

Area Calculation

(Protected Forest Area Proposed for diversion for Non- forestry use)

**Proposed IOCL retail outlet on Shikohabad - Bhogaon road km 51 to 52
(cha. 51.950) LHS, village Sansarpur, Tahsil Mainpuri & District - Mainpuri**

Area Calculation Measurement of basis of Georeferenced Map & Layout Plan.

$$\begin{aligned}\text{Entry to Petrol pump} &= \text{Curve Polygon (ABA1) + Polygon (BB1A2A1)} \\ &= 36.34 + (12.86 \times 11.50) \text{ sqm} \\ &= (36.34 + 147.89) \text{ sqm} \\ &= 184.23 \text{ sqm}\end{aligned}$$

$$\begin{aligned}\text{Curve Radius} &= 13 \times 13 = 169 \\ \pi r^2 / 4 &= 3.14 \times 13 \times 13 / 4 \\ &= 132.66\end{aligned}$$

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

$$\text{Protected Forest land B/W Entry and Exit} = \text{Polygon (B1C1 D2 A2)} = (12.86 \times 12.0) \text{ sqm}$$

$$\text{Protected Forest land B/W Entry and Exit} = 154.32 \text{ sqm.}$$

$$\begin{aligned}\text{Exit from Petrol pump} &= \text{Polygon (C1 C D1 D2) + Polygon Curve (C D1 D)} \\ &= (12.86 \times 11.50 \text{ sqm}) + 36.34 \text{ sqm} \\ &= (147.89 + 36.34) \text{ sqm}\end{aligned}$$

$$\text{Protected Forest Area for Exit from Petrol Pump} = 184.23 \text{ sqm}$$

Total Proposed Proposed Forest Area for Diversion

$$\begin{aligned}&= 184.23 \text{ sqm (Entry)} + 154.32 \text{ sqm (Forest land B/W Entry and Exit)} + 184.23 \text{ sqm (Exit)} \\ &= (184.23 + 154.32 + 184.23) \text{ sqm} \\ &= 522.78 \text{ sqm} \\ &= \underline{0.052278 \text{ Ha.}}\end{aligned}$$

$$\begin{aligned}\text{Non Forest Area is As per Layout Plan} &= 35 \times 48.55 \text{ m} \\ &= 1699.25 \text{ sqm} \\ &= 0.16992 \text{ ha.}\end{aligned}$$

Hasan 5/8/14
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