

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 UTRAULA-AYODHYA-PRAYAGRAJ ROAD (SH-09) IN KM. NO. 5 (CH. NO. 4.200, LHS) AT GATA NO.-325, VILLAGE: - IMILIYA BANGHUSRA, TEHSIL: - UTRAULA, DISTRICT: - BALRAMPUR (U.P.)



Area of Entry approach to retail outlet

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

$$\begin{aligned} \text{Area of Curve Polygon(A B A1)} &= \{ (r1 \times r2) - (\pi \times r1 \times r2) / 4 \} \\ &= \{ (13.0\text{m} \times 13.0\text{m}) - (3.14 \times 13.0 \times 13.0 / 4) \} \\ &= (169.0 - 132.665) \text{ SqM} \\ &= 36.34 \text{ SqM} \end{aligned}$$

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

So, Area of Entry approach to retail outlet = (36.34 + 222.64) SqM = 258.98 SqM

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

$$\begin{aligned} \text{Area of rectangle (B1 C1 D2 A2)} &= \{ \text{Length(m)} \times \text{width(m)} \} \\ &= (12.0\text{m} \times 19.36\text{m}) \text{ SqM} \\ &= 232.32 \text{ SqM} \end{aligned}$$

Area of Exit approach from retail outlet

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

$$\begin{aligned} \text{Area of Curve Polygon(C D D1)} &= \{ (r1 \times r2) - (\pi \times r1 \times r2) / 4 \} \\ &= \{ (13.0\text{m} \times 13.0\text{m}) - (3.14 \times 13.0 \times 13.0 / 4) \} \\ &= (169.0 - 132.665) \text{ SqM} \\ &= 36.34 \text{ SqM} \end{aligned}$$

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

So, Area of Exit approach from retail outlet = (36.34 + 222.64) SqM = 258.98 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

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

6/5/22

 Territory Manager (Retail) Gonda
 Bharat Petroleum Corporation Limited
(Authorized Signatory)

**Bharat Petroleum Corporation Ltd.
Gonda Retail Territory**