

Area calculation

(Protected Forest Area proposed for diversion for non- forestry use)

Proposed HPCL retail Outlet on Farrukhabad – Fatehgarh– Gursahaiganj Road, SH-29A ,
Km.9 (CH. 8.053) Khasra No. 634 वि , Village – Bhulanpur Chirpura,
Pargana– Bhojpur, Tehsil -Sadar, District-Farrukhabad(U.P)

Area Calculation Measurement on basis of Georeferenced Map & Layout Plan.

$$\begin{aligned}\text{Entry to petrol Pump} &= \text{Curve Polygon(ABA1)+Polygon (BB1A2A1)} \\ &= 36.34+(19.36 \times 12)\text{sqm} \\ &= (36.34+232.32)\text{sqm} \\ &= 268.66\text{sqm}\end{aligned}$$

$$\begin{aligned}\text{Curve Radius} &= 13 \times 13 = 169 \\ \frac{\pi r^2}{4} &= 3.14 \times 13 \times 13 / 4 \\ &= 132.66\end{aligned}$$

$$\begin{aligned}\text{Area of Curve Polygon} &= 169 - 132.66 \\ &= 36.34\text{SQM}\end{aligned}$$

$$\begin{aligned}\text{Protected Forest land B/W Entry and Exit} &= \text{Polygon (B1C1D2A2)} \\ &= (19.36 \times 12.00)\text{sqm} \\ &= 232.32\text{sqm}\end{aligned}$$


$$\begin{aligned}\text{Exit from Petrol Pump} &= \text{Polygon (C1CD1D2) + Polygon Curve (CDD1)} \\ &= 36.34+(19.36 \times 12)\text{sqm} \\ &= (36.34+232.32)\text{sqm} \\ &= 268.66\text{sqm}\end{aligned}$$

Total Proposed Protected Forest Area for Diversion

$$\begin{aligned}&= 268.66\text{sqm (Entry)} + 232.32\text{sqm (Forest Area B/W Entry \& Exit)} + 268.66\text{sqm (Exit)} \\ &= (268.66+232.32+268.66)\text{sqm} \\ &= 769.64 \text{ sqm} \\ &= 0.076964 \text{ Ha}\end{aligned}$$

$$\begin{aligned}\text{Non – Forest Area} &= 36 \times 36\text{m} \\ &= 1296\text{Sqm} \\ &= 0.1296\text{Ha}\end{aligned}$$

प्रतिस्वास्थ्य

 27/11/2010
(पी० के० उपायगम)
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