Area Calculation

(Protected Forest Area proposed for diversion for non forestry Use)

Proposed Hindustan Petroleum Corporation Limited(HPCL) Retail Outlet on Shamli Road at Khasra.No.1677,Village: Shamli, Tehsil: Shamli, District: Shamli,Uttar Pradesh

Area Calculation Measurements on basis of Georeferenced Map & Approved Layout Plan.

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

= 36.335+ (12.4*9)sqm

= (36.335+111.6)sqm

=147.935sqm

Curve Radius= 13*13= 169

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

=132.66

Area of Curve Polygon= 169-132.66

36.335sqm

Protected Forest Land B/W Entry and Exit= Polygon (B1 C1 D2 A2) =(12.4*12.5)sqm

Protected Forest Land B/W Entry and Exit = 155sqm

Exit from Petrol Pump= Polygon (C1 C D1 D2) +Polygon Curve (C D D1)

=12.4*9 sqm+36.335sqm

Protected Forest Area for Exit from Petrol Pump= 147.935sqm

Total Proposed Protected Forest Area for Diversion

= 147.935sqm (Entry) +155sqm (Forest Area B/W Entry &Exit) + 147.935sqm (Exit)

= (147.935+155+147.935)sqm

= 450.87sqm

= 0.045087Ha