WDG4D-4500 HP GOODS LOCOMOTIVE

Broad gauge goods traffic, CO-CO diesel electric locomotive equipped with 16 cylinder 4500 HP 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, one each for the loco pilot and his assistant. 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 WDG4D loco was manufactured in Nov'13.

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-AC
- 6 Traction motor (3 in parallel per bogie)
- Suspension - Axle hung taper roller bearing
- Gear Ratio - 90:17

Truck

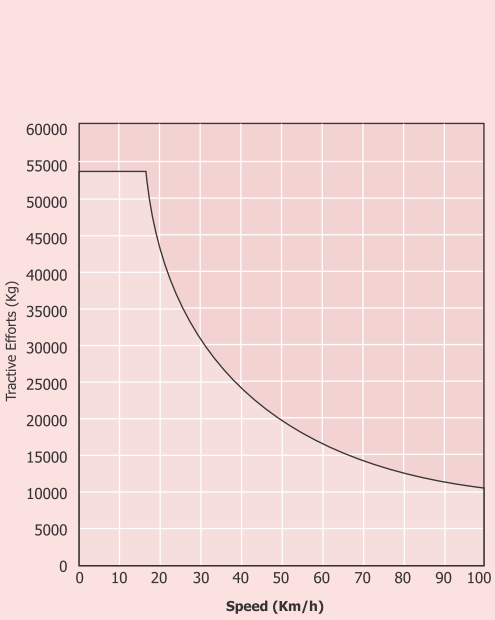
- High Traction, High Speed Bolsterless, 3 axle, Cast Steel Bogie Frame & Unidirectional Traction Motor arrangement for high adhesion

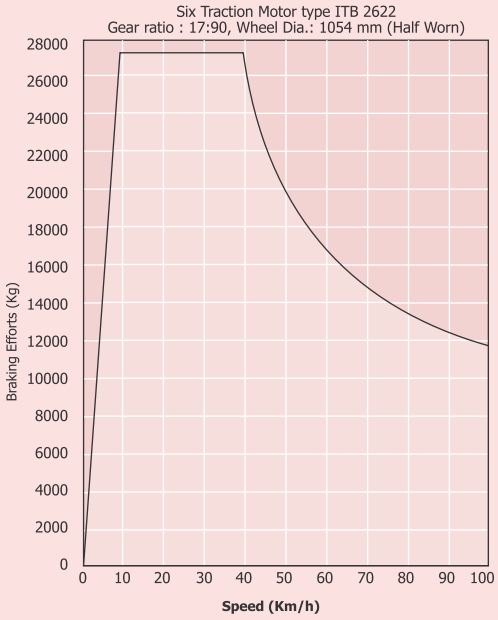
OUR LOCOS MOVE THE NATION

General Characteristics	
Installed Power	4500 HP
Axle Load	21.7 T
Gauge	1676 mm
Wheel arrangement	Co-Co
Wheel diameter	1092 mm
Height	4201 mm
Width	3062 mm
Overall Length	23 m
Weight	130.2 T
Starting tractive effort	540 KN
Maximum Speed	100 Kmph
Fuel tank capacity	6000 ltrs.
Locomotive Control	Loco Control Computer Traction Control



Tractive Effort & Dynamic Brake Chart





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