

AREA CALCULATION SHEET AS PER APPROVED LAYOUT PLAN

PROPOSED PROTECTED FOREST LAND TO BE DIVERTED FOR ENTRY/EXIT APPROACH TO HINDUSTAN PETROLEUM CORPORATION LIMITED RETAIL OUTLET ON TULSIPUR-KOYLABASA ROAD (MDR), IN KM NO. 7 (CH. NO. 6.800, LHS), AT GATA NO-224, VILLAGE:-MADARHWA, TEHSIL:- TULSIPUR, DISTRICT:- BALRAMPUR (U.P.)

Entry Area approach to Retail Outlet

$$\begin{aligned} &= AA1A2 + A1A2A3 + A2A3A4 + A3A4B4 + B3B4A4 + B2B3A4 + B1B2A4 + BB1B2 \\ &= \{1/2 \times (61.5m \times 5.5m)\} + \{1/2 \times (7.228m \times 5.5m) + \{1/2 \times (5.79089m \times 6.8m)\} + \{1/2 \times (5.71406m \times 7.4m)\} + \{1/2 \times (8.62696m \times 4.6m)\} + \{1/2 \times (10.98978m \times 4.5m)\} + \{1/2 \times (5.54136m \times 11.8m)\} + \{1/2 \times (11.3334m \times 4.5m)\} \\ &= 169.125 \text{ SqM} + 19.877 \text{ SqM} + 19.689 \text{ SqM} + 21.142 \text{ SqM} + 19.842 \text{ SqM} + 24.727 \text{ SqM} + 32.694 \text{ SqM} + 25.5 \text{ SqM} \\ &= 332.596 \text{ SqM} \end{aligned}$$

Area of Earthen Shoulder along Entry approach to Retail Outlet

$$\begin{aligned} &= AA2G1G + G1A2B1 \\ &= (61.5m \times 2.25m) + \{1/2 \times (14.75912m \times 2.25m)\} \\ &= 138.375 \text{ SqM} + 16.604 \text{ SqM} \\ &= 154.979 \text{ SqM} \end{aligned}$$

Area in Between Entry & Exit (Separator)

$$\begin{aligned} &= A1FB + BCEF + D2EC \\ &= [20.0m \times 13.3m] - \{3.14 \times (20.0m \times 13.3m)/4\} + (12.0m \times 13.3m) + [\{(29.5m \times 13.3m) - \{3.14 \times (29.5m \times 13.3m)/4\}\} \\ &= 57.19 \text{ SqM} + 159.6 \text{ SqM} + 84.355 \text{ SqM} \\ &= 301.145 \text{ SqM} \end{aligned}$$

Area of Exit approach from Retail Outlet

$$\begin{aligned} &= DD1D3 + D1D2D3D4 + D2D4D5D6 + D5D6C5 + C4C5D6 + C3C4C5 + C1C3C4 + C1C2C3 + CC1C2 \\ &= \{1/2 \times (30.0m \times 5.5m)\} + (52.0m \times 5.5m) + (9.85946m \times 5.5m) + \{1/2 \times (8.13746m \times 5.5m)\} + \{1/2 \times (5.17816m \times 7.6m)\} + \{1/2 \times (5.45832m \times 8.3m)\} + \{1/2 \times (5.00136m \times 10.3m)\} + \{1/2 \times (4.92369m \times 10.3m)\} + \{1/2 \times (5.90172m \times 10.5m)\} \\ &= 82.5 \text{ SqM} + 286.0 \text{ SqM} + 54.227 \text{ SqM} + 22.378 \text{ SqM} + 19.677 \text{ SqM} + 22.652 \text{ SqM} + 25.757 \text{ SqM} + 25.357 \text{ SqM} + 30.984 \text{ SqM} \\ &= 569.532 \text{ SqM} \end{aligned}$$

Area of Earthen Shoulder along Exit approach from Retail Outlet

$$\begin{aligned} &= HH1D3D + H1H2D3D4 + H2H3D4D6 + H3D6C1 \\ &= (30.0m \times 2.25m) + (52.0m \times 2.25m) + (9.85645m \times 2.25m) + \{1/2 \times (12.08978m \times 2.25m)\} \\ &= 67.5 \text{ SqM} + 117.0 \text{ SqM} + 22.177 \text{ SqM} + 13.6 \text{ SqM} \\ &= 220.278 \text{ SqM} \end{aligned}$$

Ashish Kumar Sharma
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Duly Constituted Attorney
Hindustan Petroleum Corporation Limited

Total Protected Forest Area Proposed to be Diverted

= 332.596 (Entry Area) SqM + 154.979 (Entry Earthen shoulder) SqM + 301.145 (Separator) SqM +
569.532 (Exit Area) SqM + 220.278 (Exit Earthen shoulder) SqM
= 1578.53 SqM
= **0.157853 Ha.**

Total Area of Non-Forest Land as per Layout Plan

Private land area calculation =

Area of retail outlet plot = area of square = {side(m) x side(m)}

= (35.0m x 35.0m) = 1225.0 SqM

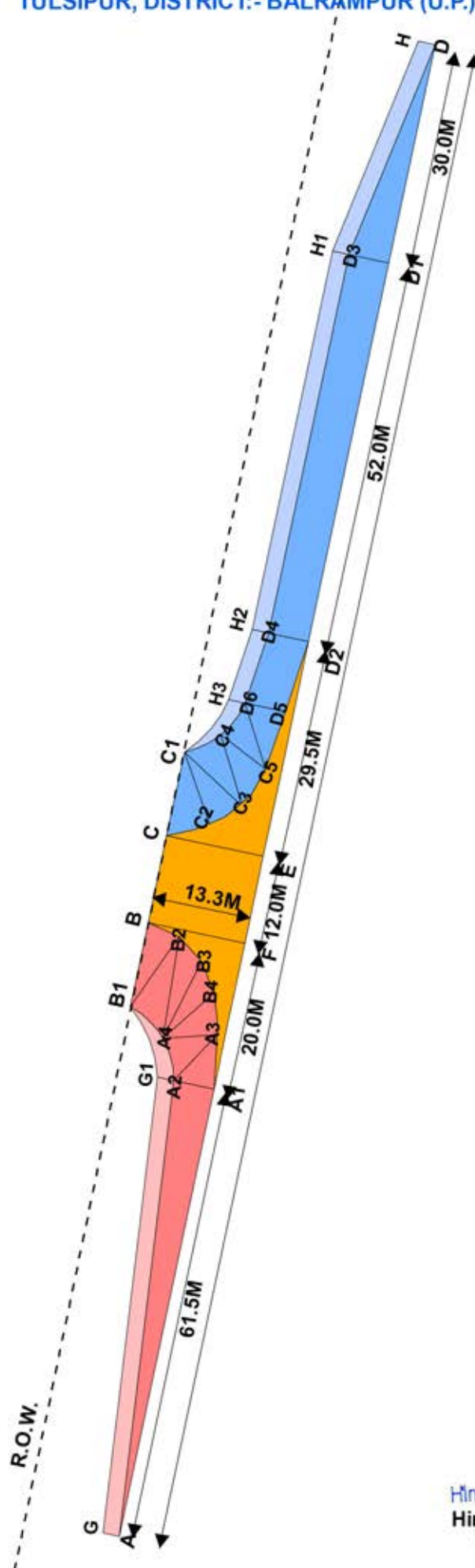
= **0.1225 Ha.**


Ashish Kumar Sharma
Duly Constituted Attorney
(Authorized Signatory)
Hindustan Petroleum Corporation Limited

Hindustan Petroleum Corporation Ltd.
Gorakhpur Retail Regional Office

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