

AREA CALCULATION SHEET AS PER APPROVED LAYOUT PLAN

PROPOSED PROTECTED FOREST LAND TO BE DIVERTED FOR ENTRY/EXIT APPROACH TO BHARAT PETROLEUM CORPORATION LIMITED RETAIL OUTLET ON LUCKNOW-GORAKHPUR ROAD NH-27 (OLD NH-28) IN KM. NO. 165 (CH. NO. 164.848, RHS) AT KHASRA NO.- 402, VILLAGE: - BADHAR KHURD, TEHSIL: - HARRAIYA, DISTRICT: - BASTI (U.P.)

Entry Area approach to Retail Outlet

$$\begin{aligned} &= AA1A2 + A1A2A3A4 + A3A4A5 + A3A5B4 + B3B4A3 + B2B3B4 + B1B2B3 + BB1B2 \\ &= \{1/2 \times (50.0m \times 5.5m)\} + (11.8382m \times 5.5m) + \{1/2 \times (8.16182m \times 5.5m) + \{1/2 \times (7.10267m \times 4.5m) + \{1/2 \times (4.95118m \times 10.2m)\} + \{1/2 \times (8.96471m \times 5.1m)\} + \{1/2 \times (8.21548m \times 10.6m)\} \\ &\quad + \{1/2 \times (10.48087m \times 11.6m)\} \\ &= 137.5 \text{ SqM} + 65.11 \text{ SqM} + 22.445 \text{ SqM} + 15.981 \text{ SqM} + 25.251 \text{ SqM} + 22.86 \text{ SqM} + \\ &\quad 43.542 \text{ SqM} + 60.789 \text{ SqM} \\ &= 393.478 \text{ SqM} \end{aligned}$$

Area of Earthen Shoulder along Entry approach to Retail Outlet

$$\begin{aligned} &= GG1A2A + G1G2A3A2 + G2A3B1 \\ &= (35.0m \times 2.25m) + (11.83823m \times 2.25m) + \{1/2 \times (17.8445m \times 2.25m)\} \\ &= 112.5 \text{ SqM} + 26.636 \text{ SqM} + 20.075 \text{ SqM} \\ &= 159.211 \text{ SqM} \end{aligned}$$

Area in Between Entry & Exit (Separator)

$$\begin{aligned} &= A1FB + BCEF + D1EC \\ &= [(31.5m \times 18.75m) - \{3.14 \times (31.5m \times 18.75m)/4\}] + (12.0m \times 18.75m) + [77.5326m \times 18.75m] - \{3.14 \times (77.5326m \times 18.75m)/4\} \\ &= 126.984 \text{ SqM} + 225.0 \text{ SqM} + 312.553 \text{ SqM} \\ &= 664.537 \text{ SqM} \end{aligned}$$

Area of Exit approach from Retail Outlet

$$\begin{aligned} &= DD1D2 + D1D2D3D4 + D3D4C4 + C3C4D3 + C2C3C4 + C1C2C3 + CC1C2 \\ &= \{1/2 \times (30.0m \times 5.5m)\} + (62.39655m \times 5.5m) + (7.60328m \times 5.5m) + \{1/2 \times (4.59823m \times 7.9m)\} + \{1/2 \times (7.61125m \times 9.6m)\} + \{1/2 \times (6.74783m \times 10.12m)\} + \{1/2 \times (9.73612m \times 10.8m)\} \\ &= 82.5 \text{ SqM} + 343.181 \text{ SqM} + 20.909 \text{ SqM} + 18.163 \text{ SqM} + 36.534 \text{ SqM} + 34.144 \text{ SqM} + 52.575 \text{ SqM} \\ &= 588.006 \text{ SqM} \end{aligned}$$

Area of Earthen Shoulder along Exit approach from Retail Outlet

$$\begin{aligned} &= HH1D2D + H1H2D3D2 + H2D3C1 \\ &= (30.0m \times 2.25m) + (62.39645m \times 2.25m) + \{1/2 \times (13.57867m \times 2.25m)\} \\ &= 67.5 \text{ SqM} + 140.392 \text{ SqM} + 15.276 \text{ SqM} \\ &= 223.168 \text{ SqM} \end{aligned}$$

Total Protected Forest Area Proposed to be Diverted

= 393.478 (Entry Area) SqM + 159.211 (Entry Earthen shoulder) SqM + 664.537 (Separator) SqM +
588.006 (Exit Area) SqM + 223.168 (Exit Earthen shoulder) SqM
= 2028.4 SqM
= **0.20284 Ha.**

