

AREA CALCULATION SHEETAS PER APPROVED LAYOUT PLAN

PROPOSED PROTECTED FOREST LAND TO BE DIVERTED FOR ENTRY/EXIT APPROACH TO INDIAN OIL CORPORATION LIMITED RETAIL OUTLET ON LUCKNOW-KANPUR ROAD NH-27 (OLD NH-25) IN KM. NO.- 36 TO 37 (CH. NO. 36.020 RHS) AT KHASRA NO.-489 & 490, VILLAGE:- KUSHAHRI, TEHSIL: - HASANGANJ, DISTRICT: -UNNAO (U.P.)

Entry Area approach to Retail Outlet

$$\begin{aligned} &= AA1A2 + A1A2A3A4 + A3A4B1F + BB1A3 \\ &= \{1/2 \times (15.0m \times 3.5m)\} + (41.9869m \times 3.5m) + (13.01315m \times 3.5m) + [(13.0m \times 12.05m) - \{3.14 \times (13.0m \times 12.05m)/4\}] \\ &= 26.25SqM + 146.954SqM + 45.546SqM + 33.68SqM \\ &= 252.43 SqM \end{aligned}$$

Area of Earthen Shoulder along Entry approach to Retail Outlet

$$\begin{aligned} &= GG1A2A + G1G2A3A2 + G2G3A3 \\ &= (15.0m \times 2.5m) + (42.0m \times 2.5m) + \{1/2 \times (11.0048m \times 2.5m)\} \\ &= 37.5 SqM + 105.0 SqM + 13.756SqM \\ &= 156.256SqM \end{aligned}$$

Area in Between Entry & Exit (Separator)

$$\begin{aligned} &= BCEF \\ &= (35.0m \times 15.55m) \\ &= 544.25SqM \end{aligned}$$

Area of Exit approach from Retail Outlet

$$\begin{aligned} &= DD1D2 + D1D2D3C2 + D3C2C1E + CC1C2 \\ &= \{1/2 \times (15.0m \times 3.5m)\} + (72.0m \times 5.5m) + (13.0m \times 3.5m) + [(13.0m \times 12.05m) - \{3.14 \times (13.0m \times 12.05m)/4\}] \\ &= 26.25SqM + 252.0SqM + 45.5SqM + 33.68SqM \\ &= 357.43SqM \end{aligned}$$

Area of Earthen Shoulder along Exit approach from Retail Outlet

$$\begin{aligned} &= HH1D2D + H1H2D2C2 + C2H2H3 \\ &= (15.0m \times 2.5m) + (72.0m \times 2.5m) + \{1/2 \times (10.8112m \times 2.5m)\} \\ &= 37.5SqM + 180.0 SqM + 13.514SqM \\ &= 231.014SqM \end{aligned}$$

Total Protected Forest Area Proposed to be Diverted

$$\begin{aligned} &= 252.43(\text{Entry Area}) SqM + 156.256(\text{Entry Earthen shoulder}) SqM + 544.25(\text{Separator}) SqM + \\ &357.43(\text{Exit Area}) SqM + 231.014(\text{Exit Earthen shoulder}) SqM \\ &= 1541.38SqM \\ &= \mathbf{0.154138 Ha.} \end{aligned}$$


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कानपुर सफ़्टवेयर कांस्ट्रक्शन प्लॉट कानपुर-208 020
Kanpur Divisional Office Panki, Kanpur-208 020

Total Area of Non Forest Land/Private Land as per Layout Plan

= area of retail outlet plot PQRS=

[Area of triangle PQR + Area of triangle PSR]

area of triangle = $\sqrt{S(S-a)(S-b)(S-c)}$;

where $S = (a+b+c)/2$ and a, b and c are sides of a triangle

Area of triangle PQR=

$$\sqrt{72.01(17.01) \times (37.01) \times (17.99)} = 903.07 \text{SqM}$$

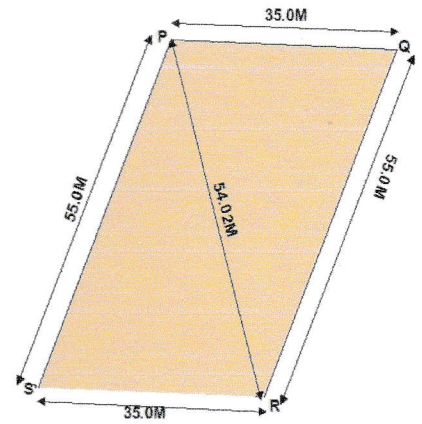
Area of triangle PSR =

$$\sqrt{72.01(17.01) \times (37.01) \times (17.99)} = 903.07 \text{SqM}$$

So, total area of Private Land is =

$$= (903.07 + 903.07) \text{SqM} \approx 1806.14 \text{SqM}$$

$\approx 0.1806 \text{ Ha.}$



(Authorized Signatory)

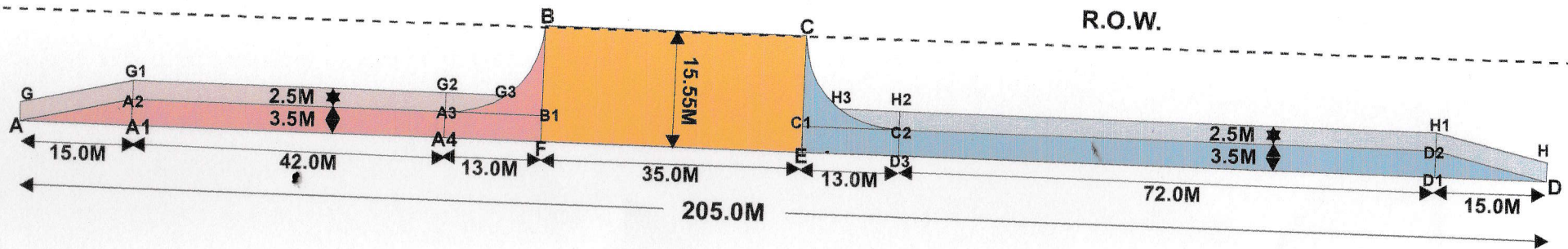
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27/6/22

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