



Electric Multiple Unit (Metro Coach)

Main Technical Specification

Track Data	Rail gauge	1676 mm		
	Minimum Curve Radius	200 mtr (Main line) 175 mtr (Depot)		
	Maximum Gradient	3% (Main Line) 4% (Depot)		
Track Data Current collection System	Supply Voltage	25kV AC Single Phase 50 Hz		
	System Current Collection	Through Pantograph		
Basic Specifications of Pad Corridor Car	1. Type of Car			
	DT	Driving Trailer Car		
	M	Motor Car		
	2. Train Composition			
	4 Cars	DT - M - M - DT		
	3. Car tare weight			
	DT	Less than 42 tonnes		
	M	Less than 42 tonnes		
	4. Maximum Number of Passengers			
	DT	361 Persons (Seating-42, Standing 318)		
M	392 Persons (Seating-50, Standing-342)			
5. Wheel diameter	860 mm (New)			
	820 mm (Half Worm)			
	780 mm (Fully Worm)			
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			
Train Speed	i) Maximum Design Speed	90 kmph		
	ii) Maximum Operation Speed	80 kmph		
Car Body Structure	Length over Body	DT : 21,640 mm M : 21,340 mm		
	Maximum width of Body (Including door thickness)	3200 mm		
	Height of Aircon from TOR at car Center line	3898 mm		
Bogie & Driving Gear Unit	i) Bogie type	Bolsterless type bogie with air spring		
	ii) Friction Braking system			
	◆ Motor Car Bogie	Tread brake unit with double shoe		
	◆ Trailer Car Bogie	Tread brake unit with double shoe		
Traction Motor	iii) Suspension			
	◆ Primary	Conical Bonded Rubber Spring		
	◆ Secondary	Air Spring		
iv) Driving Gear Unit	One stage Helical Gear with bipartite housing			
Converter / Inverter	Squirrel Cage type 3 phase Induction Motor			
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 : 41 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			
Passenger Saloon Seat	Material : Stainless Steel			
Insulation	Material : Glass Wool			
Floor Covering	Material : Rubber			