

**STANDARD GAUGE METRO CAR (25 kV AC)**



<b>Track Data</b>	Rail Gauge	1435 mm
	Minimum Curve Radius	200 mtr (Main line) 120 mtr (Depot)
	Maximum Gradient	4% (Main line) 4% (Depot)
<b>Current Collection System</b>	Supply Voltage	25kV AC Single Phase 50 Hz
	System Current Collection	Overhead Current Collection
<b>Type of Car</b>	DT	Driving Trailer Car
	M	Motor Car
	T	Trailer Car
<b>Basic Specifications</b>	Train Composition 4/6/8 Cars	DT-M-M-DT; DT-M-T-M-M-DT; DT-M-T-M-M-T-M-DT
<b>Car tare weight</b>	DT	40 tonnes
	M/T	40 tonnes
<b>Passenger Carrying Capacity</b>	DT	315 Persons (Seating 43, Standing 272) + 1 Driver
	M/T	341 Persons (Seating 50, Standing 291)
<b>Speed Control System</b>	Wheel Diameter	860 mm (New) 820 mm (Half worn) 780 mm (fully worn)
	Control of Acceleration and Deceleration	Control of Acceleration and Deceleration by Variable Voltage Variable Frequency (VVVF) Inverter blended with Regenerative Braking
	Regenerative Braking	Regenerative Braking blended with pneumatic braking by electrical, and BP back up brake by Driver's brake valve.
<b>Brake System</b>	Wheel mounted disk brakes.	
<b>Train Speed</b>	i) Maximum Design Speed	95 kmph
	ii) Maximum Operation Speed	85 kmph
<b>Car Body Structure</b>	· Length over body	DT: 21,640mm M: 21,340mm
	· Maximum width of Body (Including door thickness)	2900mm
	· Height of Aircon from TOR at car Center line	4003mm
<b>Bogie &amp; Driving Gear Unit</b>	i) Bogie Type	Bolsterless type bogie with air spring
	ii) <b>Suspension</b>	
	· Primary · Secondary · Dampers	Conical Bonded Rubber Spring Air Spring Vertical and Lateral
iii) <b>Driving Gear Unit</b>	One Stage Helical Gear with bipartite housing	

<b>Propulsion System</b>	<b>Traction Motor</b>	Squirrel Cage type 3 phase Induction Motor
	<b>Converter / Inverter</b>	IGBT Element
	<b>Auxiliary Power Supply Unit (SIV)</b>	IGBT Element
	<b>Pantograph</b>	Single Arm, Air Raised, Direct Air type
<b>Battery</b>	Nickel Cadmium Alkaline Battery	
<b>Air Conditioner</b>	Roof mounted and self contained type	
	Saloon Air Conditioner	Cooling Capacity: 46kW
	Cab Air Conditioner	Cooling Capacity: 05kW
<b>Passenger Saloon Door</b>	Electrically driven Externally sliding type	
<b>Window Glass</b>	Double glazed, Toughened, Laminated glass	
<b>Interior Panel</b>	Material: GFRP	
<b>Passenger Saloon Door</b>	Material: Aluminium	
<b>Insulation</b>	Material: Double side aluminium clad Glass Wool	
<b>Floor Covering</b>	Material: Rubber	
<b>Customers</b>	Delhi Metro Rail Corporation Limited (RS3 & RS9 Project) Jaipur Metro Rail Corporation Limited (10 Trainset of 4 Cars)	
<b>Cars Supplied</b>	398 Nos. (as on 31/03/2017)	