

Protected Forest Land Calculation Sheet

Proposed Forest Land for Exit/Entry of HPCL Retail Outlet On Shahganj-Akbarpur Road (SH-5) At Khasra No.539, Village:- Mansurpur, Pargana:- Surhurpur, Tehsil:- Jalalpur, District:- Ambedkar Nagar (Uttar Pradesh)

Area As per Approved Layout Plan.

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

$$= 36.34 + (17.86 \times 11) \text{sqm}$$

$$= (36.34 + 196.46) \text{sqm}$$

$$= 232.8 \text{sqm}$$

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

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

$$= 132.66$$

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

$$36.34 \text{SQM}$$

$$\text{Protected Forest Land B/W Entry /Exit} = \text{Polygon (B1 C1 D2 A2)} = (17.86 \times 13.0) \text{sqm}$$

$$\text{Protected Forest Land B/W Entry and Exit} = 232.18 \text{sqm}$$

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

$$= (17.86 \times 11 \text{sqm} + 36.34 \text{sqm})$$

$$= (196.46 + 36.34) \text{sqm}$$

$$\text{Protected Forest Area for Exit from Petrol Pump} = 232.8 \text{sqm}$$

Total Proposed Protected Forest Area for Diversion

$$= 232.8 \text{sqm (Entry)} + 232.18 \text{sqm (Forest Area B/W Entry \& Exit)} + 232.8 \text{sqm (Exit)}$$

$$= (230.82 + 229.84 + 230.82) \text{sqm}$$

$$= 697.78 \text{sqm}$$

$$= 0.069778 \text{Ha}$$

Non Forest Area is As Per Layout Plan = 35MX35M

$$= 1225 \text{SQM}$$

$$= 0.1225 \text{Ha}$$


G.R. VIJAYA KUMAR
Chief Regional Manager
Duly Constituted Authority
Hindustan Petroleum Corporation Ltd.
Varanasi Retail Region

**Chief Regional Manager
Regional Office, Varanasi**