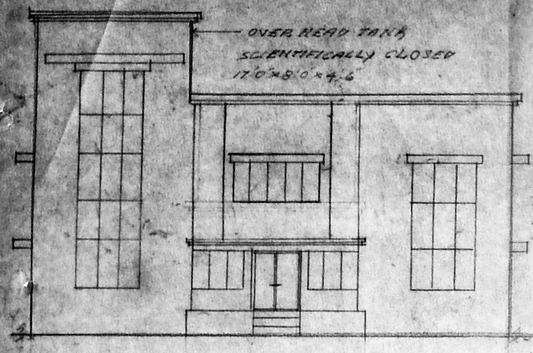
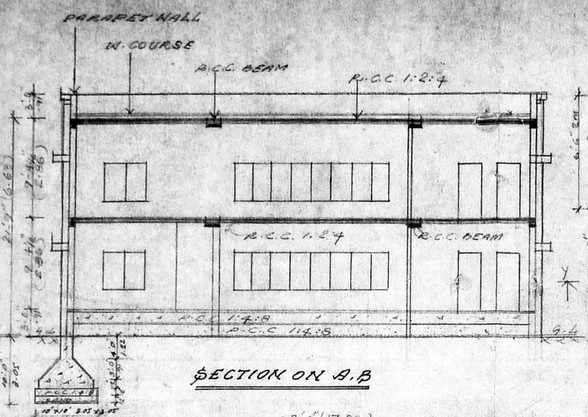
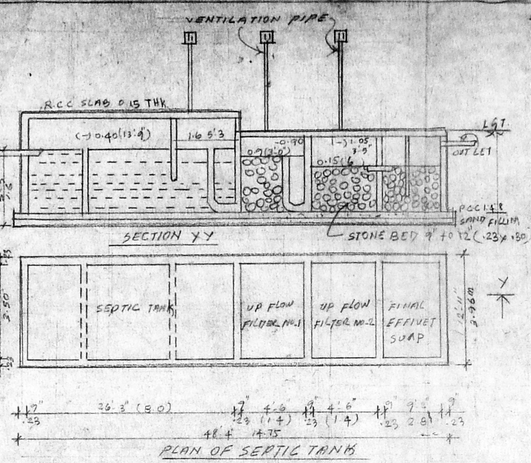


FRONT ELEVATION



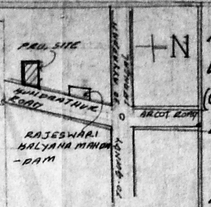
SECTION ON A.B



PLAN OF SEPTIC TANK

DESIGN OF SEPTIC TANK & UP FLOW FILTER

NO OF DWELLING
NO OF USERS
RATE OF WATER SUPPLY IS — 150 Lph/day
THEN FLOW OF SEWAGE PER DAY = 90% 150 = 1000 LTS
DETENTION PERIOD IS — 18 HRS
TANK CAPACITY 21000 x 18/24 = 15750 LTS
THE TANK IS TO BE CLEARED EVERY YEAR SO
SLUDGE STORAGE CAPACITY AT THE RATE
OF 15 LTS FOR PERSON PER YEAR
40 x 15 = 6000 LTS 21000 + 21000 LTS
WITH PROVISION FOR FUTURE EXPANSION
LET THE TOTAL TANK CAPACITY BE
30000 LTS (OR) 30m
DEPTH OF LIQUID AS — 1.6m
PLAN AREA OF THE TANK — 30/1.6 = 19m²
THE RATIO OF LENGTH TO WIDTH OF TANK BE 3
LENGTH x BREATH x 3 = 19m²
BREATH OF TANK = 3.5m
LENGTH OF TANK = 8m
FREE BOARD OF THE TANK — 0.40m
PROVIDE TWO SEPTIC TANKS EACH OF 8 X 3.5 x 2m
THE SIZE UPFLOW FILTERS
DISCHARGE FOR 500 PERSONS — 75,000 LTS
VOLUME — 500 x 45 — 22.50 m³
DEPTH — 1.10+0.30 — 0.80m
PLAN AREA REQUIRED 22.5/0.80 = 28m²
SIZE OF FINAL EFFI SUMP 2.80 x 0.70 x 1.75m
UP FLOW FILTER NO-1 1.40 x 0.70 x 0.80m
UP FLOW FILTER NO-2 1.40 x 0.70 x 0.80m

