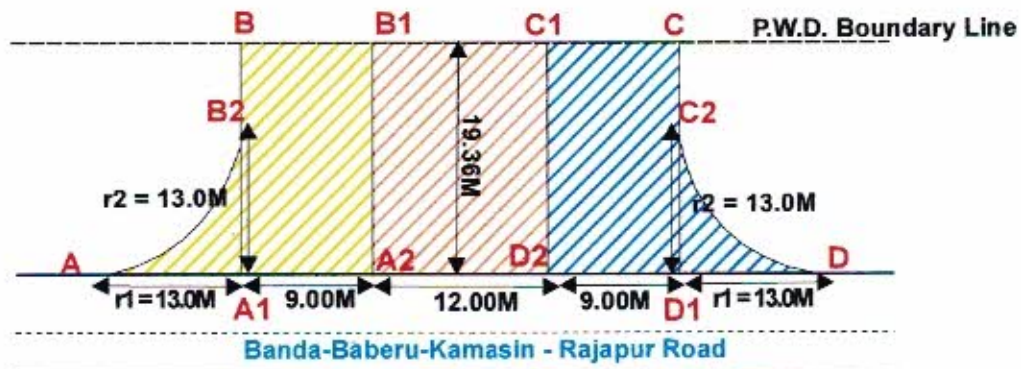


Area Calculation Sheet as per Approved Layout Plan

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)

Area of Curve Polygon(A B2 A1)

$$= \{ (r_1 \times r_2) - (\pi \times r_1 \times r_2) / 4 \}$$

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

$$= 169.0 \text{ SqM} - 132.66 \text{ SqM}$$

$$= 36.34 \text{ SqM}$$

Area of rectangle (B B1 A2 A1)

$$= \{ \text{Length(m)} \times \text{width(m)} \}$$

$$= (9.00\text{m} \times 19.36\text{m})$$

$$= 174.24 \text{ SqM}$$

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)

Area of rectangle (B1 C1 D2 A2)

$$= \{ \text{Length(m)} \times \text{width(m)} \}$$

$$= (12.0\text{m} \times 19.36\text{m}) \text{ SqM}$$

$$= 232.32 \text{ SqM}$$

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)

$$= \{ (r_1 \times r_2) - (\pi \times r_1 \times r_2) / 4 \}$$

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

$$= 169.0 \text{ SqM} - 132.66 \text{ SqM}$$

$$= 36.34 \text{ SqM}$$

Area of rectangle (C C1 D2 D1)

$$= \{ \text{Length(m)} \times \text{width(m)} \}$$

$$= (9.00\text{m} \times 19.36\text{m})$$

$$= 174.24 \text{ SqM}$$

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

Total Proposed Protected Forest Area for Diversion

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

$$= 653.48 \text{ Sqm} = 0.065348 \text{ Ha.}$$

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

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

प्रभागीय वन अधिकारी
बँदा वन प्रभाग, बँदा

एस०एम० त्रिपाठी / S.M. Tripathi
प्रबंधक (विक्रय) / Manager (Sales)
(Authorized Signatory)
Indian Oil Corporation Limited (I.O.C.)
Indian Oil Corporation Limited (I.O.C.)
Divisional Office Allahabad