

Ans (7)

$$\text{Sleeper density} = N \times X$$

For BCN track total number of sleepers required for 1 km length of railway track

$$\text{if sleeper density} = N + 5$$

$$\text{length of one rail} = 12.8 \text{ m} \approx 13 \text{ m}$$

$$\text{Sleeper density} = N + 5$$

$$= 13 + 5 = 18$$

Total number of sleepers required for 640 m length

$$= \frac{18}{12.8} \times 640$$

$$= 900 \text{ sleepers}$$