

BROAD GAUGE METRO CAR (25 kV AC)



Track Data	Rail Gauge	1676 mm
	Minimum Curve Radius	200 mtr (Main line) 175 mtr (Depot)
	Maximum Gradient	3% (Main line) 4% (Depot)
Current Collection System	Supply Voltage	25kV AC Single Phase 50 Hz
	Current Collection system	Overhead Current collection
Type of Car	DT	Driving Trailer Car
	M	Motor Car
	T	Trailer Car
Basic Specifications		
Train Composition	4,6,8 Cars	DT M M DT; DT-M-T-M-M-DT; DT-M-T-M-M-T-M-DT
Car tare weight	DT	40 tonnes
	M/T	40 tonnes
Passenger Carrying Capacity	DT	361 Persons (Seating 43, Standing 318) + 1 Driver
	M/T	392 Persons (Seating 50, Standing 342)
	Wheel Diameter	860 mm (New) 820 mm (Half worn) 780 mm (fully worn)
Speed Control System	Control of Acceleration and Deceleration by Variable Voltage Variable Frequency (VVVF) Inverter blended with Regenerative Braking	
Brake System	Regenerative Braking blended with pneumatic braking by electrical, and BP back up brake by Driver's brake valve. Tread brake unit with double shoe.	
Train Speed	i) Maximum Design Speed	90 kmph
	ii) Maximum Operation Speed	80 kmph
Car Body	Material	Stainless Steel
	Length over body	DT: 21,640mm M/T: 21,340mm
	Maximum width of Body (Including door thickness)	3200mm
	Height of Aircon from	

	TOR at car Center line	3868mm
Bogie & Driving Gear Unit	i) Bogie Type	Bolsterless type bogie with air spring
	ii) Suspension · Primary · Secondary	Conical Bonded Rubber Spring Air Spring
	iii) Driving Gear Unit	One Stage Helical Gear with bipartite housing
Propulsion System	Traction Motor	Squirrel Cage type 3 phase Induction Motor
	Converter / Inverter	IGBT Element
	Auxiliary Power Supply Unit (SIV)	IGBT Element
	Pantograph	Single Arm, Air Raised, Direct Air type
Battery	Nickel Cadmium Alkaline Battery	
Air Conditioner	Roof mounted and self contained type	
	Saloon Air Conditioner	Cooling Capacity: 45 kW
	Cab Air Conditioner	Cooling Capacity: 5 kW
Passenger Saloon Door	Electrically driven Externally sliding type	
Window Glass	Double glazed, Toughened, Laminated glass	
Interior Panel	Material: Semi Nomax Honey Comb (GFRP)	
Passenger Saloon Door	Material: Aluminum Honey Comb	
Insulation	Material: Double side aluminium clad Glass Wool	
Floor Covering	Material: Rubber	
Customer	Delhi Metro Rail Corporation Limited (RS1, R4, R6, RS13 Project)	
Cars Supplied	396 Nos. (as on 31-Mar-2017)	