

## Area Calculation Sheet as per Approved Layout Plan

**Proposed Protected Forest Land to be Diverted For Entry/Exit of HPCL Retail Outlet  
On Lucknow – Gorakhpur (Ayodhya – Basti) Road NH-27 (Old NH-28), In Km. No.  
167, (CH. No. 166.102, LHS), At Khasra No.- 381, Village- Badhar Kala,  
Tehsil – Harraiya, District – Basti (Uttar Pradesh)**

### **Entry Area approach to Retail Outlet**

$$\begin{aligned} &= A A_1 A_2 + A_1 A_2 A_3 A_4 + A_3 A_4 B_5 + A_4 B_5 A_5 + B_4 B_5 A_5 + B_3 B_4 A_5 + B_2 B_3 B_4 + \\ &B B_2 B_3 + B B_1 B_2 \\ &= \{1/2 \times (52.0m \times 5.5m)\} + (10.311091m \times 5.5m) + \{1/2 \times (9.808m \times 5.5m)\} + \{1/2 \times (7.153372m \times \\ &5.04m)\} + \{1/2 \times (5.74716m \times 7.119m)\} + \{1/2 \times (8.715661m \times 5.402m)\} + \{1/2 \times (6.82573m \times \\ &11.568m)\} + \{1/2 \times (11.18269m \times 5.4021m)\} + \{1/2 \times (6.290371m \times 13.5m)\} \\ &= 143.0 \text{ SqM} + 56.711 \text{ SqM} + 26.972 \text{ SqM} + 18.027 \text{ SqM} + 20.457 \text{ SqM} + 23.541 \text{ SqM} + \\ &39.48 \text{ SqM} + 30.205 \text{ SqM} + 42.46 \text{ SqM} \\ &= 400.853 \text{ SqM} \end{aligned}$$

### **Area in Between Entry & Exit (Separator)**

$$\begin{aligned} &= A_1 E B_1 + B_1 C_1 E F + C_1 F D_1 \\ &= [(31.49964m \times 19.0m) - \{3.14 \times (31.49964m \times 19.0m)/4\}] + (23.0m \times 19.0m) + (19.0m \times \\ &83.50013m) - \{3.14 \times (19.0m \times 83.50013m)/4\}] \\ &= 128.676 \text{ SqM} + 437.0 \text{ SqM} + 341.098 \text{ SqM} \\ &= 906.774 \text{ SqM} \end{aligned}$$

### **Area of Exit approach from Retail Outlet**

$$\begin{aligned} &= C C_1 C_2 + C C_2 C_3 + C_2 C_3 C_4 + C_3 C_4 D_3 + D_3 D_4 C_4 + D_1 D_2 D_3 D_4 + D D_1 D_2 \\ &= \{1/2 \times (7.802223m \times 13.5m)\} + \{1/2 \times (7.842078m \times 5.2152m)\} + \{1/2 \times (7.796484m \times \\ &7.223m)\} + \{1/2 \times (5.46083m \times 6.892m)\} + \{1/2 \times (6.59382m \times 5.5m)\} + (63.030728m \times 5.5m) \\ &+ \{1/2 \times (30.0m \times 5.5m)\} \\ &= 52.665 \text{ SqM} + 20.449 \text{ SqM} + 28.157 \text{ SqM} + 18.818 \text{ SqM} + 18.133 \text{ SqM} + 346.669 \text{ SqM} + \\ &82.5 \text{ SqM} \\ &= 567.391 \text{ SqM} \end{aligned}$$

### **Total Protected Forest Area Proposed to be Diverted**

$$\begin{aligned} &400.853 \text{ (Entry Area) SqM} + 906.774 \text{ (Separator) SqM} + 567.391 \text{ (Exit Area) SqM} \\ &= 1875.018 \approx \mathbf{0.187502 \text{ Ha.}} \end{aligned}$$

### **Total Area of Non Forest Land as per Layout Plan**

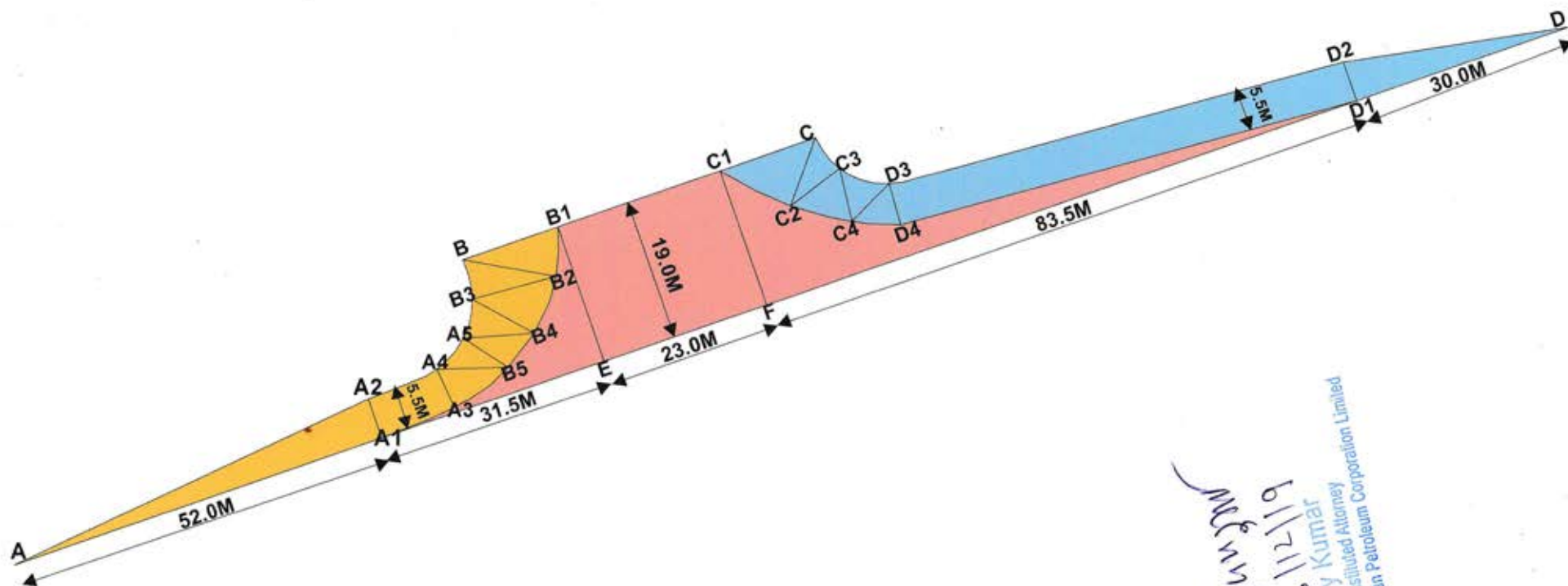
$$\begin{aligned} &= (50.0m \times 50.0m) = 2500.0 \text{ SqM} \\ &= \mathbf{0.25 \text{ Ha.}} \end{aligned}$$

*Signature*  
16/12/19

(Authorized Signatory)

**Hindustan Petroleum Corporation Limited  
Gorakhpur (Retail) Regional Office**

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Sanjay Kumar  
Duly Constituted Attorney  
Hindustan Petroleum Corporation Limited

(Authorized Signatory)

Hindustan Petroleum Corporation Limited  
Gorakhpur (Retail) Regional Office