

## AREA CALCULATION SHEET AS PER APPROVED LAYOUT PLAN

PROPOSED PROTECTED FOREST LAND TO BE DIVERTED FOR ENTRY/EXIT APPROACH TO INDIAN OIL CORPORATION LIMITED RETAIL OUTLET ON MAHOBA-CHARKHARI ROAD (MDR-15B) IN KM. NO.- 15 (CH. NO. 14.480 TO 14.520, LHS) AT GATA NO.-568 & 577, VILLAGE:- JARDIN GANJ, TEHSIL:- CHARKHARI, DISTRICT:- MAHOBA (U.P.)

### **Entry Area approach to Retail Outlet**

$$\begin{aligned} &= AA1A2 + A1A2A3A4 + A3A4B4 + B3B4A4 + B2B3B4 + B1B2B3 + BB1B2 \\ &= \{1/2 \times (35.0m \times 5.5m)\} + (27.06619m \times 5.5m) + \{1/2 \times (7.93382m \times 5.5m)\} + \{1/2 \times (4.86061m \times 7.92m)\} + \{1/2 \times (7.47935m \times 9.1m)\} + \{1/2 \times (5.32726m \times 10.2m)\} + \{1/2 \times (8.85047m \times 10.7m)\} \\ &= 96.25 \text{ SqM} + 148.864 \text{ SqM} + 21.818 \text{ SqM} + 19.248 \text{ SqM} + 34.031 \text{ SqM} + 27.169 \text{ SqM} + 47.635 \text{ SqM} \\ &= 394.73 \text{ SqM} \end{aligned}$$

### **Area of Earthen Shoulder along Entry approach to Retail Outlet**

$$\begin{aligned} &= GG1A2A + G1G2A4A2 + G2A4B1 \\ &= (35.0m \times 2.25m) + (27.06623m \times 2.25m) + \{1/2 \times (12.79289m \times 2.25m)\} \\ &= 78.75 \text{ SqM} + 60.899 \text{ SqM} + 14.392 \text{ SqM} \\ &= 154.041 \text{ SqM} \end{aligned}$$

### **Area in Between Entry & Exit (Separator)**

$$\begin{aligned} &= A1FB + BCEF + D1EC \\ &= [(47.0m \times 14.79m) - \{3.14 \times (47.0m \times 14.79m)/4\}] + (16.0m \times 14.79m) + \{[(82.0m \times 14.79m) - \{3.14 \times (82.0m \times 14.79m)/4\}]\} \\ &= 149.453 \text{ SqM} + 236.64 \text{ SqM} + 260.748 \text{ SqM} \\ &= 646.841 \text{ SqM} \end{aligned}$$

### **Area of Exit approach from Retail Outlet**

$$\begin{aligned} &= DD1D2 + D1D2D3D4 + D3D4C5 + C4C5D4 + C3C4C5 + C1C3C4 + C1C2C3 + CC1C2 \\ &= \{1/2 \times (30.0 \times 5.5m)\} + (61.38473m \times 5.5m) + \{1/2 \times (8.61528m \times 5.5m)\} + \{1/2 \times (4.97186m \times 8.1)\} + \{1/2 \times (8.1173m \times 3.7m)\} + \{1/2 \times (5.11742m \times 8.5m)\} + \{1/2 \times (8.80189m \times 5.3m)\} + \{1/2 \times (6.46342m \times 10.06m)\} \\ &= 82.5 \text{ SqM} + 337.616 \text{ SqM} + 23.692 \text{ SqM} + 20.136 \text{ SqM} + 15.017 \text{ SqM} + 21.749 \text{ SqM} + 23.325 \text{ SqM} + 32.511 \text{ SqM} \\ &= 556.546 \text{ SqM} \end{aligned}$$

### **Area of Earthen Shoulder along Exit approach from Retail Outlet**

$$\begin{aligned} &= HH1D2D + H1H2D4D2 + C1H2D4 \\ &= (30.0m \times 2.25m) + (61.38489m \times 2.25m) + \{1/2 \times (12.64356m \times 2.25m)\} \\ &= 67.5 \text{ SqM} + 138.116 \text{ SqM} + 14.224 \text{ SqM} \\ &= 219.84 \text{ SqM} \end{aligned}$$

  
Hemant Kumar  
Sr. Manager (RS)  
Indian Oil Corporation Limited  
Kanpur Divisional Office Parki, Kanpur-208 020

**Total Protected Forest Area Proposed to be Diverted**

= 394.73 (Entry Area) SqM + 154.041 (Entry Earthen shoulder) SqM + 646.841 (Separator) SqM +  
556.546 (Exit Area) SqM + 219.84 (Exit Earthen shoulder) SqM  
= 1971.998 SqM  
≈ **0.1972 Ha.**

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

Non Forest Land area = area of square shape plot = [side(m) x side(m)]  
= (40.0m x 40.0m) = 1600.0 SqM  
= **0.16 Ha.**

  
11/03/2022  
हेमन्त कुमार / Hemant Kumar  
(Authorized Signatory)  
वरिष्ठ प्रबंधक (सू.सं. विभाग) / Sr. Manager (RS)  
इंडियन ऑइल कॉर्पोरेशन लिमिटेड / Indian Oil Corporation Limited  
कानपुर मंडल कार्यालय / Kanpur-208 020  
Kanpur Divisional Office Kanpur-208 020

AREA CALCULATION SHEET AS PER APPROVED LAYOUT PLAN

PROPOSED PROTECTED FOREST LAND TO BE DIVERTED FOR ENTRY/EXIT APPROACH TO INDIAN OIL CORPORATION LIMITED RETAIL OUTLET ON MAHOBA-CHARKHARI ROAD (MDR-15B) IN KM.  
NO.- 15 (CH. NO. 14.480 TO 14.520, LHS) AT GATA NO.-568 & 577, VILLAGE:- JARDIN GANJ,  
TEHSIL:- CHARKHARI, DISTRICT:- MAHOBA (U.P.)

