

## Protected Forest Land Calculation Sheet

Forest Land proposed for Exit/Entry and Middle of Bharat Petroleum Corporation  
Ltd Retail Outlet on Sambhal- Behjoi Road (SH-51) Km-79, Khasra No.325  
Village: Pawansa, Tehsil & District: Sambhal, Uttar Pradesh

Area as per Approved Layout Plan.

$$\begin{aligned}\text{Entry to Petrol pump} &= \text{Curve Polygon (ABA1) + Polygon (B B1 A2 A1)} \\ &= 36.34 + (16.5 * 19.36) \text{ sqm} \\ &= (36.34 + 319.44) \text{ sqm} \\ &= 355.78 \text{ sqm}\end{aligned}$$

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

$$\begin{aligned}\pi r^2 / 4 &= 3.14 * 13 * 13 / 4 \\ &= 132.665\end{aligned}$$

$$\begin{aligned}\text{Area of Curve Polygon} &= 169 - 132.665 \\ &= 36.335 \text{ sqm or } 36.34 \text{ sqm}\end{aligned}$$

$$\begin{aligned}\text{Protected Forest land B/W Entry/Exit} &= \text{Polygon (B1 C1 D2 A2)} = (22 * 19.36) \text{ sqm} \\ \text{Protected Forest land B/W Entry/Exit} &= 425.92 \text{ sqm}\end{aligned}$$

$$\begin{aligned}\text{Exit from Petrol Pump} &= \text{Polygon (C1 C D1 D2) + Polygon Curve (C D D1)} \\ &= (11.5 * 19.36 \text{ sqm} + 36.34 \text{ sqm}) \\ &= (222.64 \text{ sqm} + 36.34 \text{ sqm})\end{aligned}$$

$$\text{Protected Forest Area for Exit from Petrol Pump} = 258.98 \text{ sqm}$$

$$\begin{aligned}\text{Total Proposed Protected Forest Area for Diversion} \\ &= 355.78 \text{ sqm (Entry)} + 425.92 \text{ sqm (Forest Area B/W Entry \& Exit)} + 258.98 \text{ sqm (Exit)} \\ &= (355.78 + 425.92 + 258.98) \text{ sqm} \\ &= 1040.68 \text{ sqm} \\ &= 0.104068 \text{ Ha} \\ \text{or say} &= 0.1041 \text{ Ha.}\end{aligned}$$

$$\begin{aligned}\text{Non Forest Land} &= 45 \times 45 \\ &= 2025 \text{ sqm} \\ &= 0.2025 \text{ ha.}\end{aligned}$$

CoSo

(अरविन्द कुमार)

प्रभागीय वनाधिकारी  
सम्भल वन प्रभाग, सम्भल।

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