

PLAN SHOWING THE PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING AT PLOT NO: 25 & 29, SAKTHI SRINIVASAN SALAI & KUMARAN KUDI, 2nd CROSS STREET OKKIAM THORAIPAKKAM, CHENNAI - 600 097.

அலுவலகப் பிளவு
 CHENNAI IN OLD S. NO. 128/1B1, 128/1C2, 130/1B1, 130/1B2, NEW S. NO. 128/2B(DOC) S. NO. 128/2B2 (PATT) OF OKKIAM THORAIPAKKAM VILLAGE SHOLINGANALLUR TALUK, WITHIN THE GREATER CHENNAI CORPORATION.

பகுதி (பி) பிளவு
 128/152/25/1/6

சுற்று வட்டம்
 சபை நகராட்சி

DIVISION: 194, ZONE: 15

SEPTIC TANK WITH UPFLOW FILTER DESIGN CALCULATIONS.

TWO UPFLOW FILTERS

NO. OF DWELLINGS	8 NOS
NO. OF USERS	1 NOS x 5 PERSONS = 5 PERSONS
RATE OF WATER SUPPLY	50 LITRES PER CAPITA / DAY
FLOW OF SEWAGE / DAY	45 x 150 = 6750 LITRES / DAY
DETENTION PERIOD	3 HRS
TANK CAPACITY	6750 x 1824 = 5092 LITRES

The Tank is to be cleaned every year. So the sludge storage capacity at the rate of 15 lbs per person / day
 = 15 x 45 persons = 675
 = 6750 x 675 = 7425 LITRES

With provision for future expansion let the total capacity be 6600 Ltrs = 7000 Ltrs

SEPTIC TANK HAVING CAPACITY OF	M ³
DEPTH OF LIQUID	1.00 M
PLAN OF THE TANK	7.0 / 1.0 = 7.00 M ²
BREADTH OF THE TANK	3.0 M
LENGTH OF THE TANK	2.50 M
FREE BOARD OF THE TANK	0.15 M
TOTAL DEPTH OF THE TANK	1.00 M x 0.15 M = 1.15 M
PROPOSED SEPTIC TANK SIZE	3.00 M x 2.50 M x 2.00 M

UPFLOW FILTERS

DISCHARGE FOR 45 PERSONS	6750 LITRES / DAY
VOLUME	6.00 X 0.96 = 5.88 M ³
DEPTH	0.7 - 0.10 = 0.55 M ²
PLAN AREA REQUIRED	5.88 / 1.2 = 4.9 M ²
SIZE OF THE EFFLUENT SUMP	2.5 X 1.15 X 0.7
UPFLOW FILTER NO.1	2.5 X 0.85 X 0.7
UPFLOW FILTER NO.2	2.5 X 0.85 X 0.7

AREA STATEMENT	Sq.Ft.	Sq.M.
PLOT AREA AS PER DOC	4800.00	445.93
PLOT AREA AS PER PATT	440.00	40.81
PLOT AREA AS PER SITE	438.18	40.69
FIRST FLOOR PROFESSIONAL CONSULTING OFFICE	39.11	3.61
FIRST FLOOR RESIDENTIAL	171.78	15.96
SECOND FLOOR	210.54	19.51
THIRD FLOOR	210.54	19.51
TOTAL	631.97	58.60

FSI ACHIEVED = 631.97 / 438.18 = 1.442

CAR PARKING PROVIDED 6 NOS

SCHEDULE OF JOINERIES

NO	DESCRIPTION	QTY	UNIT
M	MAIN DOOR	38	X 70"
D1	DOOR	38	X 70"
D2	DOOR	28	X 70"
FD	FRENCH DOOR	60	X 70"
KW	KITCHEN WINDOW	40	X 40"
W1	WINDOW	40	X 40"
V	VENTILATOR	28	X 28"
O	OPENING	30	X 70"

SCALE 1" = 8' 0" (OR) 1: 100

COLOUR INDEX	NORTH POINT
PROPOSED	N S E W
ROAD	
BOUNDARY	

DATE: 06.03.2017
 SCALE: 1"=8'-0"
 DRAWN: A. CLINTON
 CHECKED BY: S. VINOTH KUMAR
 FILE NAME: "SAI DIVYAM"

CONSULTANT
 SHIRDI PLANNERS
 No.4, Veeramunivar Street,
 M.G.R. Road, Kandanchavadi,
 Chennai - 600 095.
 OFF. PH: 044-42845009, 24960573.
 Email: shirdiplanners@gmail.com

SAI SHRINE HOUSING PRIVATE LTD
 Director: k. rajag

E.P. KRISHNAMOORTHY P.R.D., P.O. Control, P.R.A.M.
 Executive Engineer / Chief Planner / Air / TV
 CHARTERED ENGINEER / CIVIL
 STRUCTURAL ENGINEER / CIVIL
 Class I Surveyor, Corporation of Chennai
 APPROVED VALUER (G.T. SEPT) / APPROVED ENGINEER (BANK)
 New No. 14, Old No. 24, Dominion Street,
 1st Stage Chennai - 600 017.
 M.E. (STRUCTURE) Reg.No: 2438610
 SOCIETY OF STRUCTURAL ENGINEERS
 CALICUT, TRIVANDRUM, NO. 56/87
 LICENSED CLASS-I.C.S. NO-101

