VE Commercial Vehicles achieved a significant weight saving for its 31 Ton 8x2 Vehicle whole frame by utilizing design optimization techniques. The frame was given as a design space and optimal Cross member position and shape were extracted. As a result, the frame was changed completely from a Ladder Structure to X-Type Structure. This led to a weight saving of 160kg and improved frame stiffness leading to better ride and handling characteristics.

VE Commercial Vehicles
Heavy Duty Truck

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Category: **Full Vehicle**

**Application:**

**2016 VE 8x2 Truck**

**Weight Savings:**

106kg weight reduction compared to steel model

**Methodology:**

Material Replacement