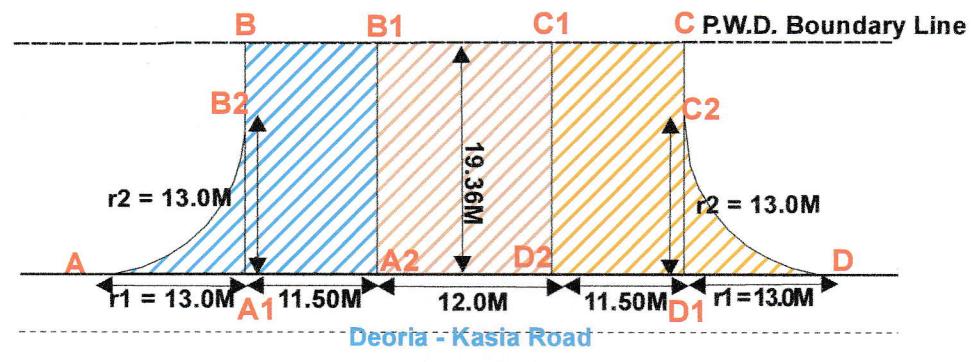


## Area Calculation Sheet as per Approved Layout Plan

**PROPOSED PROTECTED FOREST LAND TO BE DIVERTED FOR ENTRY/EXIT APPROACH  
TO BPCL RETAIL OUTLET ON DEORIA - KASIA ROAD (SH-79) IN KM NO. 19 (CH. NO.  
18.620 RHS), AT GATA NO. – 166, VILLAGE:- SIRSIA PATTI HUSEN,  
TEHSIL:- DEORIA, DISTRICT:- DEORIA (U.P.)**



### **Area of Entry approach to retail outlet**

$$= \text{Area of Curve Polygon}(A B2 A1) + \text{Area of rectangle}(B B1 A2 A1)$$

$$\begin{aligned} & \text{Area of Curve Polygon}(A B2 A1) \\ &= \{(r_1 \times r_2) - (\pi \times r_1 \times r_2)/4\} \\ &= \{(13.0m \times 13.0m) - (3.14 \times 13.0 \times 13.0/4)\} \\ &= (169.0 - 132.665) \text{ SqM} \\ &= 36.34 \text{ SqM} \end{aligned}$$

$$\begin{aligned} & \text{Area of rectangle } (B B1 A2 A1) \\ &= \{ \text{Length(m)} \times \text{width(m)} \} \\ &= (11.50m \times 19.36m) \\ &= 222.64 \text{ SqM} \end{aligned}$$

$$\text{So, Area of Entry approach to retail outlet} = (36.34 + 222.64) \text{ SqM} = 258.98 \text{ SqM}$$

### **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**

$$= \text{Area of Curve Polygon}(C2 D D1) + \text{Area of rectangle}(C C1 D2 D1)$$

$$\begin{aligned} & \text{Area of Curve Polygon}(C2 D D1) \\ &= \{(r_1 \times r_2) - (\pi \times r_1 \times r_2)/4\} \\ &= \{(13.0m \times 13.0m) - (3.14 \times 13.0 \times 13.0/4)\} \\ &= (169.0 - 132.665) \text{ SqM} \\ &= 36.34 \text{ SqM} \end{aligned}$$

$$\begin{aligned} & \text{Area of rectangle } (C C1 D2 D1) \\ &= \{ \text{Length(m)} \times \text{width(m)} \} \\ &= (11.50m \times 19.36m) \\ &= 222.64 \text{ SqM} \end{aligned}$$

$$\text{So, Area of Exit approach from retail outlet} = (36.34 + 222.64) \text{ SqM} = 258.98 \text{ SqM}$$

### **Total Proposed Protected Forest Area for Diversion**

$$\begin{aligned} &= 258.98 \text{ SqM (Entry)} + 232.32 \text{ SqM (Forest Area B/W Entry & Exit)} + 258.98 \text{ SqM (Exit)} \\ &= 750.28 \text{ Sqm} = 0.075028 \text{ Ha.} \end{aligned}$$

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

$$\begin{aligned} & \text{Private Land area} = \text{area of parallelogram BCHI} = \\ &= \text{base (m)} \times \text{height (m)} = (35.0m \times 35.0m) = 1225.0 \text{ SqM} = 0.1225 \text{ Ha.} \end{aligned}$$

*Vikas Srivastava*  
Bharat Petroleum Corporation Ltd.

*08/10/20*  
Constituted Attorney  
(Authorized Signatory)

*Pranod Kumar*  
TERRITORY ENGINEER

Bharat Petroleum Corporation Ltd.  
Gorakhpur Territory