

Proposed Construction of Petrol Pump in Garhmukteshwar, District: Hapur, Uttar Pradesh



78°7'38"E

78°7'40"E

78°7'42"E

78°7'44"E

78°7'46"E

78°7'48"E

78°7'50"E

28°45'40"N

28°45'38"N

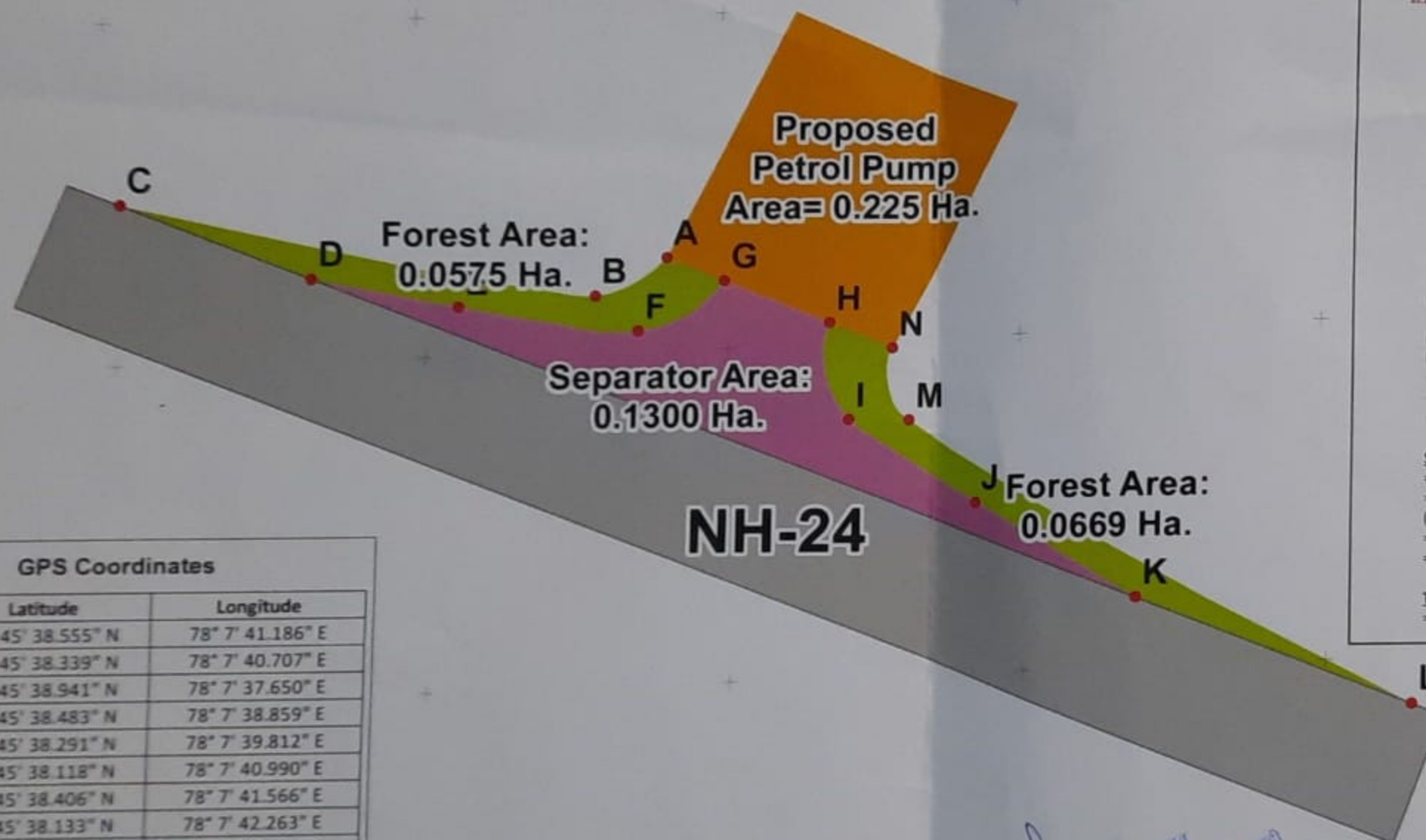
28°45'36"N

28°45'40"N

28°45'38"N

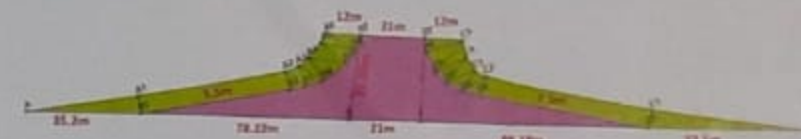
28°45'36"N

28°45'34"N



GPS Coordinates

Point	Latitude	Longitude
A	28° 45' 38.555" N	78° 7' 41.186" E
B	28° 45' 38.339" N	78° 7' 40.707" E
C	28° 45' 38.941" N	78° 7' 37.650" E
D	28° 45' 38.483" N	78° 7' 38.859" E
E	28° 45' 38.291" N	78° 7' 39.812" E
F	28° 45' 38.118" N	78° 7' 40.990" E
G	28° 45' 38.406" N	78° 7' 41.566" E
H	28° 45' 38.133" N	78° 7' 42.263" E
I	28° 45' 37.544" N	78° 7' 42.386" E
J	28° 45' 37.011" N	78° 7' 43.260" E
K	28° 45' 36.405" N	78° 7' 44.349" E
L	28° 45' 35.723" N	78° 7' 46.149" E
M	28° 45' 37.532" N	78° 7' 42.788" E
N	28° 45' 37.969" N	78° 7' 42.681" E



Entry Area (m²)

$$\begin{aligned}
 &= AA1B1 + A1A2B2B1 + A2B2B3 + A2A3B3 + A3B3B4 + A3A4B4 + \\
 &A4B4B5 + A4A5B5 + A5B5B6 + A5A6B6 + A6B6B7 \\
 &= (1/2 \times 35.2 \times 5.5) + (47.859 \times 5.5) + (1/2 \times 4.912 \times 5.5) + (1/2 \times 4.485 \times 7) + \\
 &(1/2 \times 6.385 \times 7) + (1/2 \times 3.923 \times 8.7) + (1/2 \times 8.698 \times 8.7) + (1/2 \times 6.133 \times 10.7) + \\
 &(1/2 \times 5.134 \times 10.7) + (1/2 \times 3.345 \times 11.7) + (1/2 \times 4.741 \times 12) \\
 &= 96.800 + 263.2245 + 13.508 + 15.6975 + 22.3475 + 17.0650 + 37.8363 \\
 &+ 32.8115 + 27.4669 + 19.5682 + 28.446 \\
