WDM3D - 3300HP MIXED SERVICE LOCOMOTIVE

The 3300 HP WDM3D locomotive is a mixed service locomotive with 500 mm shorter platform as compared to WDG3A and provided with a modified version of high adhesion bogies employed on WDG3A. It has reduced weight because of fabricated beams, light weight traction motors and a smaller fuel tank etc. It uses modern microprocessor technology for excitation & propulsion control and wheel creep.

This locomotive is suitable for multiple operations.

The locomotive is equiped with AC-DC transmission consisting of a directly coupled self ventilated BHEL make TA10102 EV model traction alternator with BHEL make panel mounted rectifier type AR 3700A, driving 6 axle hung nose suspended BHEL/CG/GE traction motors geared for maximum speed of 120 km/h.

Diesel Engine

- 16 Cylinder 251C Engin, 4 Stroke, Turbocharged
- Fuel Efficient Engine
- Injection System - Through Fuel Injection Pump,Fuel Injection Tube & Nozzle
- Governor - MCBG
- Compression Ratio - 11.75 : 1
- Lube Oil Sump Capacity - 1025 Ltrs

Brakes

- Panel mounted IRAB-1 Brake system
- Pure air Brake system

Transmission

- Electrical AC-DC
- 6 Traction motor (3 in parallel per bogie)
- Suspension - Axle hung/ Nose Suspension
- Gear Ratio - 18.65

Truck

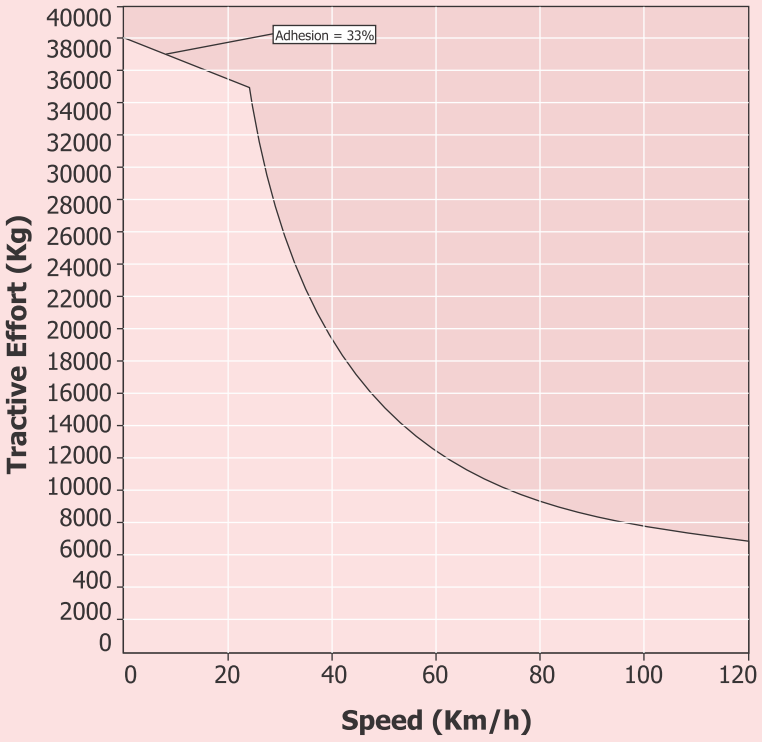
- High adhesion Fabricated Co-Co bogie
- Adhesion (μ)-0.33

OUR LOCOS MOVE THE NATION

General Characteristics	
Installed Power	3300 HP
Axle Load	19.5 T
Gauge	1092 mm
Wheel arrangement	Co-Co
Wheel diameter	1092 mm
Height	4162 mm
Width	3016 mm
Overall Length (Over Buffer Beam)	17350 mm
Weight	117 T
Max. tractive effort	38.6 T
Maximum Speed	120 Kmph
Fuel tank capacity	5000 lts
Locomotive Control	Microprocessor



Tractive Effort Chart



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