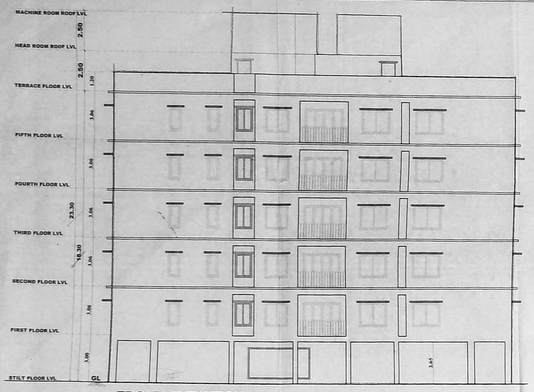
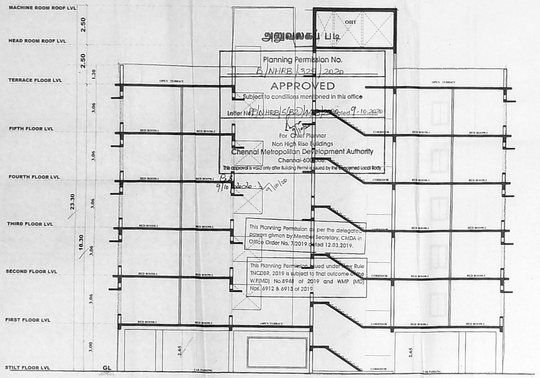
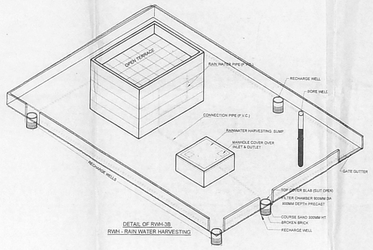


FRONT ELEVATION



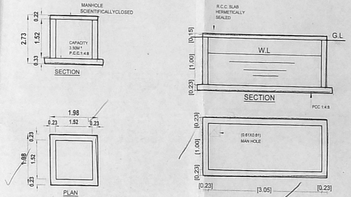
SECTION ON X-X

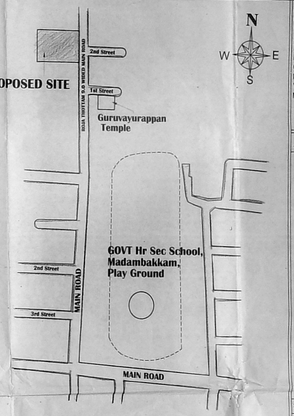
Planning Permission No. B/NHRB/329/2020
APPROVED
Subject to conditions mentioned in this office Letter No. B/NHRB/329/2020, dt. 07.10.2020
For Chief Planner
Non High Rise Buildings
Chennai Metropolitan Development Authority
Chennai-600008
This approval is valid only after building permit is issued by the concerned local body
This Planning Permission is given as per the directions/orders given by Member Secretary, CMDA in CMDA Order No. 7/2019 dated 12.01.2019.
This Planning Permission is issued under Rule 7(a)(2)(ii) 2019 is subject to final outcome of the W.P.(MD) No.6948 of 2019 and WMP (MD) Nos.6912 & 6913 of 2019.



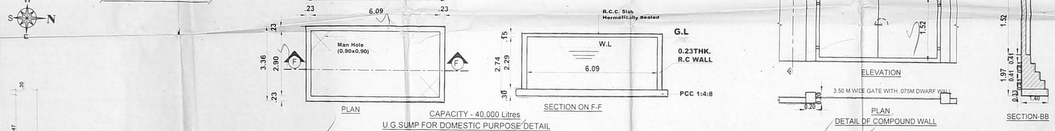
DETAIL OF RWH-3B
RWH - RAIN WATER HARVESTING

