

Area Calculation

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

Proposed IOCL Retail Outlet on Bahraich-Biswan Road (S.H-30), At village-Puraini,
Tehsil-Biswan, District Sitapur (U.P) Near Km Stone No.62.

Area Calculation Measurements on basis of Georeferenced Map & Layout Plan.
Entry to Petrol Pump=Curve Polygon (ABA1) + Polygon (B B1 A2 A1)

$$= 36.34+ (19.36 \times 11.25) \text{sqm}$$

$$= (36.34+218.00) \text{sqm}$$

$$= 254.34 \text{sqm}$$

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

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

$$= 132.66$$

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

$$36.34 \text{SQM}$$

$$\text{Protected Forest Land B/W Entry and Exit} = \text{Polygon (B1 C1 D2 A2)} = (19.36 \times 12) \text{sqm}$$

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

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

$$= (19.36 \times 11.25 \text{sqm} + 36.34 \text{sqm})$$

$$\text{Protected Forest Area for Exit from Petrol Pump} = 254.34 \text{sqm}$$

Total Proposed Protected Forest Area for Diversion

$$= 254.34 \text{sqm (Entry)} + 232.32 \text{sqm (Forest Area B/W Entry \& Exit)} + 254.34 \text{sqm (Exit)}$$

$$= (254.34 + 232.32 + 254.34) \text{sqm}$$

$$= 741 \text{ sqm}$$

$$= 0.0741 \text{ Ha}$$

$$\text{Non Forest Land} = 34.50 \text{M} \times 34.30 \text{M}$$

$$= 1183 \text{SQM} = 0.1183 \text{Ha.}$$


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