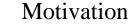


Composite Railway Sleeper:

A cost effective and eco-friendly alternative







- High maintenance cost
- Huge CO₂ emission
- Early failure in the existing sleeper

CO₂

Environmental Problems



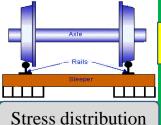






Our Solution: Composite materials + Optimisation

Composite = Eco friendly + No insect infection and chemical attack



Material wastage



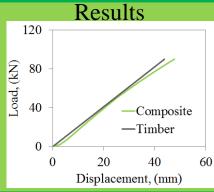
Material savings



Traditional shape

Optimised shape







Conclusions:

- Optimised shape reduces two-third volume of materials
- Composite sleeper behaviour is comparable with timber

