3000 HP CAPE GAUGE MIXED SERVICE LOCOMOTIVE

The 3000 HP Cape Gauge locomotive is a mixed service locomotive with same as compared to WDG4 and is provided with a modified version of tri-mount bogies.

The locomotive is equipped with 12 cylinder HHP engine and comes with AC-AC transmission consisting of a directly coupled self ventilated BHEL make traction alternator type TA12CA6 with BHEL make with driving six axle hung nose suspended traction motors type 1M4504AZ geared for a maximum speed of 100 km/h.

Diesel Engine

- 12 Cylinder 710G3B Engine.
  2 Stroke, turbocharged.
- Injection System - Multiple unit injector
- Governor - Woodward
- Compression Ratio - 16 : 1
- Lube Oil Sump Capacity - 1025 Ltrs

Transmission

- Electrical AC-AC
- 6 Traction motor (3 in parallel per bogie)
- Suspension - Axle Hung / Nose Suspension
- Gear Ratio - 17:70

Brakes

- Computer Controlled Brake System(CCB)
- Hand & Dynamic brake

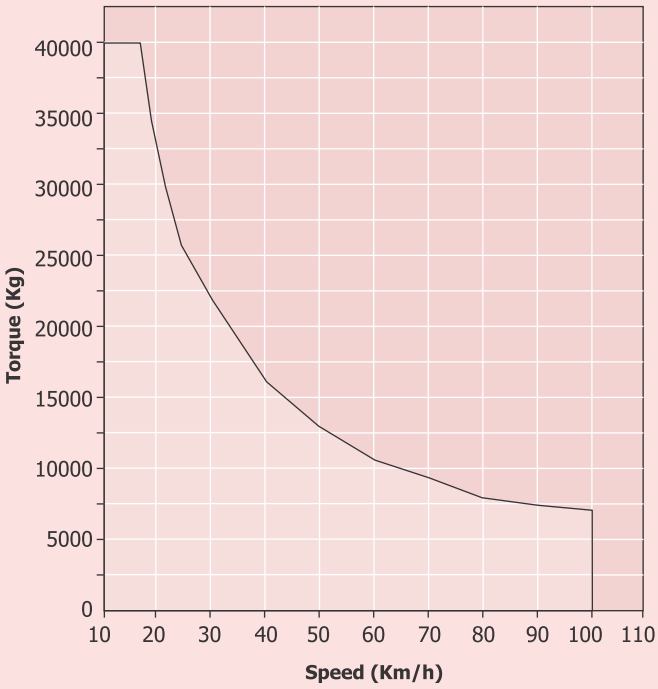
Truck

- Tri-mount Fabricated CO-CO bogie
- Adhesion(μ) - 0.35

General Characteristics	
Installed Power	3000 HP
Axle Load	20 T
Gauge	1067mm
Wheel arrangement	CO-CO
Wheel diameter	1000 mm
Height	3965 mm (max)
Width	3000 mm
Overall Length	19964 mm
Weight	120 T
Starting Tractive Effort	400 KN
Continuous Tractive Effort	25 KN
Maximum Speed	100 kmph
Fuel tank capacity	6000 Ltrs.
Locomotive Control	Microprocessor Control IGBT



Tractive Effort Chart



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