

Area calculation Sheet

(Proposed Forest Area for diversion for non- forestry use)

Proposed for Exit/Entry of IOCL Retail Outlet on Aligarh - Mathura Road (SH – 80),
At (CH. No. 5.099), At Khasra No. 30, Village: Daulatabad, Tehsil: Koil,
District: Aligarh (Uttar Pradesh)

$$\begin{aligned}\text{Entry to petrol Pump} &= \text{Curve Polygon(A B A1)} + \text{Polygon (B B1 A2 A1)} \\ &= 36.34 \text{ SqM} + (11.50 \times 19.26) \text{ SqM} \\ &= (36.34 + 221.49) \text{ SqM} \\ &= 257.83 \text{ SqM}\end{aligned}$$

$$\text{Curve Radius} = 13\text{m} \times 13\text{m} = 169 \text{ SqM}$$

$$\pi r^2/4 = 3.14 \times 13 \times 13/4$$

$$= 132.66 \text{ SqM}$$

$$\begin{aligned}\text{Area of Curve Polygon} &= (169 - 132.66) \text{ SqM} \\ &= 36.34 \text{ SqM}\end{aligned}$$

$$\begin{aligned}\text{Forest land B/W Entry and Exit} &= \text{Polygon (B1 C1 D2 A2)} \\ &= (12.66 \times 19.26) \text{ SqM} \\ &= 243.8316 \text{ SqM} \approx 243.83 \text{ SqM}\end{aligned}$$

$$\begin{aligned}\text{Exit from Petrol Pump} &= \text{Polygon Curve (C1 C D1 D2)} + \text{Polygon (CDD1)} \\ &= 36.34 + (11.50 \times 19.26) \text{ SqM} \\ &= (36.34 + 221.49) \text{ SqM} \\ &= 257.83 \text{ SqM}\end{aligned}$$

Total Proposed Forest Area for Diversion

$$\begin{aligned}&= 257.83 \text{ SqM (Entry)} + 243.83 \text{ (Forest Area B/W Entry \& Exit)} + 257.83 \text{ SqM (Exit)} \\ &= 759.49 \text{ Sqm} \approx 759.5 \text{ SqM} = 0.07595 \text{ Ha}\end{aligned}$$

Non-Forest Land Area as per Layout Plan

$$= 35.66\text{m} \times 27.20\text{m} = 969.952 \text{ SqM}$$

$$\approx 970 \text{ SqM} = 0.097 \text{ Ha.}$$



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