

Protected Forest Land Calculation Sheet

Forest Land proposed for Exit/Entry and Middle of Indian Oil Corporation Ltd
Retail Outlet on Bisalpur-Bilsanda Road (Road No-62PA), Ch. 5.924 to 5.959
(RHS) Khasra No.821 Village: Itgaon, Tehsil: Bisalpur, District: Pilibhit, Uttar
Pradesh

Area as per Approved Layout Plan.

$$\begin{aligned}\text{Entry to Petrol pump} &= \text{Curve Polygon (ABA1)} + \text{Polygon (B B1 A2 A1)} \\ &= 36.34 + (30.53 * 11.5) \text{ sqm} \\ &= (36.34 + 351.095) \text{ sqm} \\ &= 387.435 \text{ sqm}\end{aligned}$$

$$\text{Curve Radius} = 13 * 13 = 169$$

$$\begin{aligned}\pi r^2 / 4 &= 3.14 * 13 * 13 / 4 \\ &= 132.66\end{aligned}$$

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

$$\begin{aligned}\text{Protected Forest land B/W Entry/Exit} &= \text{Polygon (B1 C1 D2 A2)} = \\ &= (30.53 * 12) \text{ sqm}\end{aligned}$$

$$\text{Protected Forest land B/W Entry/Exit} = 366.36 \text{ sqm}$$

$$\begin{aligned}\text{Exit from Petrol Pump} &= \text{Polygon (C1 C D1 D2)} + \text{Polygon Curve (C D D1)} \\ &= (11.5 * 30.53 \text{ sqm} + 36.34 \text{ sqm}) \\ &= (351.095 \text{ sqm} + 36.34 \text{ sqm})\end{aligned}$$

$$\text{Protected Forest Area for Exit from Petrol Pump} = 387.435 \text{ sqm}$$

$$\begin{aligned}\text{Total Proposed Protected Forest Area for Diversion} \\ &= 387.435 \text{ sqm (Entry)} + 366.36 \text{ sqm (Forest Area B/W Entry \& Exit)} + 387.435 \text{ sqm (Exit)} \\ &= (387.435 + 366.36 + 387.435) \text{ sqm} \\ &= 1141.23 \text{ sqm} \\ &= 0.114123 \text{ Ha}\end{aligned}$$


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