OPERATING CONDITIONS FOR COUPLERS

1. Coach Type : Broad Gauge Passenger Coaches

(fitted with Semi-permanent Coupler)

2. Axle Load : 20.32t (max.)

3. Gross Load (Coach) : MC-80.72t, TC (D)71.80t,

TC(C)-70.68t & TC(C) -71.58t (max.)

5. Grade : 1 in 37 (steepest)

6. Speed (maximum) : 160 km/h

7. Curve (Sharpest) : 175 m (radius)

8. Climatic & Environmental Conditions

- Maximum Temperature : 70° C

- Maximum Temperature (Under shade) : 45⁰ C

- Minimum Temperature

(at night) $:-5^{\circ}C$

- Rainfall : Fairly Heavy

- Humidity : 100% saturation

- Environment : Dusty during hot weather and

saline in coastal areas

9. Coupler Height (for coaches) : 1035 mm (from Rail Level)

10. Coupler Height (for locos) : 1090 mm (from Rail Level)

11. Wheel Diameter (for coaches) : 952 mm (new) :MC-877, TC-857

& HCC-865 mm (condemning)

12. Type of Brake System : Electro pneumatic brakes having

composition or cast iron brake

blocks.

13. Maximum number of coaches : 24 coaches

in rake formation

14. All the coupler heads, muff coupling and locking arrangements in the rake shall be similar to existing Scharfenberg semi-permanent type couplers except for driving end where provisions shall be made for fitment of draw hook or compatible with screw coupling or AAR 'H' type CBC or 'E' type CBC to in the place of coupler head.

15. The distance between the headstock and coupling line shall be 400 mm when semi-permanent couplers are fitted.

- 16. The semi-permanent couplers shall be provided with arrangement for coupling of brake pipes.
- 17. The coupler mounting arrangement shall be provided along with semipermanent couplers.
- 18. All intermediate couplers in the four car / three car units shall be of the semi- permanent type.

19. Side Buffers : On end of coaches

20. Coach Strength : Satisfies end load requirements as per

UIC 566