

Area calculation

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

**Proposed for My Own Eco Energy PVT. LTD. (Bio Diesel) Retail Outlet On
Sidhauri - Biswan Road, MDR-23C, IN Km. No. 05-06, (CH. 5.039 LHS),
At Khasra No. 455, Paragana: Badi, Village: Kanha Mau,
Tehsil: Sidhauri, District: Sitapur (Uttar Pradesh)**

$$\begin{aligned}\text{Entry to petrol Pump} &= \text{Curve Polygon(A B A1) + Polygon (B B1 A2 A1)} \\ &= 36.34 \text{ SqM} + (15.7 \times 7.5) \text{ SqM} \\ &= (36.34 + 117.75) \text{ SqM} \\ &= 154.09 \text{ SqM}\end{aligned}$$

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

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

$$= 132.66 \text{ SqM}$$

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

$$\begin{aligned}\text{Forest land B/W Entry and Exit} &= \text{Polygon (B1 C1 D2 A2)} \\ &= (15.7 \times 5.0) \text{ SqM} \\ &= 78.5 \text{ SqM}\end{aligned}$$

$$\begin{aligned}\text{Exit from Petrol Pump} &= \text{Polygon Curve (C1 C D1 D2) + Polygon (CDD1)} \\ &= 36.34 + (15.7 \times 7.5) \text{ SqM} \\ &= (36.34 + 117.75) \text{ SqM} \\ &= 154.09 \text{ SqM}\end{aligned}$$

Total Proposed Forest Area for Diversion

$$\begin{aligned}&= 154.09 \text{ SqM (Entry) + 78.5 SqM (Forest Area B/W Entry \& Exit) + 154.09 SqM (Exit)} \\ &= 386.68 \text{ Sqm} = 0.038668 \text{ Ha}\end{aligned}$$


Non-Forest Area as per Layout Plan

$$= 20\text{m} \times 30\text{m} = 600 \text{ SqM}$$

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