PROPOSED RESIDENTIAL FLATS IN S.No. 104, 105 PART, 106 PART AT VEMBULI AMMAN KOIL S. 104, VIRUGAMBAKKAM VILL. SAIDAPET TALUK, CHENGLEPET DISTRICT DIV No. 76

SITE PLAN (SCALE 1:500)

FRONT ELEVATION

SECTION 'AA'

COLUMN FOUNDATION DETAIL

LOCATION PLAN (NOT TO SCALE)

TERRACE FLOOR PLAN

TYPICAL FLOOR PLAN first & second floors

APPROVED
SUBJECT TO THE CONDITIONS IN THIS OFFICE LETTER.
PLANNING PERMIT No. 2/2/2
FOR MEMBER SECRETARY
MADRAS METROPOLITAN DEVELOPMENT AUTHORITY
CHENNAI-600 008

APPROVED
SUBJECT TO THE CONDITIONS IN THIS OFFICE LETTER.
PLANNING PERMIT No. 2/2/2
FOR MEMBER SECRETARY
MADRAS METROPOLITAN DEVELOPMENT AUTHORITY
CHENNAI-600 008

legend

DOORS
MD 1.0m x 2.10m
D 0.9m X 2.1m
T 0.7m X 2.1m
FD 0.9 X 2.1m

WINDOWS
W 1.8m X 1.2m
W1 1.5m X 1.2m
W2 1.8m X 1.2m
W3 1.5m X 1.2m
W4 2.4m X 1.2m
W5 0.9m X 1.2m
VENTILATOR
V 0.9m X 0.6m
WINDOWS, Nos. - 73m x 1.2m

area statement

GROUND FLOOR - FIRST FLOOR

TOT GROUND FLOOR BUILT-UP AREA

TOT TYPICAL FLOOR BUILT-UP AREA

TOT GROUND FLOOR COVERAGE

TOTAL BUILT UP AREA - 4736.5 SQ.M

F.S.I. - 1.186 (BASED FLOOR COVERAGE)

P. RAVI, B.Arch. MED MCA PIMA AIA
REGISTERED ARCHITECT CLASS I No. A. 39
CORPORATION OF CHENNAI, LICENSED
22, SUBRAMANIAN COLONY, MADRAS - 600 086

P. RAVI architects pl ltd

P. RAVI, B.Arch. AIA, A.I.D. PIMA AIA
Regd. architect.
Interior designer.
Town planner.
22, Second cross st.,
Elapsamman colony,
Madras - 86. tel:-

173-5X10-8

WASTE WATER DISPOSAL & SEWAGE TREATMENT PLANT

CALCULATION —

No OF DWELLING UNITS = 20X 3 = 90 NOS
No OF USERS = 90X5 = 450 PERSONS.
No OF UNITS PER DWELLING = 2
AS PER GOVT OF INDIA MANUAL
ADOPTING A PEAK FACTOR OF 6:
PEAK DISCHARGE = 6X 2 X 90 = 1080 LITRES/MINUTE.

RATIO ASSUMED = 1:3 COEFF → 0.92.

SURFACE AREA OF SEPTIC TANK REQUIRED
= $\frac{1080 \times 0.92}{10}$ = 99.36 ~~99~~ M. SAY 100M².

PROVIDE 5M X 20M SIZE

LIQUID DEPTH —
VOL OF SEDIMENTATION = 100X 0.30 = 30M³
VOL OF SLUDGE STORAGE - 450X 0.0002X 365 = 3.285 M³
VOL OF DIGESTION — 450 X 0.032 = 14.4
47.68 M³

LIQUID DEPTH = $\frac{\text{VOL}}{\text{SURFACE AREA}} = \frac{47.68 M^3}{100 M^2}$ 0.48 M

INLET PIPE INVERT LVL ASSUMING A GRADIENT OF 1 IN 80 STARTING FROM FIRST CHAMBER = 0.61M.
TOT LIQUID DEPTH = 0.48+0.61M = 1.09M SAY 1M

