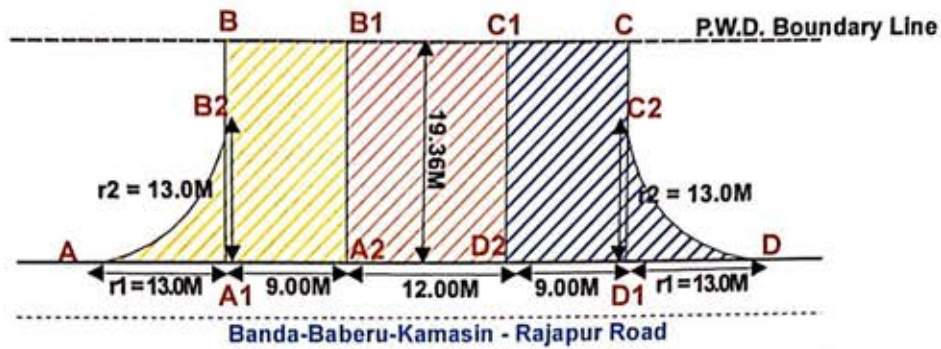


Area Calculation Sheet as per Approved Layout Plan

PROPOSED PROTECTED FOREST LAND TO BE DIVERTED FOR ENTRY/EXIT APPROACH TO IOCL RETAIL OUTLET ON BANDA-BABERU-KAMASIN-RAJAPUR ROAD (SH-92), IN KM NO. 2.00 (CH.NO.1.470 TO 1.500 RHS), AT GATA NO - 708, VILLAGE:- PALHARI, TEHSIL:- BANDA, DISTRICT:- BANDA (U.P.)



Area of Entry approach to retail outlet

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

$$\begin{aligned} \text{Area of Curve Polygon(A B2 A1)} &= \{ (r1 \times r2) - (\pi \times r1 \times r2)/4 \} \\ &= \{ (13.0m \times 13.0m) - (3.14 \times 13.0 \times 13.0/4) \} \\ &= 169.0 \text{ SqM} - 132.66 \text{ SqM} \\ &= 36.34 \text{ SqM} \end{aligned}$$

$$\begin{aligned} \text{Area of rectangle (B B1 A2 A1)} &= \{ \text{Length(m)} \times \text{width(m)} \} \\ &= (9.00m \times 19.36m) \\ &= 174.24 \text{ SqM} \end{aligned}$$

So, Area of Entry approach to retail outlet = (36.34 + 174.24) SqM = 210.58 SqM

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

$$\begin{aligned} \text{Area of rectangle (B1 C1 D2 A2)} &= \{ \text{Length(m)} \times \text{width(m)} \} \\ &= (12.0m \times 19.36m) \text{ SqM} \\ &= 232.32 \text{ SqM} \end{aligned}$$

Area of Exit approach from retail outlet

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

$$\begin{aligned} \text{Area of Curve Polygon(C2 D D1)} &= \{ (r1 \times r2) - (\pi \times r1 \times r2)/4 \} \\ &= \{ (13.0m \times 13.0m) - (3.14 \times 13.0 \times 13.0/4) \} \\ &= 169.0 \text{ SqM} - 132.66 \text{ SqM} \\ &= 36.34 \text{ SqM} \end{aligned}$$

$$\begin{aligned} \text{Area of rectangle (C C1 D2 D1)} &= \{ \text{Length(m)} \times \text{width(m)} \} \\ &= (9.00m \times 19.36m) \\ &= 174.24 \text{ SqM} \end{aligned}$$

So, Area of Exit approach from retail outlet = (36.34 + 174.24) SqM = 210.58 SqM

Total Proposed Protected Forest Area for Diversion

$$\begin{aligned} &= 210.58 \text{ SqM (Entry)} + 232.32 \text{ SqM (Forest Area B/W Entry \& Exit)} + 210.58 \text{ SqM (Exit)} \\ &= 653.48 \text{ SqM} = 0.065348 \text{ Ha.} \end{aligned}$$

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

$$= \text{Private Land area} = (30.0m \times 30.0m) = 900.0 \text{ SqM} = 0.09 \text{ Ha.}$$

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प्रबंधक (आवक) / Manager (In-charge)
(Authorized Signatory)
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