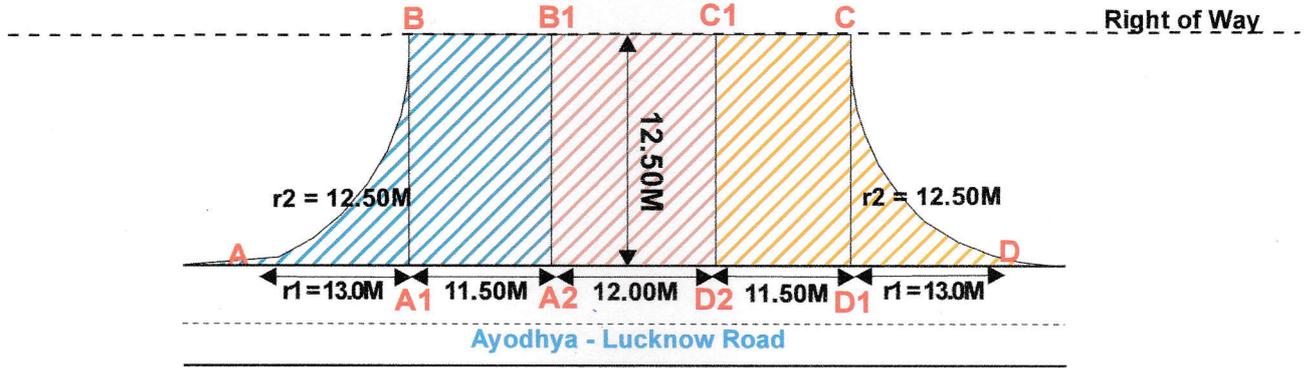# Area Calculation Sheet as per Approved Layout Plan

**PROPOSED PROTECTED FOREST LAND TO BE DIVERTED FOR ENTRY / EXIT OF INDIAN OIL CORPORATION LIMITED RETAIL OUTLET ON LUCKNOW-AYODHYA ROAD NH-28 (NEW NH-27) IN KM NO. 111 (CH. NO.- 110.909, RHS) AT KHASRA NO. – 116, VILLAGE:- SALHEPUR NEMAICHA, TEHSIL:- SOHAWAL, DISTRICT:- AYODHYA (U. P.)**



**Area of Entry approach to retail outlet**

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

Area of Curve Polygon(A B A1)

= $\{(r1 \times r2) - (\pi \times r1 \times r2)/4\}$

= $\{(13.0m \times 12.50m) - (3.14 \times 13.0 \times 12.50/4)\}$

= (162.50 – 127.56) SqM

= 34.94 SqM

Area of rectangle (B B1 A2 A1)

= { Length(m) x width(m) }

= (11.50m × 12.50m)

= 143.75 SqM

**So, Area of Entry approach to retail outlet = (34.94 + 143.75) SqM = 178.69 SqM**

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

Area of rectangle (B1 C1 D2 A2)

= { Length(m) x width(m) }

= (12.0m x 12.50m) SqM

= 150.0 SqM

**Area of Exit approach from retail outlet**

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

Area of Curve Polygon(C D D1)

= $\{(r1 \times r2) - (\pi \times r1 \times r2)/4\}$

= $\{(13.0m \times 12.50m) - (3.14 \times 13.0 \times 12.50/4)\}$

= (162.50 – 127.56) SqM

= 34.94 SqM

Area of rectangle (C C1 D2 D1)

= { Length(m) x width(m) }

= (11.50m × 12.50m)

= 143.75 SqM

**So, Area of Exit approach from retail outlet = (34.94 + 143.75) SqM = 178.69 SqM**

**Total Proposed Protected Forest Area for Diversion**

= 178.69 SqM (Entry) + 150.0 SqM (Forest Area B/W Entry & Exit) + 178.69 SqM (Exit)

= 507.38 Sqm

= 0.050738 Ha.

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

= Retailoutlet Private Land area = (35.0m x 10.0m) = 350.0 SqM

Non forest land area = (35.0m x 45.0m) = 1575.0 SqM

So, Total non forest land area is = (1575.0 + 350.0) SqM = 1925.0 SqM = 0.1925 Ha.

25-4-22

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इण्डियन ऑयल कारपोरेशन लिमिटेड/Indian Oil
**(Authorized Signatory)**
**Indian Oil Corporation Ltd.**
**Divisional Office Gorakhpur**