

Area Calculation Sheet as per Approved Layout Plan

**PROPOSED PROTECTED FOREST LAND TO BE DIVERTED FOR ENTRY/EXIT OF BPCL RETAIL OUTLET ON
SHIVRAJPUR – BINDKI - LALAU LI ROAD (MDR-15), IN KM. NO. 28 (CH. NO. 27.925 LHS), AT GATA
NO – 48 & 49, VILLAGE:- KATRA NARAICHA, TEHSIL:- BINDKI, DISTRICT:- FATEHPUR (U.P.)**

Entry Area approach to Retail Outlet

$$\begin{aligned} &= AA1A2 + A1A2A3A4 + A3A4A5B5 + B4B5A5 + B3B4B5 + B2B3B4 + B1B2B3 + BB1B2 \\ &= \{1/2 \times (30.0m \times 5.5m)\} + (21.55491m \times 5.5m) + (12.92764m \times 5.5m) + \{1/2 \times (7.86873m \times 5.5m) + \{1/2 \times (5.48323m \times 7.3464m)\} + \{1/2 \times (6.44786m \times 8.5126m)\} + \{1/2 \times (2.98904m \times 9.7289m)\} + \{1/2 \times (6.54257m \times 9.7289m)\} \\ &= 82.5 \text{ SqM} + 118.552 \text{ SqM} + 71.102 \text{ SqM} + 21.639 \text{ SqM} + 20.141 \text{ SqM} + 27.444 \text{ SqM} + 14.54 \text{ SqM} + 31.826 \text{ SqM} \\ &= 387.744 \text{ SqM} \end{aligned}$$

Area of Earthen Shoulder along Entry approach to Retail Outlet

$$\begin{aligned} &= AA2G1G + A2A3G2G1 + A3B5G3G2 + B1B5G3 \\ &= (30.0m \times 2.5m) + (21.1584m \times 2.5m) + (12.3m \times 2.5m) + \{1/2 \times (12.7776m \times 2.5m)\} \\ &= 75.0 \text{ SqM} + 52.896 \text{ SqM} + 30.75 \text{ SqM} + 15.972 \text{ SqM} \\ &= 174.618 \text{ SqM} \end{aligned}$$

Area in Between Entry & Exit (Separator)

$$\begin{aligned} &= A1EB + B C E F + CF D1 \\ &= [(14.8m \times 52.0m) - \{3.14 \times (14.8m \times 52.0m)/4\}] + (14.8m \times 16.0m) + (14.8m \times 82.0m) - \{3.14 \times (14.8m \times 82.0m)/4\} \\ &= 165.464 \text{ SqM} + 236.8 \text{ SqM} + 260.924 \text{ SqM} \\ &= 663.188 \text{ SqM} \end{aligned}$$

Area of Exit approach from Retail Outlet

$$\begin{aligned} &= DD1D2 + D1D2D3D4 + D3D4D5 + D3D5D6 + D5D6C5 + C4C5D6 + C3C4C5 + C1C3C4 + C1C2C3 + CC1C2 \\ &= \{1/2 \times (5.5m \times 30.0m)\} + (59.552m \times 5.5m) + \{1/2 \times (6.19746m \times 5.5m)\} + \{1/2 \times (5.107163m \times 6.1122m)\} + \{1/2 \times (4.10851m \times 6.1122m)\} + \{1/2 \times (3.62145m \times 7.8372m)\} + \{1/2 \times (5.25621m \times 8.1264m)\} + \{1/2 \times (3.10193m \times 8.9022m)\} + \{1/2 \times (5.54852m \times 8.9022m)\} + \{1/2 \times (4.29867m \times 12.0m)\} \\ &= 82.5 \text{ SqM} + 327.536 \text{ SqM} + 17.043 \text{ SqM} + 15.608 \text{ SqM} + 12.556 \text{ SqM} + 14.191 \text{ SqM} + 21.357 \text{ SqM} + 13.807 \text{ SqM} + 24.697 \text{ SqM} + 25.792 \text{ SqM} \\ &= 555.087 \text{ SqM} \end{aligned}$$

