

Area Calculation

(Protected Forest Area proposed for diversion for non forestry Use)

Georeferenced Map of Proposed IOCL Retail Outlet On Itwa-Dhebrua Road (SH-76) AtKM Stone No-31 At Village-Bhalloha ,Tehsil-Itwa ,District: Siddharta Nagar,Uttar Pradesh
Area Calculation Measurements on basis of Georeferenced Map & Layout Plan.

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

$$= 36.34 + (19.36 \times 11.5) \text{sqm}$$

$$= (36.34 + 222.64) \text{sqm}$$

$$= 258.98 \text{sqm}$$

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

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

$$= 132.66$$

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

$$36.34 \text{SQM}$$

$$\text{Protected Forest Land B/W Entry and Exit} = \text{Polygon (B1 C1 D2 A2)} = (19.36 \times 12.0) \text{sqm}$$

$$\text{Protected Forest Land B/W Entry and Exit} = 232.32 \text{sqm}$$

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

$$= (19.36 \times 11.5 + 36.34) \text{sqm}$$

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

Total Proposed Protected Forest Area for Diversion

$$= 258.98 \text{sqm (Entry)} + 232.32 \text{sqm (Forest Area B/W Entry \& Exit)} + 258.98 \text{sqm (Exit)}$$

$$= (258.98 + 232.32 + 258.98) \text{sqm}$$

$$= 750.28 \text{sqm}$$

$$= 0.075028 \text{Ha}$$

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