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

= Non Forest Land area = area of retail outlet Private land
= {base(m) x height(m)} = (35.0m x 45.0m)
= 1575.0 SqM
= **0.1575 Ha.**

Rajesh
21/3/22

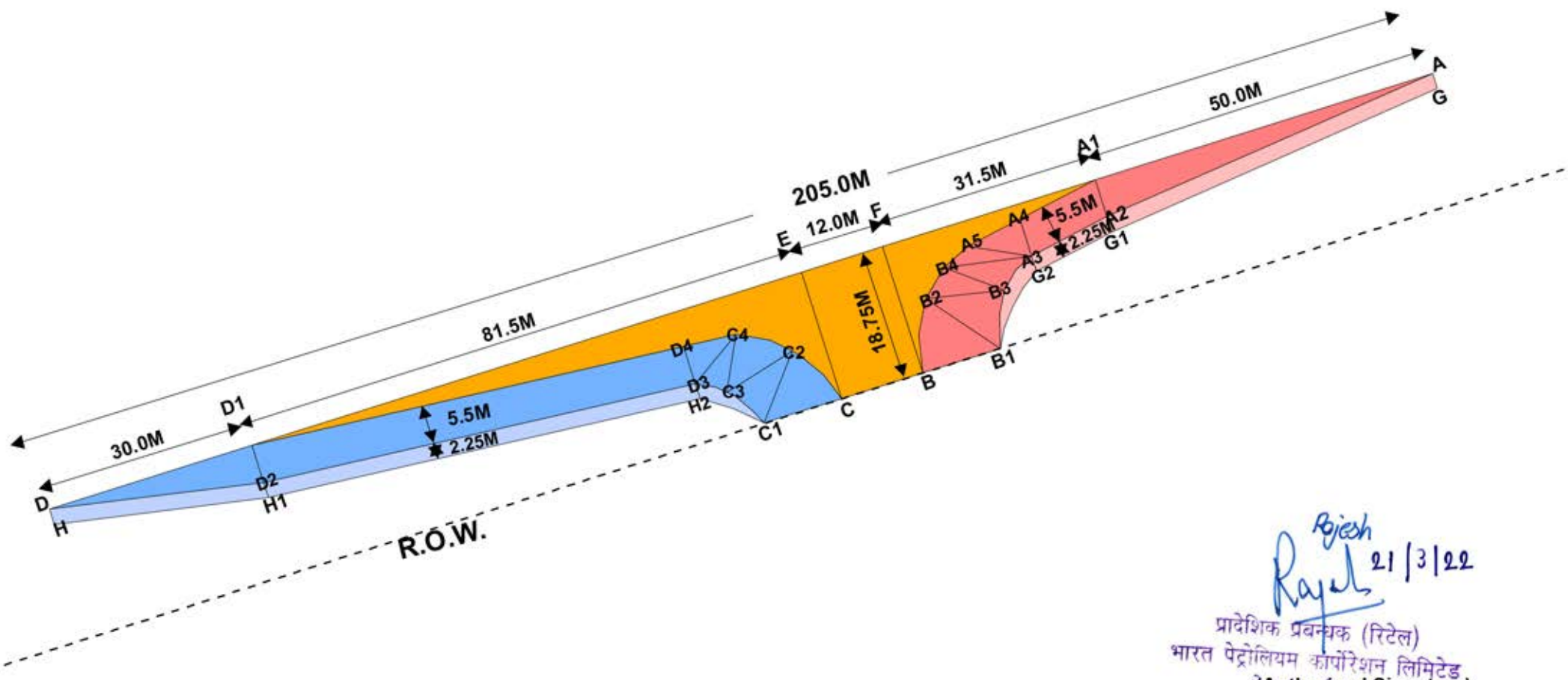
(Authorised Signatory)

भारत पेट्रोलियम कॉर्पोरेशन लिमिटेड

Bharat Petroleum Corporation Limited
गोरखपुर टैरिटोरी (रेटेल)

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VILLAGE: - BADHAR KHURD, TEHSIL: - HARRAIYA, DISTRICT: - BASTI (U.P.)



Rajesh
21/3/22
प्रादेशिक प्रबन्धक (रिटेल)
भारत पेट्रोलियम कॉर्पोरेशन लिमिटेड
(Authorised Signatory)
पो-बैतालपुर, देवरिया, (उत्तर प्रदेश)
Bharat Petroleum Corporation Limited
Gorakhpur Territory (Retail)