Area of Earthen Shoulder along Exit approach from Retail Outlet

$$\begin{aligned} &= DD2H1H + D2D3H2H1 + C1H2D3 \\ &= (30.0m \times 2.5m) + (59.2052m \times 2.5m) + \{1/2 \times (18.2m \times 2.5m)\} \\ &= 75.0 \text{ SqM} + 148.013 \text{ SqM} + 22.75 \text{ SqM} \\ &= 245.763 \text{ SqM} \end{aligned}$$

Total Protected Forest Area Proposed to be Diverted

= 387.744 (Entry Area) SqM + 174.618 (Entry Earthen shoulder) SqM + 663.188 (Separator) SqM +
555.087 (Exit Area) SqM + 245.763 (Exit Earthen shoulder) SqM
= 2026.4 SqM.
= **0.20264 Ha.**

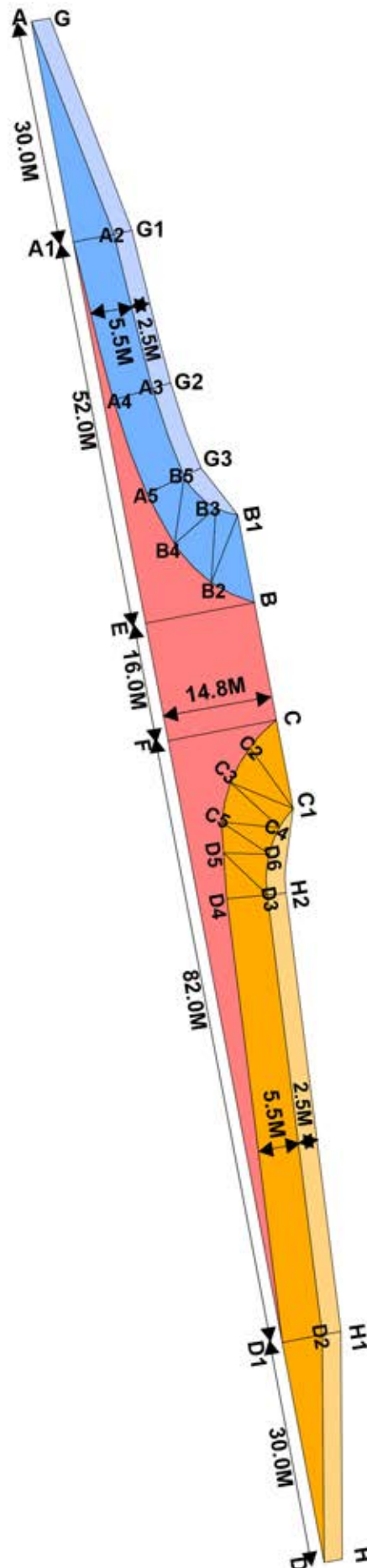
Total Area of Non Forest Land/Private Land as per Layout Plan

= Private land area = [{1/2 x (26.87787m x 68.2m)} + {1/2 x (21.01367m x 68.2m)}]
= (916.535 + 716.566) SqM = 1633.10 SqM
= **0.1633 Ha.**

13/06/2020
निरंजन कुमार / NIRANJAN KUMAR
(Authorised Signatory)
TERRITORY MANAGER (RETAIL)
भारत पेट्रोलियम कॉर्पोरेशन लिमिटेड
BHARAT PETROLEUM CORPORATION LTD.
भारती कॉलोन रोड, NH-2, कानपुर-208305
Bharat Petroleum Corporation Limited
Kanpur Retail Territory

AREA CALCULATION SHEET AS PER APPROVED LAYOUT PLAN

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ON SHIVRAJPUR – BINDKI - LALAU LI ROAD (MDR-15), IN KM. NO. 28 (CH. NO. 27.925 LHS), AT GATA
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13/06/2020

निरंजन कुमार / NIRANJAN KUMAR
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TERRITORY MANAGER (RETAIL)
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