



JE - GLOO PA
 AD 188L
 PA GUL
 A70 BAY
 D70 SJ

AREA CALCULATIONS

ADDITION : 1
 A = 41.19 X 180.11 = 7418.730 sq.m.
 B = 98.52 X 180.11 / 2 = 8872.218 sq.m.
 C = 5.61 X 0.97 = 5.441 sq.m.
 D = 0.53 X 0.97 / 2 = 0.257 sq.m.
TOTAL = (A+B+C+D) = 16296.646 SQM
 (4.02702acres)

ADDITION : 2 : AREA UNDER 12M. SERVICE ROAD (PART OF GREEN BELT)
 $E = \sqrt{S(S-a)(S-b)(S-c)}$
 $S = (a+b+c)/2$
 $S = (13.68+12.0+6.56)/2 = 16.12$
 $16.12(16.12-13.68)(16.12-12.0)(16.12-6.56)$
 $16.12 \times 2.44 \times 4.12 \times 9.56 = 1549.208$
 $\sqrt{1549.208} = 39.36$ sq.m.
 F = 12.0 X 199.84 = 2398.08 sq.m.
 G = 12.0 X 6.56 / 2 = 39.36 sq.m.
TOTAL = (E+F+G) = 2476.80 SQM
 (0.61203acre)

ADDITION : 3 : AREA UNDER 38M. GREEN BELT
 H = 33.14 X 60.36 / 2 = 1000.165 sq.m.
 I = 6.30 X 11.74 / 2 = 36.981 sq.m.
 J = 33.10 X 11.74 = 388.594 sq.m.
 K = 6.70 X 11.74 / 2 = 39.329 sq.m.
 L = 26.60 X 48.62 / 2 = 646.646 sq.m.
 M = 13.20 X 48.62 = 641.784 sq.m.
 N = 6.33 X 11.58 / 2 = 36.650 sq.m.
 O = 11.58 X 15.28 = 176.942 sq.m.
 P = 15.28 X 27.94 / 2 = 213.461 sq.m.
 $Q = (a+b) / 2 (c+d) / 2 =$
 $= (39.52+36.71) / 2 (47.27+47.18) / 2 =$
 $= 38.115 \times 47.225 = 1799.980$ sq.m.
 $R = \sqrt{S(S-a)(S-b)(S-c)}$
 $S = (a+b+c)/2$
 $S = (36.71+19.48+40.52)/2 = 48.355$
 $48.355(48.355 - 36.71)(48.355 - 19.48)(48.355 - 40.52)$
 $48.355 \times 11.645 \times 28.875 \times 7.835 = 127391.917$
 $\sqrt{127391.917} = 356.92$ sq.m.
TOTAL = (H+I+J+K+L+M+N+O+P+Q+R) =
= 5337.452 SQM (1.31892acre)

TOTAL SITE AREA = ADDITION 1+ADDITION 2 + ADDITION 3 =
(16296.646+2476.80+5337.452) = 24110.898 SQM = 5.95797 ACRES
 SERVICE ROAD AREA (PART OF GREEN BELT) = 2476.80 SQM = 0.61203 ACRES
 GREEN BELT AREA = 5337.452SQM = 1.31892 ACRES
 NET PLANNED AREA = TOTAL SITE AREA - 50% OF SERVICE RD. & GREEN BELT AREA
 NET PLANNED AREA = 5.95797 - (50% OF (0.61203 + 1.31892)) = ~~4.99250~~ ^{4.027} ACRES
FINAL NET PLANNED AREA = ~~4.99250~~ ^{4.027} ACRES

LEGEND :
 RECTANGLE NO. :- 112
 KILA NO. :- 1 2/1 9/2 10 11 12 13/1

Apprvd By :	Ckd By :
Dm By :	Date : 13-01-2014
DESIGN CONSULTANTS :	
PROJECT TITLE : DEMARCATION PLAN OF AFFORDABLE GROUP HOUSING COLONY IN SECTOR 99A, VILLAGE DHANKOT, DISTRICT GURGAON, HARYANA, BEING DEVELOPED BY M/S PRIME INFRADEVELOPERS PVT. LTD.	
DRAWING TITLE : DEMARCATION PLAN	SCALE : 1:750
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