

Protected Forest Land Calculation Sheet

Forest Land proposed to be diverted for Exit/Entry Approach to Retail outlet on NH-2 (Allahabad-Handia-Varanasi) in km.224-225 RHS at Village;Abusa, Tehsil:Phulpur District: Allahabad

Area As per Approved Layout Plan.

Entry to Petrol Pump=Curve Polygon (ABA1) + Polygon (B B1 A2 A1)

$$= 36.34 + (30.03 \times 9) \text{sqm}$$

$$= (36.34 + 270.27) \text{sqm}$$

$$= 306.61 \text{sqm}$$

$$\text{Curve Radius} = 13 \times 13 = 169$$

$$\pi r^2 / 4 = 3.14 \times 13 \times 13 / 4$$

$$= 132.66$$

$$\text{Area of Curve Polygon} = 169 - 132.66$$

$$36.34 \text{SQM}$$

$$\text{Protected Forest Land B/W Entry /Exit} = \text{Polygon (B1 C1 D2 A2)} = (30.03 \times 12.0) \text{sqm}$$

$$\text{Protected Forest Land B/W Entry and Exit} = 360.36 \text{sqm}$$

$$\text{Exit from Petrol Pump} = \text{Polygon (C1 C D1 D2)} + \text{Polygon Curve (C D D1)}$$

$$= (30.03 \times 9 \text{sqm} + 36.34 \text{sqm})$$

$$= (270.27 + 36.34) \text{sqm}$$

$$\text{Protected Forest Area for Exit from Petrol Pump} = 306.61 \text{sqm}$$

$$\text{Total Proposed Protected Forest Area for Diversion}$$

$$= 306.61 \text{sqm (Entry)} + 360.36 \text{sqm (Forest Area B/W Entry \& Exit)} + 306.61 \text{sqm (Exit)}$$

$$= (306.61 + 360.36 + 306.61) \text{sqm}$$

$$= 973.58 \text{sqm}$$


$$\text{Forest Area For Diversion} = 0.097358 \text{Ha}$$

$$\text{Non Forest Land is } = 30 \text{m} \times 30 \text{m} = 900 \text{sqm}$$


$$= 0.09 \text{Ha.}$$


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क. वा. प्रमाण इलाहाबाद


Chief Regional Manager
HPCL, Regional Office, Kanpur

विनय कुमार सिंह
क्षेत्रीय बिक्री प्रबन्धक
इलाहाबाद बिक्री क्षेत्र
इलाहाबाद


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इलाहाबाद