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 LUCKNOW-GORAKHPUR ROAD NH-27 (OLD NH-28) IN KM NO. 152 (CH. NO. 151.564, LHS) AT KHASRA NO. – 1159, VILLAGE:- SHANKARPUR, TEHSIL:- HARRAIYA, DISTRICT:- BASTI (U.P.)

Entry Area approach to Retail Outlet

$= AA_1A_2 + A_1A_2A_3 + A_2A_3A_4 + BB_1A_4A_3$

$= \{1/2 \times (57.0m \times 5.5m)\} + \{1/2 \times (13.0m \times 5.5m) + \{1/2 \times (13.7967m \times 9.6m)\} + (11.61m \times 3.0m)\}$

$= 156.75 \text{ SqM} + 35.75 \text{ SqM} + 66.224 \text{ SqM} + 34.83 \text{ SqM}$

$= 293.554 \text{ SqM}$

Area of Earthen Shoulder along Entry approach to Retail Outlet

$= AA_2G_1G + G_1A_2A_4$

$= (57.0m \times 2.25m) + \{1/2 \times (17.44712m \times 2.25m)\}$

$= 128.25 \text{ SqM} + 19.628 \text{ SqM}$

$= 147.878 \text{ SqM}$

Area in Between Entry & Exit (Separator)

$= CC_1C_2B_3$

$= [1/2 \times (54.34m + 58.38m) \times 2.25m)]$

$= 126.814 \text{ SqM}$

Area of Exit approach from Retail Outlet

$= DD_1D_2 + D_1D_2C_2C_3$

$= \{1/2 \times (30.0m \times 5.5m)\} + [1/2 \times (8.8m + 5.5m) \times 58.2742m)]$

$= 82.5 \text{ SqM} + 416.66 \text{ SqM}$

$= 499.16 \text{ SqM}$

Area of Earthen Shoulder along Exit approach from Retail Outlet

$= HH_1D_2D + H_1H_2C_2D_2$

$= (30.0m \times 2.25m) + (59.216m \times 2.25m)$

$= 67.5 \text{ SqM} + 133.236 \text{ SqM}$

$= 200.736 \text{ SqM}$

Area of Proposed Service Road along Entry/Exit approach to Retail Outlet

$= BB_1B_2B_3 + C_2C_3B_2B_3$

$= (121.3798m \times 9.5m) + [1/2 \times (9.5m + 8.8m) \times 54.59126m)]$

$= 1153.108 \text{ SqM} + 499.51 \text{ SqM}$

$= 1652.618 \text{ SqM}$

17/5/22

Ashish Kumar Sharma
Duly Constituted Attorney
Hindustan Petroleum Corporation Limited

Total Protected Forest Area Proposed to be Diverted

= 293.554 (Entry Area) SqM + 147.878 (Entry Earthen shoulder) SqM + 126.814 (Separator) SqM + 499.16 (Exit Area) SqM + 200.736 (Exit Earthen shoulder) SqM + 1652.618 (Service Road) SqM

= 2920.76 SqM

= 0.292076 Ha.

Total Area of Non-Forest Land as per Layout Plan

Private land area calculation =

= area of rectangle shape plot = PQRS = {length(m) x width(m)}

= (42.0 x 48.0m) = 2016.0 SqM

Non Forest Land area calculation =

= SS1S2 + ST1S3S2 + T1U1Q3S3 + UU1Q3Q2 + QQ1Q2

= [(4.6m x 7.14m) - {3.14 x (4.6m x 7.14m)/4}] +

(11.50m x 7.14m) + (12.0m x 7.14m) + (11.50m x 7.14m) +

[(4.6m x 7.14m) - {3.14 x (4.6m x 7.14m)/4}]

= (7.06 + 82.11 + 85.68 + 82.11 + 7.06) SqM

= 264.02 SqM

So, total non-forest land is = (2016.0 + 264.02) SqM

= 2280.02 SqM

≈ 0.228 Ha.
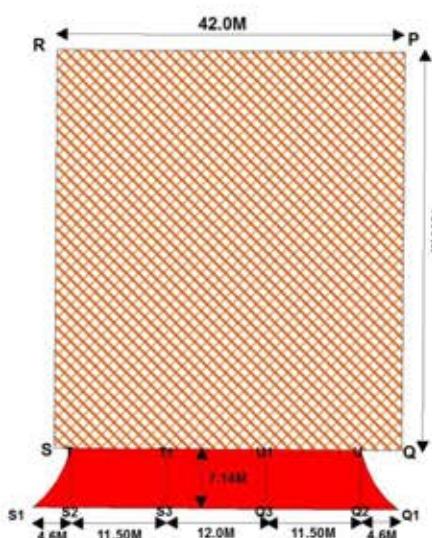
(Authorized Signatory)

Hindustan Petroleum Corporation Ltd.
Gorakhpur Retail Regional Office

17/5/22

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R.O.W.

G   G1   A4
A   A2   B
57.0M   A1   16.0M   A3   B1
9.5M
121.3M   B3   C   9.5M   C1   H2
B2   8.8M   C2
338.0M   54.8M   C3   H1   D2
58.8M   30.0M   D1   H   D
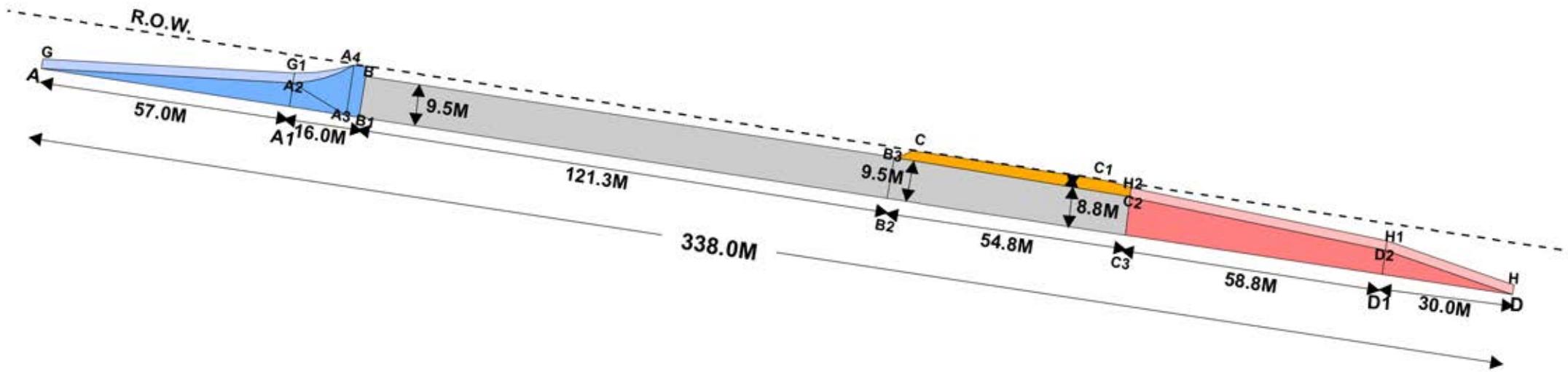
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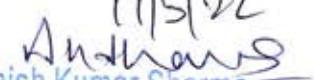
Ashish Kumar Sharma
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(Authorized Signatory)

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