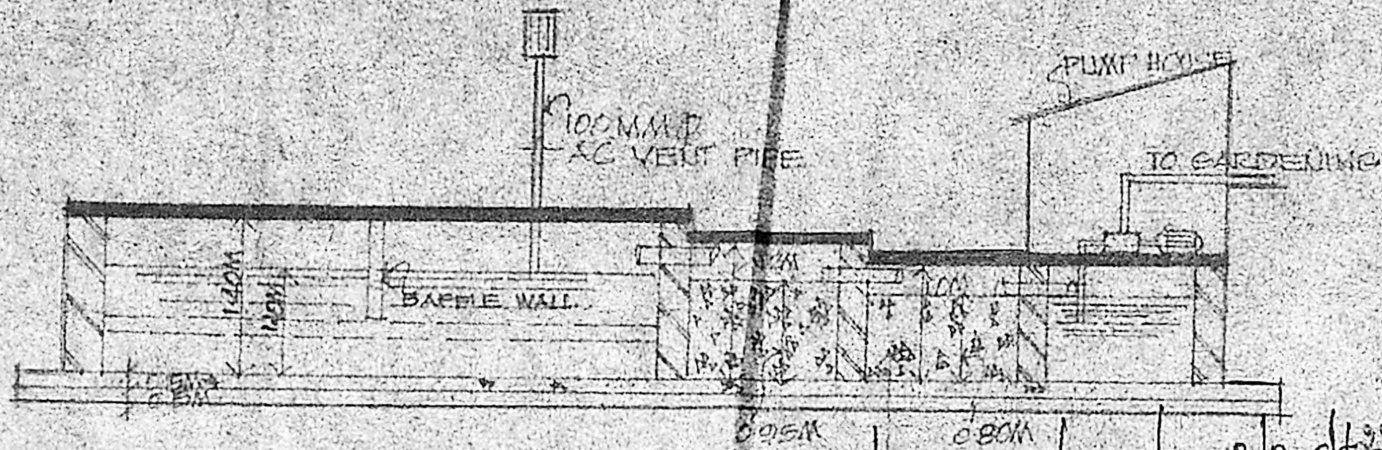
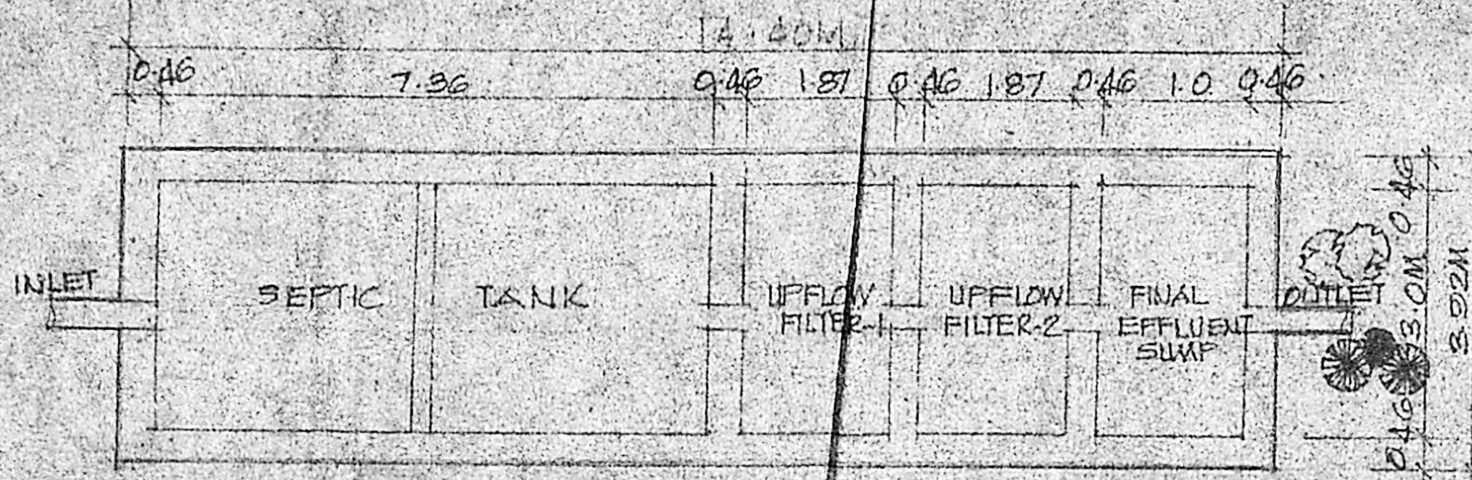


