

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

No. 2011/M(C)/137/2

New Delhi dated 16.5.11
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The General Managers,
RCF, Kapurthala
Western Railway, Mumbai


Sub: Development and manufacture of coaches for Super AC Class

In consonance with Para 54 of Hon'ble MR's Budget Speech 2011-12 relating to introduction of a new Super AC Class of travel, Board have approved of the following for manufacture/retro fitment of coaches for the Super AC class:

- (1) The Super AC class would be conceptualized in between the existing I AC and AC 2 Tier. The interior aesthetics and comfort levels in these coaches shall be comparable to world class standards, duly optimizing on the space availability and ergonomics. As a pilot project in 2011-12, 25 such new Super AC coaches would be built at RCF on LHB-FIAT EOG platform while retrofitment shall also be carried out in 25 conventional ICF design AC 2-Tier coaches (EOG/SG) on Western Railway.
- (2) The incremental cost towards the upgraded furnishings and interiors in the Super AC coaches shall be funded through the existing bulk RSP sanctions 2011-12 (figuring under "Carriages" - Item No. 470) at an estimated unit cost of Rs.18 lakhs/coach.
- (3) The design development and interior furnishing of Super AC coaches under the pilot project as above may be taken up on a limited tender basis through M/s Kemrock and M/s Hindustan Fibers, the professional agencies in the field of Rail car interiors currently engaged for the work of developing of select coaches to world class standards during their refurbishment at MLR Workshop/Bhopal/WCR.
- (4) The salient design/layout features for Super AC coaches shall be as under:
 - (i) The passenger carrying capacity shall be 44 for a new LHB FIAT EOG coach. For the retrofitment on a ICF design coach, there may be a proportionate reduction in passenger carrying capacity. The layout shall have optimal utilization of the space for seats and berths in the transverse directions. Few longitudinal side berths could be done away with, providing for the accessories and utilities like linen storage, mini cloak room, electrical cubical etc.
 - (ii) No sliding doors shall be provided for transverse side berths/cabins. Aesthetically appealing screens, with cut outs serving the purpose of footsteps for access to the upper berths can be considered.

- (iii) Added comfort needs to be provided by means of regulated temperature control for AC in each cabin, energy efficient aesthetically appealing LED light fittings including berth reading lights with adjustable focus and laptop/mobile charging sockets etc.
 - (iv) Suitable arrangements for augmenting the electrical power supply and feed from adjacent Sleeper Class coaches etc. by employing 2 X 12 KW Alternator and 650 Ah capacity VRLA Battery, may be considered for the Self Generating ICF design AC 2-Tier coaches identified for retrofitment to Super AC Class.
 - (v) A modern sub pantry comprising of water cooler, food warmer to accommodate a food trolley with a capacity of about 70 trays and a water boiler may be provided. Hot air fan circulation may be examined for adaption for food warming requirement.
 - (vi) Modular toilets with fittings and amenities as in a standard LHB design coach shall be provided in these coaches as well.
 - (vii) Space availability, ergonomics and costs permitting, infotainment infrastructure can also be considered but restricted to provision of down drop screens for playing of prerecorded audio- visuals.
- (5) Board desires that time lines be drawn to facilitate introduction of Super AC coaches in regular service by Oct., 2011. RCF and WR may accordingly take up the project on topmost priority, in consultation with RDSO/WCR and advise the milestones for Board's information.

This issues with the concurrence of Finance Directorate of Railway Board.


(Arvind Nautiyal)
Dir Mech Engg (Coaching)
Railway Board

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Copy forwarded for information to: The FA & CAO's, RCF & Western Railway


For Financial Commissioner Railways

Copy to: 1. The General Manager, West Central Railway, Jabalpur
2. The Director General, RDSO, Lucknow