Solar Photo Voltic Panal
NOT TO SCALE

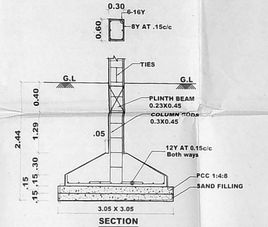


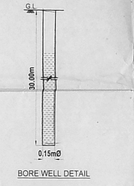


KEY PLAN
(NOT TO SCALE)

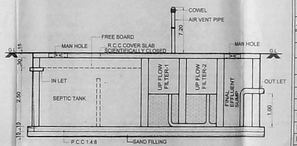


CAPACITY - 40,000 Litres
U.G SUMP FOR DOMESTIC PURPOSE DETAIL

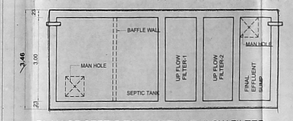




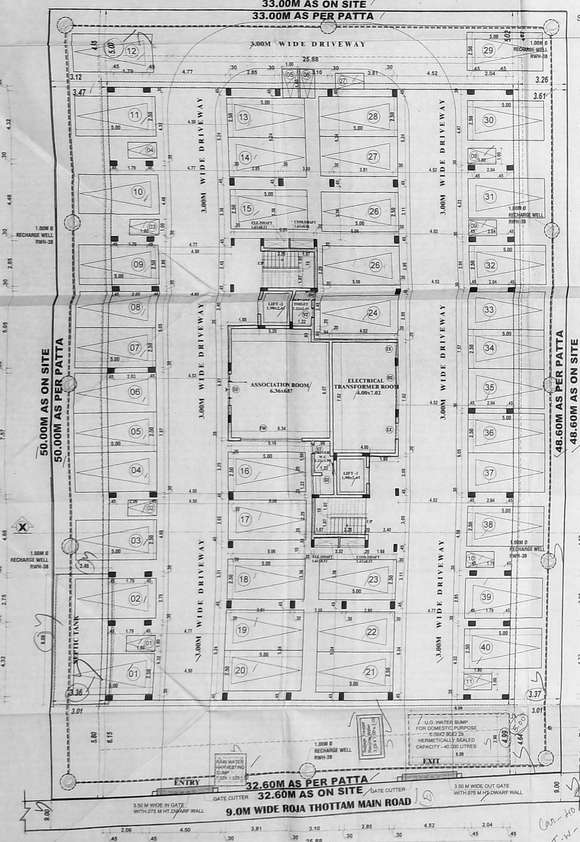
BORE WELL DETAIL



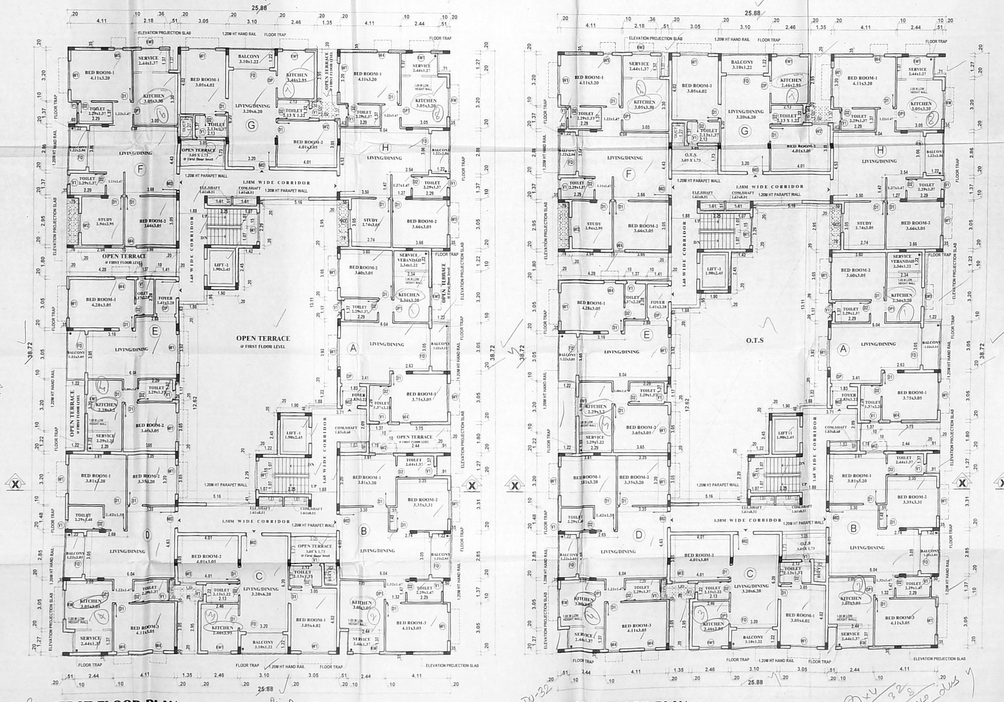
SECTION



PLAN OF SEPTIC TANK WITH UP FLOW FILTER

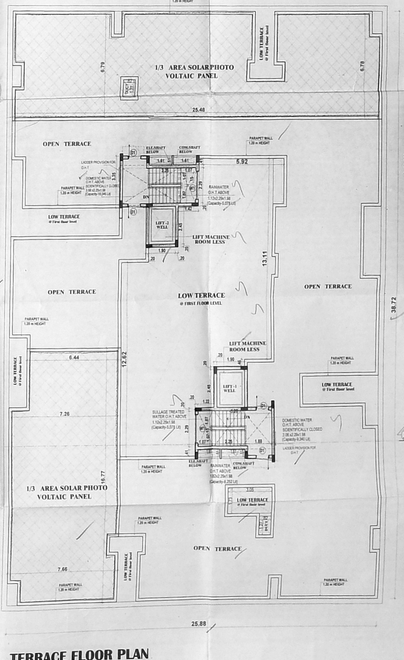


SITE CUM STILT FLOOR PLAN



FIRST FLOOR PLAN

TYPICAL FLOOR PLAN (2ND,3RD, 4TH & 5TH FLOOR)



TERRACE FLOOR PLAN

PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT + 5 FLOORS RESIDENTIAL BUILDING WITH 40 DWELLING UNITS AFFORDABLE HOUSING AT ROJA THOTTAM MAIN ROAD, NEAR TAN