

## Area calculation

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

Proposed IOCL retail Outlet on Allahabad - Gorakhpur Road, SH-7 , (Allahabad – Mungra badshahpur) IN Km. 45 (CH. 200-400 LHS ) Arazi Gata No. 2638 , Village – Mathiya/Bhikhpur , Tehsil – Machhali Shahar , District-Jaunpur(U.P)

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

$$\begin{aligned}\text{Entry to petrol Pump} &= \text{Curve Polygon(ABA1)+Polygon (BB1A2A1)} \\ &= 36.34+(19.50 \times 12)\text{sqm} \\ &= (36.34+234)\text{sqm} \\ &= 270.34\text{sqm}\end{aligned}$$

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

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


$$\begin{aligned}\text{Protected Forest land B/W Entry and Exit} &= \text{Polygon (B1C1D2A2)} \\ &= (19.5 \times 11)\text{sqm} \\ &= 214.5\text{sqm}\end{aligned}$$

$$\begin{aligned}\text{Exit from Petrol Pump} &= \text{Polygon (C1CD1D2) + Polygon Curve (CDD1)} \\ &= 36.34+(19.50 \times 12)\text{sqm} \\ &= (36.34+234)\text{sqm} \\ &= 270.34\text{sqm}\end{aligned}$$

### Total Proposed Protected Forest Area for Diversion

$$\begin{aligned}&= 270.34\text{sqm (Entry)} + 214.5\text{sqm (Forest Area B/W Entry \& Exit)} + 270.34\text{sqm (Exit)} \\ &= (270.34 + 214.5 + 270.34)\text{sqm} \\ &= 755.18\text{ sqm} \\ &= 0.075518\text{ Ha}\end{aligned}$$

$$\begin{aligned}\text{Non – Forest Area} &= 35 \times 35\text{m} \\ &= 1225\text{Sqm} \\ &= 0.1225\text{ Ha}\end{aligned}$$

  
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