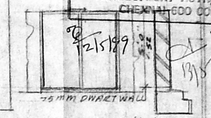


KEY PLAN N.T.S

C/025871/16/99

Planning Permit No

APPROVED
SUBJECT TO THE CONDITIONS IN
THIS OFFICE LETTER
No C2/22860/98 Date 14-5-99
FOR MEMBER SECRETARY
CHENNAI METROPOLITAN
DEVELOPMENT AUTHORITY
CHENNAI-600 008.



PROPOSED COMPUTER AIDED DESIGN CENTRE AT S.NO (OLD 359/1) NEW SURVEY NO-359/7 & 359/6 BUNDRATHUR ROAD, PORUR VILLAGE, SAIDAPET TALUK, CHENNAI-600 116.

FOR M/S AVANT GARDE ENGINEERS AND CONSULTANTS (P) LTD.

AREA STATEMENT

PLOT AREA	763.84 m²
GROUND FLOOR	374.81 m²
FIRST FLOOR	374.71 m²
TOTAL FLOOR	749.52 m²
F.S.I	0.77
PLOT COVERAGE	39%

CMDA / PP No. 37d. 81
C2 / 22-8-60/98
Asst. Secretary
12/5/99
PART I

A.P. D.P.

JOINERY DETAILS

M.D	MAIN DOOR	6'0" x 7'0"
D	DOOR	3'0" x 7'0"
D_1	DOOR	6'9" x 7'0"
D_2	DOOR	2'6" x 7'0"
W	WINDOW	20'0" x 4'6"
W_1	WINDOW	8'0" x 4'6"
W_2	WINDOW	6'0" x 4'6"
W_3	WINDOW	4'6" x 4'6"
W_4	WINDOW	10'0" x 4'6"
W_5	WINDOW	2'7½" x 4'6"
V	VENTILATOR	2'0" x 2'0"
V_1	VENTILATOR	3'0" x 2'0"

