

Protected Forest Land Calculation Sheet

Forest Land for Exit/Entry of HPCL Retail Outlet on Mathura-VrindavanMant-Naujheel Road (MDR-123),
IN KM-31, Hectometer 10, At a CH.KM-30.882 Of RHS IN Khasra No: 1025,Village:-Surir Kalan Banger,
Tehsil:- Mant, District:- Mathura (Uttar Pradesh)

Area As per Approved Layout Plan.

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

$$= 36.34 + (11.64 \times 12.0) \text{sqm}$$

$$= (36.34 + 139.68) \text{sqm}$$

$$= 176.02 \text{sqm}$$

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

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

$$= 132.66$$

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

$$36.34 \text{SQM}$$

Protected Forest Land B/W Entry /Exit= Polygon (B1 C1 D2 A2) = (11.64x12.0)sqm

Protected Forest Land B/W Entry and Exit = 139.68sqm

Exit from Petrol Pump= Polygon (C1 C D1 D2) +Polygon Curve (C D D1)

$$= (11.64 \times 12.0 \text{sqm} + 36.34 \text{sqm})$$

$$= (139.68 + 36.34) \text{sqm}$$

Protected Forest Area for Exit from Petrol Pump=176.02sqm

Total Proposed Protected Forest Area for Diversion

$$= 176.02 \text{sqm (Entry)} + 139.68 \text{sqm (Forest Area B/W Entry \& Exit)} + 176.02 \text{sqm (Exit)}$$

$$= (176.02 + 139.68 + 176.02) \text{sqm}$$

$$= 491.72 \text{sqm}$$

$$= 0.049172 \text{ Ha}$$


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