The radius of a horizontal circular curve is 80m. The design speed is 45 kmph and the design co-efficient of lateral friction is 0.15 Determine.

i) The super elevation required if full lateral friction is assumed to develop.

ii) Co-efficient of friction needed if no super elevation is provided.

$e - f$

$e = 0 \quad f$

Given

$R = 80m \quad V = 45 \, kmph \quad f = 0.15$

i) $e + f = \dfrac{V^2}{127R}$

$e + 0.15 = \dfrac{45^2}{127 \times 80}$

$e = 0.0493$

ii) $e = 0$

$0 + f = \dfrac{V^2}{127}$ $= f = \dfrac{45^2}{} = 0.199$

Super Elevation and Co-efficient of Friction

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