COLOUR INDEX

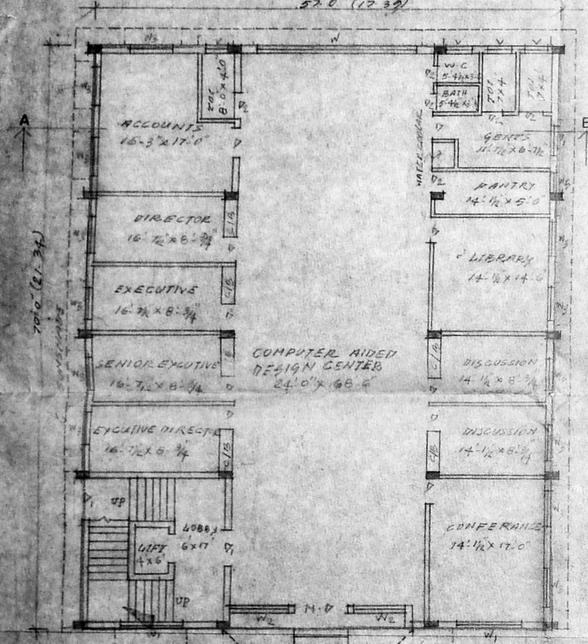
PROPOSED ROAD SITE

For AVANT-GARDE ENGINEERS AND CONSULTANTS (P) LTD.
Director

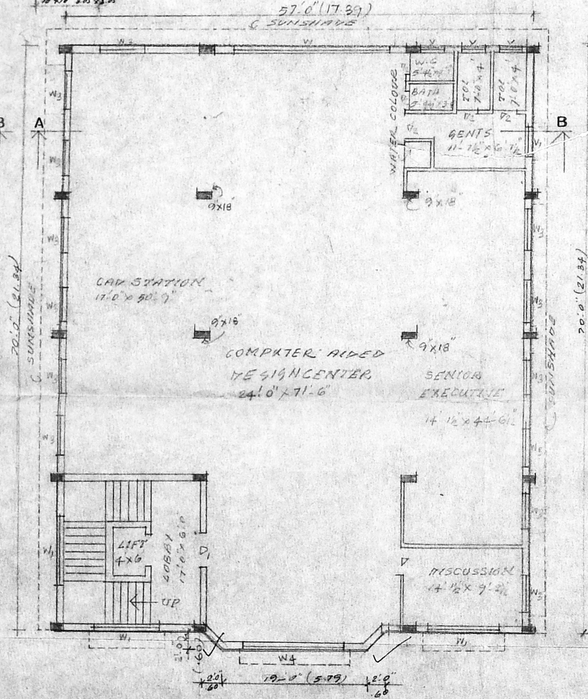
OWNER'S

S. RAMESH, B.E.
Class I Licensed Surveyor
Regd. No:/67
Corporation of Chennai
30, North Usman Road, 1st Floor
T. NAGAR, CHENNAI-600 017

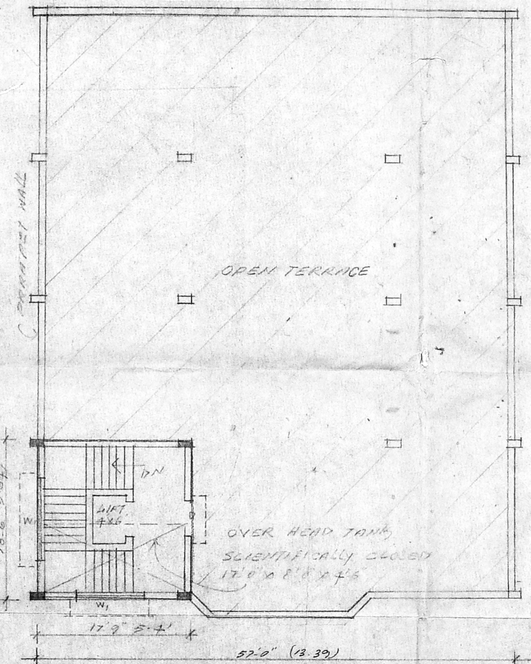
LICENSED SURVEYOR



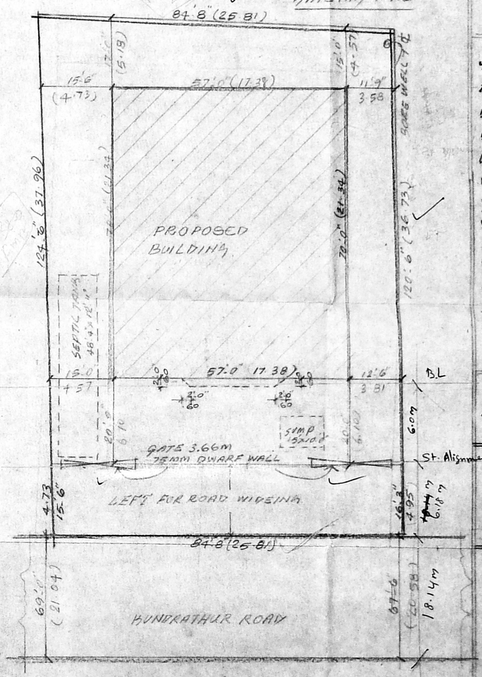
GROUND FLOOR PLAN



FIRST FLOOR PLAN



TERRACE FLOOR PLAN



SITE PLAN SCALE 1:200