



AREA CALCULATIONS:-

TOTAL POPULATION = TOTAL F.A.R./10
 = (10318.612)/10
 = 1031.861
 = 1032 PERSON

NOTE :-

250 Ø SEWER LINE 1:190 -----
 150 Ø SEWER LINE 1:100 -----
 100 Ø SEWER LINE 1:150 -----

SEWAGE :-

TOTAL POPULATION = 1032
 AVG. DISCHARGE @ 45 LIT/HEAD/DAY
 = 1032 X 45 = 46,440 LIT.
 PEAK DISCHARGE = 3 X 46,440 = 1,39,320 LIT.
 SUBSOIL FILTRATION = 45 X 1032 = 46,440 LIT.
 TOTAL = 1,85,760 LIT.
 = 1.857 x 10⁻³ m /sec.

CAPACITY OF 250 MM Ø SEWER :-

$S = 1:190, m = \frac{2\sqrt{d}}{8\sqrt{xd}} = \frac{d}{4} = 0.25 \text{ m}, n = 0.015$
 $v = \frac{1}{n} \times m^{2/3} \times 5^{1/2} = \frac{1}{0.015} \times (0.0625)^{2/3} \times \frac{1}{190}^{1/2}$
 = 0.76 m/sec
 $c = \frac{av}{8} = \frac{\sqrt{d}}{8} \times 0.76 = \frac{\sqrt{0.25}}{8} \times 0.76$
 = 0.0186 cu.m/sec. > 0.00474 cu.m/sec.
 250 mm Ø SEWER PIPE IS O.K.

SIGNING AUTHORITY

ARCHITECTS SIGN

SUBMISSION DRAWING

PROJECT:-
PROPOSED COMMERCIAL FOR
M/s. MAHAVINAYAKA
INFRAPROJECTS PVT. LTD.
AT PLOT No. SLC-3/4,
SECTOR-ALPHA-2 G.NOIDA. (U.P.)

DRG. TITLE:-
SERVICE PLAN
(SHOWING SEWER LINE)

SCALE:-1:100 DRG. NO.:RW-01

DLT.BY:- DATE:07/11/2024

ARCHITECTS:-
 P. N. ANDLEY B.ARCH. A.I.I.A.

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