

SCHEDULE OF PILE CAP REINFORCEMENT (TWO PILE)

PILE CAP BAR MARKED	BENDING DETAILS	REINFORCEMENT MARKED
R1		9#16
R2		12mm ST06"
R3		10mm#5"
R4		10mm#6"
R5		9nos 12mm

DESIGN OF SEPTIC TANK WITH TWO UP-FLOW FILTERS

RESIDENTIAL = 8 UNITS each floors
 THEREFORE TOTAL UNITS (4 floors) = 32 UNITS
 NO. OF USERS (5 PERSON PER UNIT) = (1320) = 160 PERSONS
 RATE OF WATER SUPPLY = 150 LITRES/HEAD/DAY
 FLOW OF SEWAGE PER DAY = 160 X 150 = 24000 LITRES

ASSUMING THE DETENTION PERIOD = 18 HOURS
 TANK CAPACITY = 24000 X 18 = 180000 LITRES

THE TANK WILL BE CLEANED EVERY YEAR. SO SLUDGE STORAGE CAPACITY AT THE RATE OF 50 LITRES FOR PER YEAR = 160 X 50 = 8000 LITRES

TOTAL = 180000 + 8000 = 260000 LITRES
 WITH PROVISION FOR FUTURE EXPANSION ADD 25% EXTRA
 LET THE TANK CAPACITY BE = 8 M³
 DEPTH OF FLOW AS = 2.00 M (AVERAGE)
 PLAN AREA OF THE TANK = 4M²

THE RATE OF L.B BREATH = 3.1
 B = 3 X 1.15 = 3.45M
 FREE BOARD OF THE TANK = 0.60M
 TOTAL DEPTH OF THE TANK = 2.00M + 0.60M + 2.65M
 REQUIRED SIZE OF SEPTIC TANK = 3.75 M X 1.15M X 2.65M = 11.60 M³

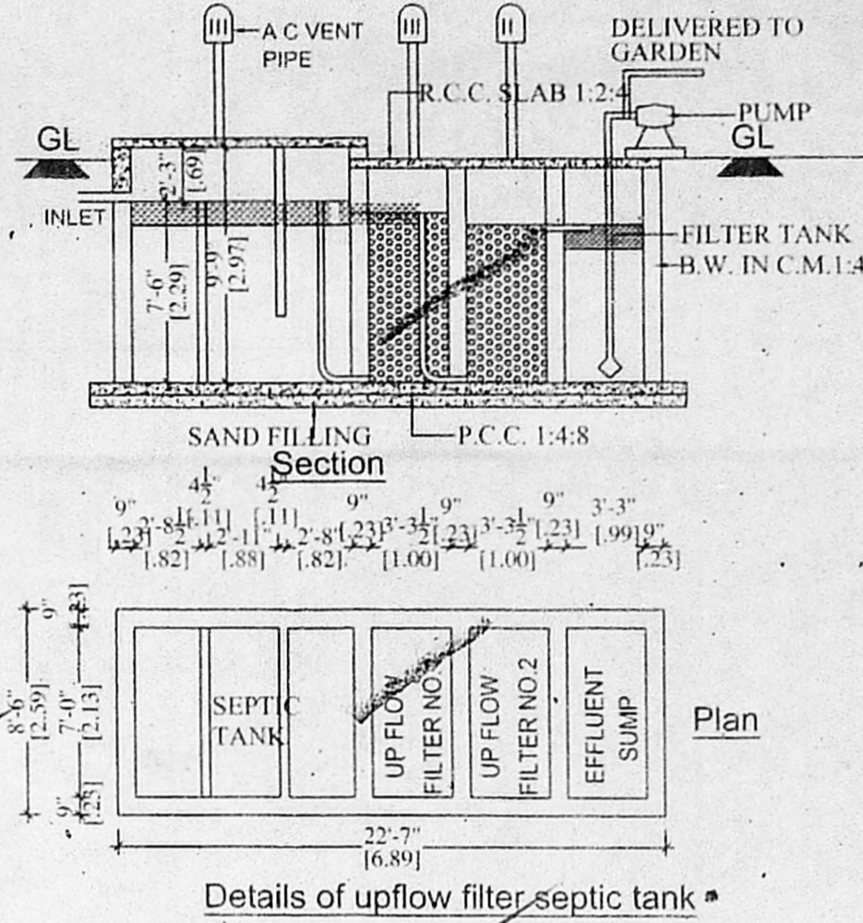
WE PROVIDE THE SEPTIC TANK OF SIZE IS = 2.74M X 2.13M X 2.65M = 15.70 M³