 &= 547.7716 \text{ m}^2 = 0.0575 \text{ Ha.}
 \end{aligned}$$

Exit Area (m²)

$$\begin{aligned}
 &= CC1D1 + C1C2D2D1 + C2D2D3 + C2C3D3 + C3D3D4 + C3C4D4 + \\
 &C4D4D5 + C4C5D5 + C5D5D6 + C6D6D7 \\
 &= (1/2 \times 53.5 \times 5.5) + (55.5 \times 5.5) + (1/2 \times 6.62 \times 5.5) + (1/2 \times 4.5166 \times 7.9) + \\
 &(1/2 \times 6.3351 \times 7.9) + (1/2 \times 4.9289 \times 10.5) + (1/2 \times 4.8901 \times 10.5) + \\
 &(1/2 \times 5.831 \times 11.2) + (1/2 \times 6.901 \times 12) + (1/2 \times 4.963 \times 12) \\
 &= 147.125 + 305.25 + 18.205 + 17.8406 + 25.0237 + 25.8767 + 25.6730 \\
 &+ 32.6536 + 41.406 + 29.778 \\
 &= 668.8316 \text{ m}^2 = 0.0669 \text{ Ha.}
 \end{aligned}$$

Separator Area Between Entry & Exit (m²)

$$\begin{aligned}
 &= B1B7E + B7EFD7 + D1D7F \\
 &= ((78.2151 \times 23.25) - (3.14 \times (78.2151 \times 23.25) / 4)) + 21 \times 23.25 + \\
 &((84.17549 \times 23.25) - (3.14 \times (84.17549 \times 23.25) / 4)) \\
 &= 390.9777 + 488.25 + 420.7722 \\
 &= 1300 \text{ m}^2 = 0.130 \text{ Ha.}
 \end{aligned}$$

Total Protected Forest Area Proposed to be Diverted (Ha.)

$$= 0.0575 + 0.0669 + 0.130 = 0.2544 \text{ Ha.}$$

Forest Area (Entry): 0.0575 Ha.

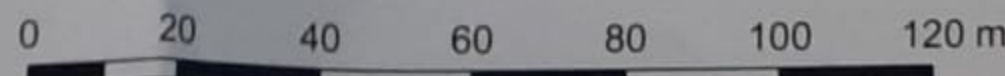
Forest Area (Exit): 0.0669 Ha.

Separator Area: 0.1300 Ha.

Total Forest Area to be Diverted: 0.2544 Ha.

Legend

- Co-ordinates
- NH-24
- Proposed Petrol Pump Site
- Forest Land For Separator
- Forest Land for Entry & Out



Submitted By :

HPCL, Meerut