

Chennai Metro Rail Limited
Tender Description: Design, Manufacture, Supply, Testing, Commissioning of Standard Gauge Metro Rolling Stock (210 cars) and Training of Personnel
Tender No. CMRL/PHASE II/SYS/CP26/ARE02/2021
Tender ID. 2021_CMMDB_640237_1

Addendum No.05

S. No.	Part / Section	Clause No.	Original Bid Condition	Revised Bid Condition
1	Part 2/ Section VI	3.4.9.4.1	The glazing material shall be laminated glass and it shall comply to IS 2552 or any International Standard.	Glazing material shall be laminated glass and it shall comply to IS 2553 or any International Standard..
2	Part 2/ Section VI	19.34.6	Thermal insulation material shall have a thermal conductivity of not greater than (13 kJ/hr-m ² -Co/cm) when tested in accordance with ANSI Z98.1.	Suitable acoustic insulation shall be provided on the carbody side and roof side to minimise the effect of reflected noise into the saloon. The car body shall be designed to have high thermal insulation to reduce the heat loss and heat transfer coefficient (K value) of the car body excluding glazing / windows shall be kept within 1.6W/(m ² K). The calorific value of the insulation material used as well as the material used for fixing the insulation shall be bare minimum. Any insulation shall be protected against degradation, migration of particles into the car interior and shall be retained even when access panels are opened.
3	Part 2/ Section VI	19.34.7	The method of retention in the car shell, for all insulating materials, shall be subject to CMRL approval.	Thermal and Acoustic insulation measures sufficient to meet internal noise levels and VAC requirements of the car body shall be provided. The method of retention in the car shell, for all insulating materials, shall be subject to CMRL approval.
4	Part 2/ Section VI	Appendix D2		Revised Alignment drawing attached in the below web link. https://cmrlindia-my.sharepoint.com/:f/g/personal/selvakumar_ganapathi_nkab_cmrl_in/Engc3EsBqTJLouKxm2p4Q7oB_tguhvtWmXnd2-0WNUiZQ?e=5%3aYk184v&at=9