WDP4D-4500 HP PASSENGER LOCOMOTIVE

Broad gauge passenger traffic, CO-CO diesel electric locomotive equipped with 16 cylinder 4500hp engine with IGBT based traction control system.

This is a dual cab locomotive i.e. it has driving cabs at both ends. Both the cabs have full width control consoles, each console having two TFT displays. Each cab is provided with a 'Button Lever' (BL) key for operating the locomotive. The ECC-1 side Cab is named as Cab-1, while the Radiator side Cab is named as Cab-2. The first WDP4D loco was manufactured in Oct'10.

Diesel Engine

- 16 Cylinder 710 G3B, 2 Stroke, turbocharged - after cooled
- Fuel Efficient Engine
- Injection System - Mechanical Unit Injector
- Governor - Woodward
- Compression Ratio - 16:1
- Lube Oil Sump Capacity - 1457 Ltrs.

Brakes

- Electronic Air Brake System (KNORR-NYAB-Computer Controlled Braking)
- Air, hand, dynamic brake
- Pure air brake

Transmission

- Electrical AC-DC
- 6 Traction motor (3 in parallel per bogie)
- Suspension - Axle hung / taper roller bearing
- Gear Ratio - 77:17

Truck

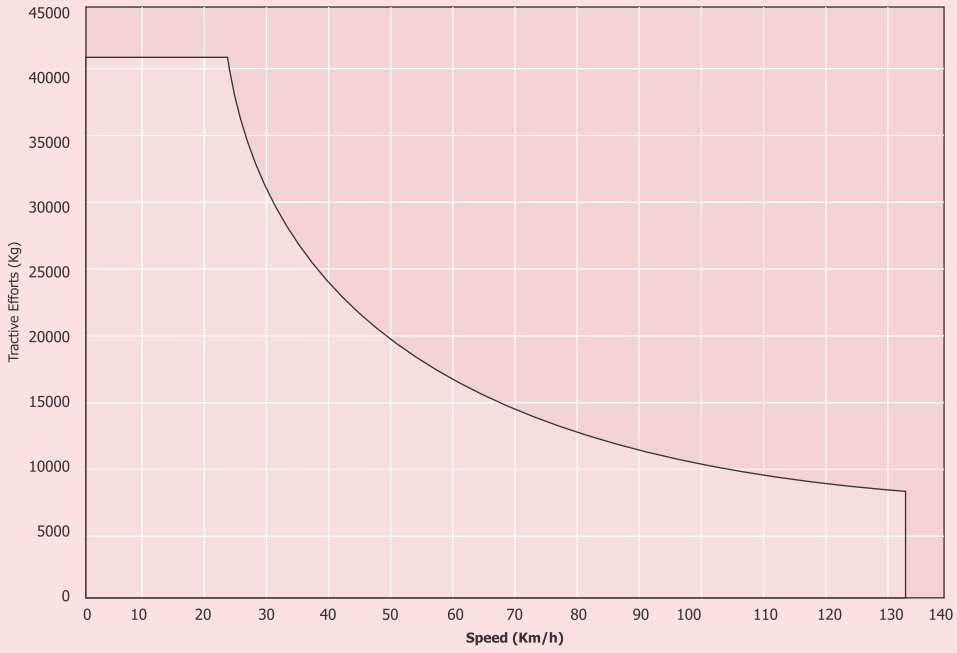
- High adhesion Fabricated Steel Fab-II design truck.
- High traction, high speed, bolsterless 3 axle bogie with unidirectional Traction motor arrangement.

OUR LOCOS MOVE THE NATION

General Characteristics	
Installed Power	4500 HP
Axle Load	20.5 T
Gauge	1676 mm
Wheel arrangement	Co-Co
Wheel diameter	1092 mm
Height	4201 mm
Width	3062 mm
Overall Length	23 m
Weight	123.0 T
Max tractive effort	41 T
Maximum Speed	135 Kmph
Fuel tank capacity	5000 ltrs.
Locomotive Control	Loco Control Computer Traction Control



Tractive Effort & Dynamic Brake Chart



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