WASTE WATER DISPOSAL & SEWAGE TREATMENT PLANT.

M.P.P. No. B/PP No. 1
B.1/14/03/90

de
2
12/1/90



B/13/140/28/91 B/13/140/28/91

Planning Permit No.
APPROVED
SUBJECT TO THE CONDITIONS IN THIS OFFICE LETTER.
No. B/14/03/90 19-4-91
FOR MEMBER SECRETARY
MADRAS METROPOLITAN
DEVELOPMENT AUTHORITY
MADRAS 600 098

NO OF DWELLING UNITS - 10x2 = 20
NO OF PERSONS - 20x5 = 100
NO OF UNITS PER DWELLING - 2

AS PER GOVT OF INDIA MANU ADOPTING A PEAK XL FACTOR
PEAK DISCHARGE = 6x2x20 = 240 LITRE

RATIO ASSUMED = 1.3 COEFF = 0.92

SURFACE AREA OF SEPTIC TANK REQUIRED = 22.08 SAY 22.1 M²

ADOPT 3x7.36M SIZE

LIQUID DEPTH
VOL OF SEDIMENTATION = 22.1 x 0.30 = 6.61 M³
VOL OF SLUDGE STORAGE = 100 x 0.0002 x 36.5 = 0.73
VOL OF DIGESTION = 100 x 0.032 = 3.20
10.54 M³

LIQUID DEPTH = $\frac{VOLUME}{SURFACE AREA} = \frac{10.54}{22.1} = 0.48M$

INLET PIPES INVERT LVL ASSUMING A GRADIENT OF 1 IN 80 STARTING FROM FIRST CHAMBER = 0.61M

TOTAL DEPTH = 1.09M SAY 1.10M

SIZE OF SEPTIC TANK = 3x7.36x1.10M

UPFLOW FILTERS:
NO OF USERS - 100 PERSONS
VOL OF LIQUID = 100x0.045 = 4.5 M³
DEPTH = 10 - 0.30 = 0.80M
AREA OF FILTER = $\frac{4.5}{0.8} = 5.625 M^2$
OVERALL SIZE = 3x1.87x1.10M

UPFLOW FILTER ① = 3M x 1.87M x 0.80M
UPFLOW FILTER ② = 3M x 1.87M x 0.80M

SNO	NAME	SIZE IN METERS
1	SEPTIC TANK	3x7.36x1.10
2	UPFLOW FILTER ①	3x1.87x0.80
3	UPFLOW FILTER ②	3x1.87x0.80

PROPOSED RESIDENTIAL FLATS IN PLOT NO B3 S NOS 181 & 182 (PART OF NANGANALLUR CO-OPERATIVE BUILDING SCHEME) NO 15A NANGANALLUR VILLAGE SAIDAPET TALUK CHINGLEPET DISTRICT

T. Nagathin

S. Kala

SIG OF OWNER

P. Ravi
P. RAVI

B. ARCH. AIA, AID, MCA, FIRA, AV
LICENSED SURVEYOR NO: R.A-33
CORPORATION, MADRAS
22, ELLAIAMMAN COLONY, MADRAS-600 088

P. RAVI ARCHITECTS (P) LTD
P. RAVI, B. ARCH, AIA, AID, FIRA, AV
RESD. ARCHITECT

22, SECOND CROSS ST,
ELLAIAMMAN COLONY,
MADRAS-86 TEL-453759