

Area Calculation

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

Proposed Essar Oil Limited Retail Outlet On Shahabad-Hardoi Road, (SH-25) At KHASRA No-200, Village: Saidpur, Tehsil: Shahabad, District: Hardoi (Uttar Pradesh)

Area Calculation Measurements on basis of Georeferenced Map & Layout Plan.

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

$$= 36.34 + (19.36 \times 9.0) \text{sqm}$$

$$= (36.34 + 174.24) \text{sqm}$$

$$= 210.58 \text{sqm}$$

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

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

$$= 132.66$$

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

$$= 36.34 \text{SQM}$$

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

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

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

$$= (19.36 \times 9.0 \text{sqm} + 36.34 \text{sqm})$$

$$\text{Protected Forest Area for Exit from Petrol Pump} = 210.58 \text{sqm}$$

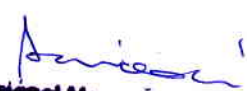
Total Proposed Protected Forest Area for Diversion

$$= 210.58 \text{sqm (Entry)} + 232.32 \text{sqm (Forest Area B/W Entry \& Exit)} + 210.58 \text{sqm (Exit)}$$

$$= (210.58 + 232.32 + 210.58) \text{sqm}$$

$$= 653.48 \text{sqm}$$

$$= 0.065348 \text{Ha}$$


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