

Area Calculation Sheet as per Approved Layout Plan

PROPOSED PROTECTED FOREST LAND TO BE DIVERTED FOR ENTRY/EXIT APPROACH TO IOCL RETAIL OUTLET ON BILRAYAN-PANWARI ROAD (SH-21) IN KM NO. 24, (CH NO. 23.410 TO 23.445 RHS), AT GATA NO. 407, VILLAGE: - BAROTHA, TEHSIL: - NIGHASAN, DISTRICT: - LAKHIMPUR-KHERI (UTTAR PRADESH).



Area of Entry approach to retail outlet

= Area of Curve Polygon(A B2 A1) + Area of rectangle (B B1 A2 A1)

Area of Curve Polygon(A B2 A1)

$$\begin{aligned} &= \{ (r_1 \times r_2) - (\pi \times r_1 \times r_2)/4 \} \\ &= \{ (13.0\text{m} \times 13.0\text{m}) - (3.14 \times 13.0 \times 13.0/4) \} \\ &= (169.0 - 132.665) \text{ SqM} \\ &= 36.34 \text{ SqM} \end{aligned}$$

Area of rectangle (B B1 A2 A1)

$$\begin{aligned} &= \{ \text{Length(m)} \times \text{width(m)} \} \\ &= (11.50\text{m} \times 22.555\text{m}) \\ &= 259.3825 \text{ SqM} \end{aligned}$$

So, Area of Entry approach to retail outlet = (36.34 + 259.3825) SqM = 295.7225 SqM

Area of Separator = Area of rectangle (B1 C1 D2 A2)

Area of rectangle (B1 C1 D2 A2)

$$\begin{aligned} &= \{ \text{Length(m)} \times \text{width(m)} \} \\ &= (12.0\text{m} \times 22.555\text{m}) \text{ SqM} \\ &= 270.66 \text{ SqM} \end{aligned}$$

Area of Exit approach from retail outlet

= Area of Curve Polygon(C2 D D1) + Area of rectangle (C C1 D2 D1)

Area of Curve Polygon(C2 D D1)

$$\begin{aligned} &= \{ (r_1 \times r_2) - (\pi \times r_1 \times r_2)/4 \} \\ &= \{ (13.0\text{m} \times 13.0\text{m}) - (3.14 \times 13.0 \times 13.0/4) \} \\ &= (169.0 - 132.665) \text{ SqM} \\ &= 36.34 \text{ SqM} \end{aligned}$$

Area of rectangle (B B1 A2 A1)

$$\begin{aligned} &= \{ \text{Length(m)} \times \text{width(m)} \} \\ &= (11.50\text{m} \times 22.555\text{m}) \\ &= 259.3825 \text{ SqM} \end{aligned}$$

So, Area of Exit approach from retail outlet = (36.34 + 259.3825) SqM = 295.7225 SqM

Total Proposed Protected Forest Area for Diversion

$$\begin{aligned} &= 295.7225 \text{ SqM (Entry)} + 270.66 \text{ SqM (Forest Area B/W Entry \& Exit)} + 295.7225 \text{ SqM (Exit)} \\ &= 862.105 \text{ Sqm} = 0.086211 \text{ Ha.} \end{aligned}$$

Non-Forest Land/Private Land Area as per Layout Plan

$$\begin{aligned} &= \text{Private Land area} = \text{area of rectangle shape plot BCHI} = \text{length (m)} \times \text{width (m)} = 35.0\text{m} \times 36.5\text{m} = 1277.5 \text{ SqM} \\ &\approx 0.1278 \text{ Ha.} \end{aligned}$$

28/09/20
कुमार विभाष
वरिष्ठ प्रबंधक (रिटेल सेल्स)
इंडियन ऑयल कॉर्पोरेशन लिमिटेड (एम.डी.)
बरेली मंडल कार्यालय
35-ए, सिविल लाईन्स, कमला नेहरू मार्ग,
बरेली-243001 (उ०प्र०)

(Authorized Signatory)

Indian Oil Corporation Ltd.
Division Office Bareilly