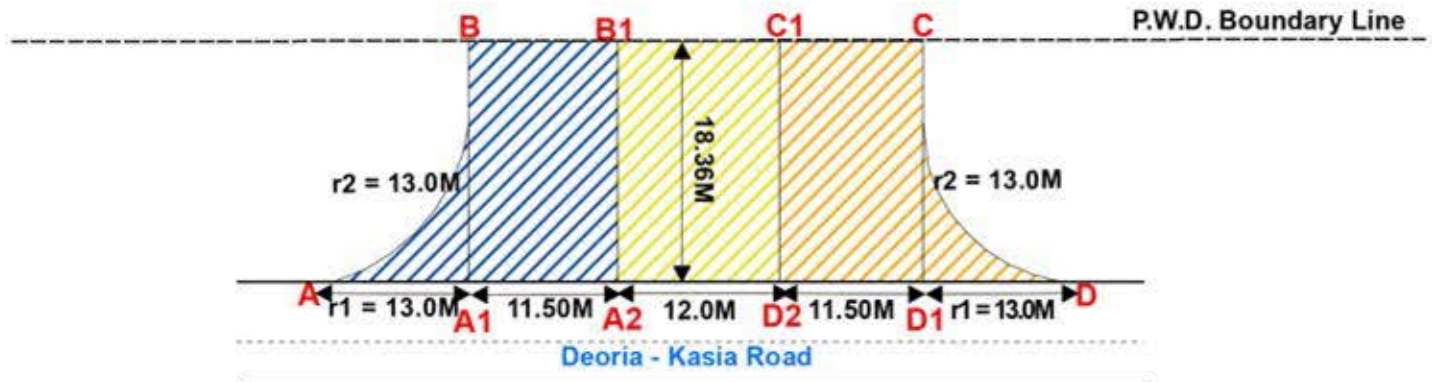


## Area Calculation Sheet as per Approved Layout Plan

**PROPOSED PROTECTED FOREST LAND TO BE DIVERTED FOR ENTRY/EXIT APPROACH TO BHARAT PETROLEUM CORPORATION LIMITED RETAIL OUTLET ON DEORIA TO KASIA ROAD (SH-79) IN KM. NO. 16 (LHS) AT KHASRA NO.- 1034, VILLAGE:- SIRWANIYA, TEHSIL:- DEORIA, DISTRICT:- DEORIA (U.P.)**



### Area of Entry approach to retail outlet

= Area of Curve Polygon(A B A1) + Area of rectangle (B B1 A2 A1)

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

$$\begin{aligned} \text{Area of rectangle (B B1 A2 A1)} &= \{ \text{Length(m)} \times \text{width(m)} \} \\ &= (11.50\text{m} \times 18.36\text{m}) \\ &= 211.14 \text{ SqM} \end{aligned}$$

**So, Area of Entry approach to retail outlet = (36.34 + 211.14) SqM = 247.48 SqM**

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

$$\begin{aligned} \text{Area of rectangle (B1 C1 D2 A2)} &= \{ \text{Length(m)} \times \text{width(m)} \} \\ &= (12.0\text{m} \times 18.36\text{m}) \text{ SqM} \\ &= 220.32 \text{ SqM} \end{aligned}$$

### Area of Exit approach from retail outlet

= Area of Curve Polygon(C D D1) + Area of rectangle (C C1 D2 D1)

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

$$\begin{aligned} \text{Area of rectangle (C C1 D2 D1)} &= \{ \text{Length(m)} \times \text{width(m)} \} \\ &= (11.50\text{m} \times 18.36\text{m}) \\ &= 211.14 \text{ SqM} \end{aligned}$$

**So, Area of Exit approach from retail outlet = (36.34 + 211.14) SqM = 247.48 SqM**

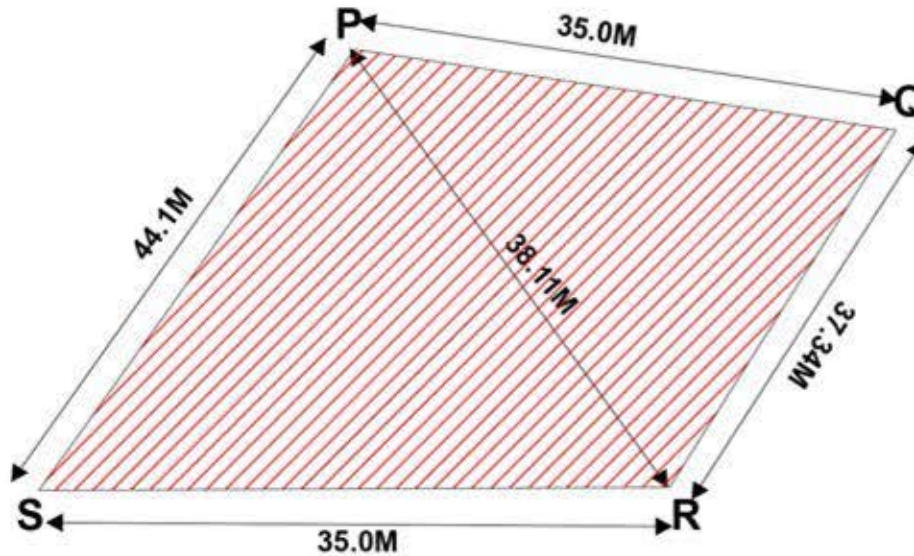
### Total Proposed Protected Forest Area for Diversion

$$\begin{aligned} &= 247.48 \text{ SqM (Entry)} + 220.32 \text{ SqM (Forest Area B/W Entry \& Exit)} + 247.48 \text{ SqM (Exit)} \\ &= 715.28 \text{ Sqm} \approx 0.0715 \text{ Ha.} \end{aligned}$$

*Rajesh*  
*Rajesh* 1/9/22  
(Authorized Signatory)  
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Bharat Petroleum Corporation Limited  
Gorakhpur Territory Retail  
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**Area Calculation Sheet as per Approved Layout Plan**

**PROPOSED PROTECTED FOREST LAND TO BE DIVERTED FOR ENTRY/EXIT APPROACH TO BHARAT PETROLEUM CORPORATION LIMITED RETAIL OUTLET ON DEORIA TO KASIA ROAD (SH-79) IN KM. NO. 16 (LHS) AT KHASRA NO.- 1034, VILLAGE:- SIRWANIYA, TEHSIL:- DEORIA, DISTRICT:- DEORIA (U.P.)**



Total Area of Non-Forest Land as per Layout Plan  
= area of retail outlet plot PQRS=  
[Area of triangle PSR + Area of triangle PQR]

area of triangle =  $\sqrt{S(S-a)(S-b)(S-c)}$  ;  
where  $S = (a+b+c)/2$  and a, b and c are sides of a triangle

Area of triangle PSR =  $\sqrt{58.585(23.585)(14.485)(20.515)}$   
 $\approx 640.78 \text{ SqM}$

Area of triangle PQR =  $\sqrt{55.2(20.2)(17.86)(17.14)}$   
 $\approx 584.24 \text{ SqM}$

So, total area of Private Land Land is =  $(640.78 + 584.24) \text{ SqM}$   
=  $1225.02 \text{ SqM}$   
 $\approx 0.1225 \text{ Ha.}$

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