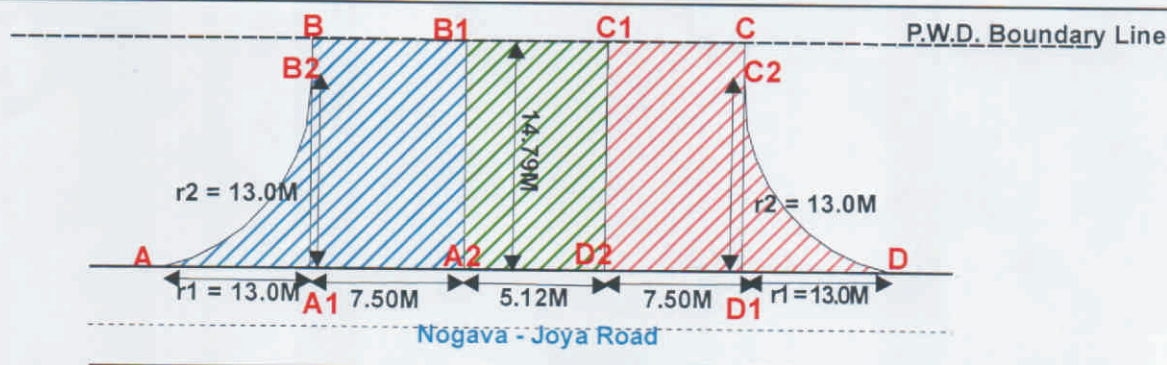


## Area Calculation Sheet as per Approved Layout Plan

**PROPOSED PROTECTED FOREST LAND TO BE DIVERTED FOR ENTRY/EXIT APPROACH TO  
BPCL RETAIL OUTLET ON NAHTAUR - NOORPUR - AMROHA - JOYA ROAD (SH-77), IN  
KM NO. 53 (CH. NO. 52.421 LHS), AT KHASRA NO - 2958/1,2 (PART OF),  
TEHSIL:- AMROHA, DISTRICT:- AMROHA (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)

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

$$= (7.50\text{m} \times 14.79\text{m})$$

$$= 110.925 \text{ SqM}$$

**So, Area of Entry approach to retail outlet = (36.34 + 110.925) SqM = 147.265 SqM**

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

Area of rectangle (B1 C1 D2 A2)

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

$$= (5.12\text{m} \times 14.79\text{m}) \text{ SqM}$$

$$= 75.7248 \text{ SqM}$$

**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)

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

$$= (7.50\text{m} \times 14.79\text{m})$$

$$= 110.925 \text{ SqM}$$

**So, Area of Exit approach from retail outlet = (36.34 + 110.925) SqM = 147.265 SqM**

**Total Proposed Protected Forest Area for Diversion**

$$= 147.265 \text{ SqM (Entry)} + 75.7248 \text{ SqM (Forest Area B/W Entry \& Exit)} + 147.265 \text{ SqM (Exit)}$$

$$= 370.2548 \text{ Sqm} \approx 0.037025 \text{ Ha.}$$

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

$$= \text{Private Land area} = [\text{area of parallelogram} = \{ \text{base (m)} \times \text{height (m)} \} = (20.12\text{m} \times 28.61511\text{m}) = 575.736 \text{ SqM}] +$$

$$[\text{area of triangle} = \{ 1/2 \times \text{base} \times \text{height} \} = (1/2 \times 20.12\text{m} \times 4.4\text{m}) = 44.264 \text{ SqM}]$$

$$\text{So, total Private land area} = (575.736 + 44.264) \text{ SqM} = 620.0 \text{ SqM} = 0.062 \text{ Ha.}$$

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19-8-20  
कुमार अविनाश  
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(Authorized Signatory)

Bharat Petroleum Corporation Ltd.  
Meerut Territory