

Protected Forest Land Calculation Sheet

Forest Land Proposed for Exit/Entry of HPCL Retail Outlet on Manjhanpur-Mahewa Ghat Road (SH-94), At Gata No-1530 Mi, Village: Sarasawan Pargana-Atharwan, Tehsil: Manjhanpur, District: Kaushambi (Uttar Pradesh)

Area As per Approved Layout Plan.

Entry to Petrol Pump=Curve Polygon (ABA1) + Polygon (B B1 A2 A1)

$$= 36.34 + (19.36 \times 12.0) \text{sqm}$$

$$= (36.34 + 232.32) \text{sqm}$$

$$= 268.66 \text{sqm}$$

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

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

$$= 132.66$$

$$\text{Area of Curve Polygon} = 169 - 132.66$$

$$36.34 \text{SQM}$$

$$\text{Protected Forest Land B/W Entry /Exit} = \text{Polygon (B1 C1 D2 A2)} = (19.36 \times 16.0) \text{sqm}$$

$$\text{Protected Forest Land B/W Entry and Exit} = 309.76 \text{sqm}$$

$$\text{Exit from Petrol Pump} = \text{Polygon (C1 C D1 D2)} + \text{Polygon Curve (C D D1)}$$

$$= (19.36 \times 12.0 \text{sqm} + 36.34 \text{sqm})$$

$$= (232.32 + 36.34) \text{sqm}$$

$$\text{Protected Forest Area for Exit from Petrol Pump} = 268.66 \text{sqm}$$

Total Proposed Protected Forest Area for Diversion

$$= 268.66 \text{sqm (Entry)} + 309.76 \text{sqm (Forest Area B/W Entry \& Exit)} + 268.66 \text{sqm (Exit)}$$

$$= (173.44 + 182.76 + 173.44) \text{sqm}$$

$$= 847.1 \text{sqm}$$

$$= 0.08471 \text{Ha}$$



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