SIZE OF SEPTIC TANK = 5.64M X 20M X 1.1M

PROVIDED

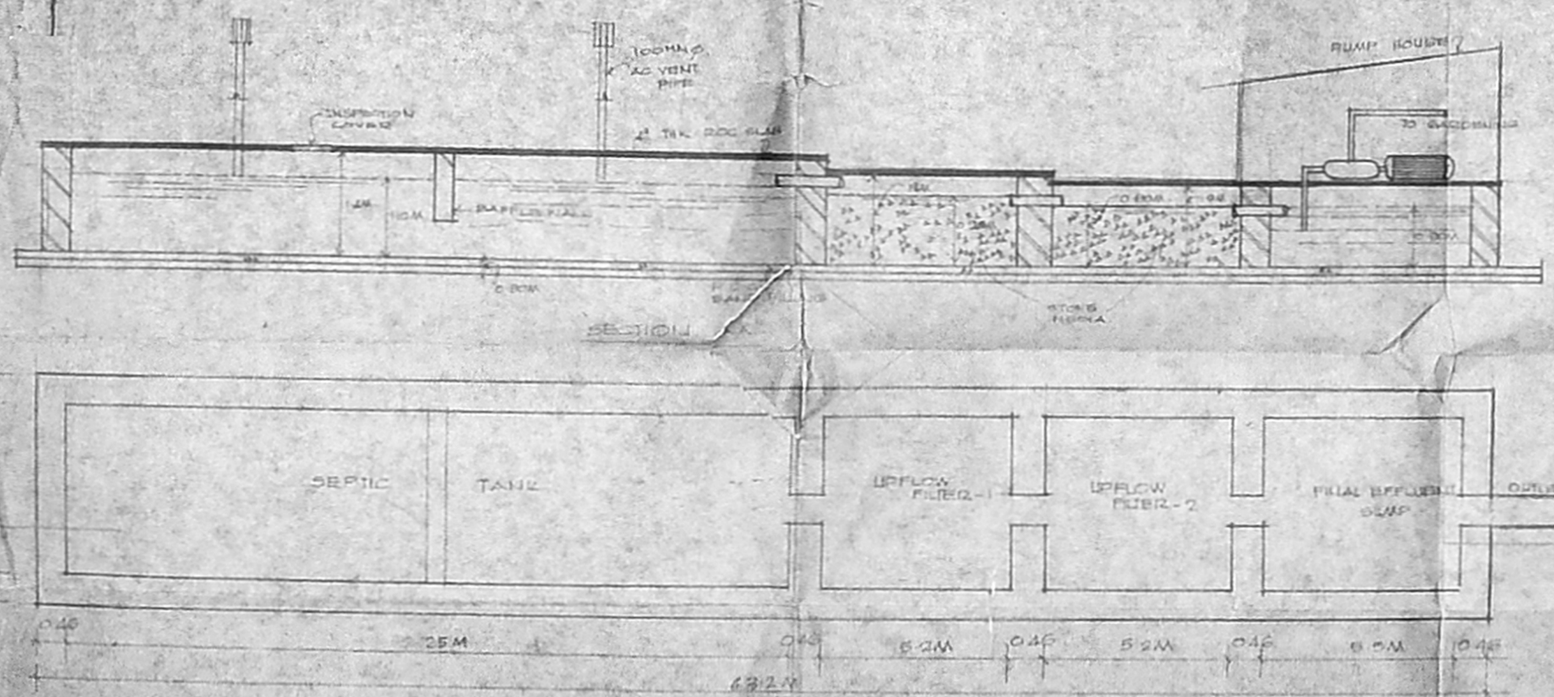
UPFLOW FILTERS —
No OF USERS - 450 PERSONS.
VOL OF LIQUID = 450X0.045
= 20.25 M³

DEPTH — 1.1 - 0.3 = 0.80M.

AREA OF FILTER
= $\frac{20.28 M^3}{0.80 m}$ 25.31M². SAY 26M²

OVER ALL SIZE - 5MX 5.2MX 1.1M.
UPFLOW FILTER ① — 5MX 5.2MX 0.95 M
UPFLOW FILTER ② - 5MX 5.2MX 0.80M

S.No	NAME	SIZE
1	SEPTIC TANK	5MX20M X 1.1M
2	UPFLOW FILTER-①	5MX5.2 X 0.95M
3	UPFLOW FILTER-②	5MX5.2 X 0.8M



MMDA (B1/PP No. 1
C.No. 21/ 1 2 3 4 5 6
Asst.
Scrutiny
PART I
PART II
A.M. U.M.
B/13020/8/8/91
Planning Permit No.
APPROVED
SUBJECT TO THE CONDITIONS ... THIS OFFICE LETTER No. B/11571/91 dt. 11.10.
FOR MEMBER SECRETARY
MADRAS METROPOLITAN DEVELOPMENT AUTHORITY
MADRAS-600 008.
9/1/91

OWNERS SIGN

PROPOSED RESIDENTIAL FLATS IN
S.No 218/4, 218/5, 218/6, 218/7, 218/8, 218/9
VIRUGAMBAKKAM VILLAGE
No 104, VEMBULI AMMAN KOIL ST., SAIDAPET TALUK
CHENGLEPET DISTRICT
DIV NO. 76

P. RAVI B.Arch. ARA AIID MCA FIBA AIV
LICENSED SURVEYOR CLASS I No. B.A. 33
CORPORATION OF MADRAS
22, ELLIAMMAN COLONY, MADRAS-600 086

P RAVI ARCHITECTS P LTD
P. RAVI B.ARCH. ARA AIID FIBA AIV
CHIEF ARCHITECT.
22, SECOND CROSS ST
ELLIAMMAN COLONY
MADRAS - 86
TEL- 493769