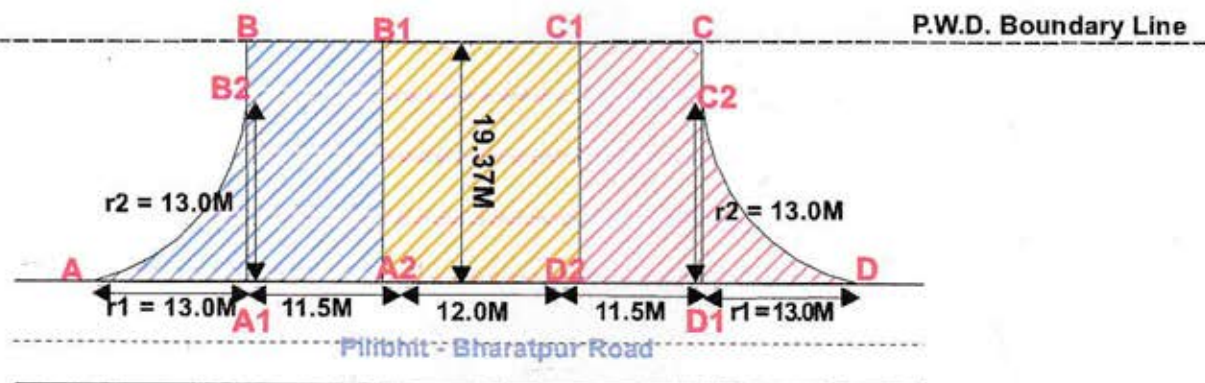


## Area Calculation Sheet as per Approved Layout Plan

**PROPOSED PROTECTED FOREST LAND TO BE DIVERTED FOR ENTRY/EXIT APPROACH TO ALREADY OPERATING ESSAR OIL LIMITED (NAYARA ENERGY LIMITED) RETAIL OUTLET ON PILIBHIT-BHARATPUR ROAD (SH-33) IN KM. NO.-234 (CH NO.- 233.155, LHS) AT KHASRA NO. 165KA (PART OF KHASRA NO. 165) & 166, VILLAGE:- NANGLA SHISHAM, TEHSIL:- HATHRAS, DISTRICT:- HATHRAS (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)

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

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

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

$$= 36.34 \text{ SqM}$$

Area of rectangle (B B1 A2 A1)

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

$$= (19.37\text{m} \times 9.0\text{m})$$

$$= 174.33 \text{ SqM}$$

**So, Area of Entry approach to retail outlet = (36.34 + 174.33) SqM = 210.67 SqM**

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

Area of rectangle (B1 C1 D2 A2)

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

$$= (12.0\text{m} \times 19.37\text{m}) \text{ SqM}$$

$$= 232.44 \text{ SqM}$$

### 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)

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

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

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

$$= 36.34 \text{ SqM}$$

Area of rectangle (C C1 D2 D1)

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

$$= (19.37\text{m} \times 9.0\text{m})$$

$$= 174.33 \text{ SqM}$$

**So, Area of Exit approach from retail outlet = (36.34 + 174.33) SqM = 210.67 SqM**

### Total Proposed Protected Forest Area for Diversion

$$= 210.67 \text{ SqM (Entry)} + 232.44 \text{ SqM (Forest Area B/W Entry \& Exit)} + 210.67 \text{ SqM (Exit)}$$

$$= 653.78 \text{ Sqm} = 0.065378 \text{ Ha.}$$

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

= Private Land area = area of square shape plot = {side (m) x side (m)}

$$= (30.0\text{m} \times 30.0\text{m}) = 900.0 \text{ SqM}$$

$$= 0.09 \text{ Ha.}$$

For NAYARA ENERGY LIMITED

Authorized Signatory

(Authorized Signatory)

Essar Oil Limited  
(Nayara Energy Limited)  
Divisional Office Noida