HENCE THE SEPTIC TANK IS SUFFICIENT

UP-FLOW DETAILS

DISCHARGE FOR 160 PERSONS = 24000 LITRES
 EXTRA FLOW TAKEN FOR FUTURE EXTENSION (ADD 50%) = 3500 LITRES
 TOTAL DISCHARGE = 27000 LITRES
 ASSUME THE PERCOLATING CAPACITY OF FILTER MEDIA OF THE UP-FLOW FILTER PIT AS 1.25 M³ (1250 LITRES/M²/DAY)
 VOLUME OF UP-FLOW FILTER PIT REQUIRED = 27000 / 1.25 = 21600 M³
 DEPTH OF UP-FLOW FILTER PIT PLAN AREA REQUIRED = 21600 / 2.00 = 10800 M²
 LENGTH AND BREATH = 1.50M
 REQUIRED SIZE OF UP-FLOW FILTER PIT = 1.90M X 1.90M X 2.00M

REQUIRED SIZE OF EFFLUENT COLLECTION TANK = 2 NOS X 1.00M X 2.13M X 2.00M
 FILTER PIT OF SIZE = 8.52 M³
 WE PROVIDE THE EFFLUENT COLLECTION TANK = 4.28 M³
 HENCE THE SEPTIC TANK SIZE (2.74M X 2.13M X 2.65M) UP-FLOW FILTER PIT SIZE (2 NOS X 1.00M X 2.13M X 2.00M), AND EFFLUENT COLLECTION TANK SIZE (1.00M X 2.13M X 2.00M) ARE SUFFICIENT FOR THE FLATS.



அலுவலகப் படி

செ.ப.வ.கு. (பி) 6088
 7-11-2016
 2-11-2016
 2-11-2016

PLAN SHOWING THE PROPOSED RESIDENTIAL BUILDING COMPRISING LOW INCOME GROUP NOT EXCEED 50 SQ.M IN DWELLING UNIT AREA AT PLOT NO 97 & 98, INDIRA PRIYADARSHINI NAGAR 1st MAIN ROAD IN OLD S.NO: 461/1 PART, NEW R.S NO: 461/4, 461/3, PERUMBAKKAM VILLAGE, SHOLINGANALLUR TALUK, KANCHEEPURAM DISTRICT, WITHIN ST. THOMAS MOUNT PANCHAYAT UNION LIMIT.

SCALE 1:100

JOINERY DETAILS

M/D DOOR	33 X 70"	1.00 X 2.13
D1 DOOR	30 X 70"	0.91 X 2.13
D2 DOOR	26 X 70"	0.76 X 2.13
W WINDOW	20 X 40"	0.60 X 1.22
CJ CEMENT JALLY	40 X 20"	1.22 X 0.60
WT WINDOW	15 X 40"	0.46 X 1.22
V VENTILATOR	20 X 30"	0.61 X 0.91

AREA STATEMENT

ITEM	SO M
PLOT EXTENT	654.87
AS PER DOC	660.00
AS PER PATTA	660.00
SUPER IMPOSED AREA	660.00
LEAST AREA	654.87
FIRST FLOOR AREA	317.57
SECOND FLOOR AREA	317.57
THIRD FLOOR AREA	317.57
FOURTH FLOOR AREA	317.57
TOTAL FSI AREA	1270.28
FSI = 1270.28 / 654.87	= 1.940

REFERENCE

	PROPOSED
	ROAD
	BOUNDARY

OWNER'S SIGNATURE

A. Santhosh

A. SANTHOSH, B.Arch, M.M
 LICENSED SURVEYOR
 Class-1 - R.A. No: 148
 G2, COLTS VIEW APARTMENTS,
 MADUVANKARAI, GUNDIRY,
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LICENSED SURVEYOR

