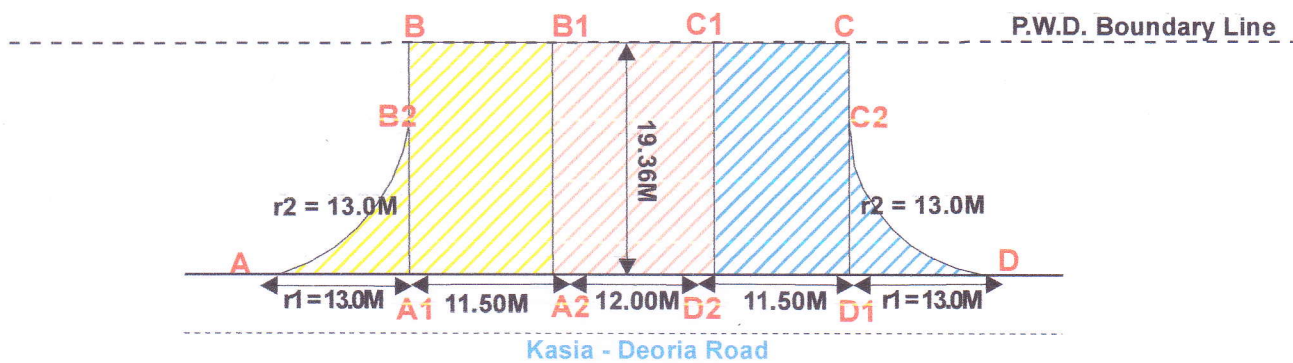


Area Calculation Sheet as per Approved Layout Plan

PROPOSED PROTECTED FOREST LAND TO BE DIVERTED FOR ENTRY/EXIT APPROACH TO HINDUSTAN PETROLEUM CORPORATION LIMITED RETAIL OUTLET ON DEORIA – KASIA - PADRAUNA ROAD (SH-79) IN KM. NO. 15.0 (CH. NO. 14.03, RHS) AT GATA NO.- 908, VILLAGE:- KONHWALIYA T. BHAISADAB, TEHSIL:- DEORIA, DISTRICT:- DEORIA (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)

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

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

$$= (169.0 - 132.665) \text{ SqM}$$

$$= 36.34 \text{ SqM}$$

Area of rectangle (B B1 A2 A1)

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

$$= (11.50m \times 19.36m)$$

$$= 222.64 \text{ SqM}$$

So, Area of Entry approach to retail outlet = (36.34 + 222.64) SqM = 258.98 SqM

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

Area of rectangle (B1 C1 D2 A2)

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

$$= (12.00m \times 19.36m) \text{ SqM}$$

$$= 232.32 \text{ SqM}$$

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)

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

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

$$= (169.0 - 132.665) \text{ SqM}$$

$$= 36.34 \text{ SqM}$$

Area of rectangle (C C1 D2 D1)

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

$$= (11.50m \times 19.36m)$$

$$= 222.64 \text{ SqM}$$

So, Area of Exit approach from retail outlet = (36.34 + 222.64) SqM = 258.98 SqM

Total Proposed Protected Forest Area for Diversion

$$= 258.98 \text{ SqM (Entry)} + 232.32 \text{ SqM (Forest Area B/W Entry \& Exit)} + 258.98 \text{ SqM (Exit)}$$

$$= 750.28 \text{ Sqm}$$

$$= 0.075028 \text{ Ha.}$$

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

$$= \text{Retailoutlet Private Land area} = \text{area of parallelogram} = \{ \text{base(m)} \times \text{height(m)} \}$$

$$= (35.0m \times 35.0m) = 1225.0 \text{ SqM}$$

$$= 0.1225 \text{ Ha.}$$

3/8/21
Ashish Kumar Sharma
 (Authorized Signatory)

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Gorakhpur Retail Regional Office
 Ashish Kumar Sharma
 Duly Constituted Attorney
 Hindustan Petroleum Corporation Limited