEC/TL/0091-2008 Amd-2. .
- xiii. Adjustable reading lights. Specification of adjustable reading light to be prepared by ED/PS&EMU/RDSO.
- xiv. Passenger announcement system.
- xv. Vending machine.
- xvi. Mobile laptop charging points as per existing RDSO scheme.
- xvii. Provision of WI-FI facility.
- xviii. Integrated Braille displays.
- xix. Individual Magazine bags, bottle holders, snack table etc.
- xx. Bio-Vacuum toilets.
- xxi. Sensorised taps, flushing system, hand driers, tissue paper dispenser and soap dispenser for touch less experience of toilet use. Detailed specification for power supply interface and electrical schematic to be prepared by ED/PS&EMU/RDSO after taking all safety aspects in to consideration.
- xxii. Water level indicators.
- xxiii. Accessible dustbins with garbage compacting feature for higher capacity.
- xxiv. Digital Destination Board and electronic passenger reservation chart.

As the design development takes place certain additional amenities enhancing passenger comfort can be added.

For Humsafar, Antyodaya and Tejas coaches, approved colour scheme in soft copy is being mailed separately to Production Units based on which detailed colour scheme should be developed.

This is for your information and further necessary action for early introduction of Budget announced coaches/train services.


17/06/16

(Prashant Kumar)
Director Mech Engg (Coaching)
Railway Board

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