



DESIGN OF SEPTIC TANK TWO UP FLOW FILTERS.

No. of dwellings --- 20 units
 No. of Users --- 5x20 = 100nos.
 Rate of water supply is --- 150 LPH/Day.
 Then flow of sewage per day --- 100x150 = 15,000 Lts/Day.
 Detention period is --- 18 Hrs.
 Tank capacity --- 15,000x18 = 112500 Lts.
 24

The tank is to be cleaned every year. So the sludge storage capacity at the rate of 15Lts./person/year. --- 100x15 = 1500
 --- 15000+1500 = 16,500
 With provision for future expansion let the total capacity be 16,500 Lts. approximately taken as 19 m³
 Septic tank having the capacity of --- 19 m³
 Depth of liquid as --- 3.05
 Plan of the Tank --- 19 = 6.23
 Breadth of the Tank --- 2.00
 Length of the Tank --- 3.12
 Free board of the Tank --- 0.30
 Total depth of the Tank --- 3.05+15 = 3.35
 PROVIDE SEPTIC TANK OF THE SIZE --- 3.12x2.00x3.35

UP FLOW FILTERS
 Discharge for 115persons --- 17,250 Lts.
 Volume --- 17,250x0.98=16.91
 Depth --- 3.20m-0.15m = 3.05
 Plan area required --- 16.91 = 5.54 m²
 3.05

SIZE OF THE FINAL EFFLUENT SUMP --- 2.77x2.00x3.20
 UP FLOW FILTER NO.1 --- 1.20x2.00x3.20
 UP FLOW FILTER NO.2 --- 1.20x2.00x3.20
 SIZE OF THE SEPTIC TANK WITH UP FLOW FILTER --- 8.98x2.00x3.20

அலுவலகப் படி

MD 1.22 X 2.13 Window
 D 1.83 X 1.37 Window
 D1 2.44 X 2.13 Door
 D 1.75 X 2.13 Door
 CW 1.83 X 1.37 Glazed Window
 W 2.44 X 1.37 Window
 W1 செ.வெ.கு. (9) எண். 12667111 Window
 W2 உதவியாளர். 2.13 Window
 R.S 2.13 X 2.13 Window Shutter
 V1 0.60 X 0.60 Ventilator
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Area Statement (sqm)

Plot Area (As Per Doc.& (As Per TSFR)) --- 741.91 / 742.00 ✓
 Plot Area (As Per Site) --- 737.46 ✓

	F.S.I Area	Non F.S.I Parking 10%
Stilt Floor Area	258.05	34.51
First Floor Area	308.39	-
Second Floor Area	308.39	-
Third Floor Area	308.39	-
Total Floor Area	925.17	34.51

F.S.I Achieved - 1.25 Times = 925.17 sqm.

CMDA Renewed P.P.No. B/SPL.BLDG/455/2013
 Dated - 09/12/2013
 Building Permit No. 368/15/F2
 Dated - 09/09/2015

PLAN SHOWING THE PROPOSED OFFICE BUILDING AT NEW DR.NO. 311 (OLD DR NO.71) G S T ROAD, CHROMPET CHENNAI-600044.
 OLD S NO. 486/6A2, 485/19A4 (AS PER TSFR) T.S NO. 16B (AS PER TSFR)
 BLOCK NO. 36, WARD NO: E VILLAGE NO.-158, ZAMIN PALLAVARAM VILLAGE, PALLAVARAM MUNICIPALITY, TAMBARAM TALUK, KANCHEEPURAM-DT

Specifications

Foundations : Column footing foundation.
 Grade of Concrete M:25
 Flooring : Mosaic Flooring
 Super Structure : B.W in C.M 1:5
 R.C.C Work : In Lintel, Beams, sunshade, roof etc., with requiring thickness Grade of concrete M:25
 Weathering course : Brick jolly lime conc. below the weathering tiles
 Joinery : Best Indian Country Wood
 Finishes : Exterior & interior pointed with cement paint.

All Dimensions are in Metre.
 Scale : 1:108

Colour Index

Proposed --- Water Line
 Boundary --- Sewer Line
 Road ---

For JAI AUTOMOBILES
 + P.V. Suresh
 + R. Malathi
 PARTNER

Owner's Signature: *[Signature]*

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Architect Signature: *[Signature]*