AVENUE, RAJAKILPAKKAM COMPRISED IN OLD S.NO.165/1, NEW S.NO:166/1A2 OF RAJAKILPAKKAM VILLAGE WITHIN THE LIMIT OF SEMBAKKAM MUNICIPALITY.

JOINERY DETAILS

RS	ROLLING SHUTTER	2.80 x 2.13
MD	DOOR	1.00 x 2.13
OP	OPENING	1.22 x 2.13
OP1	OPENING	0.86 x 2.13
OP2	OPENING	0.76 x 2.13
D1	DOOR	0.91 x 2.13
D2	DOOR	0.76 x 2.13
FD	DOOR	2.44 x 2.13
FW	WINDOW	4.00 x 1.98
W	WINDOW	1.83 x 1.52
W1	WINDOW	1.22 x 1.52
W2	WINDOW	0.91 x 1.52
W3	WINDOW	1.07 x 1.52
W4	WINDOW	0.76 x 1.52
W5	WINDOW	0.76 x 1.52
KW	KITCHEN WINDOW	1.83 x 0.91
KW1	KITCHEN WINDOW	1.52 x 0.91
KW2	KITCHEN WINDOW	1.22 x 0.91
V1	VENTILATOR	0.61 x 0.91
V2	VENTILATOR	0.61 x 0.61
EXT	EXHAUST FAN	1.00 x 0.61

SCALE - 1 : 100

ALL DIMENSION ARE IN METRE

COLOUR INDEX :-
PROPOSED
BOUNDARY
ROAD

AREA STATEMENT

PLOT EXTENT	SQ.M
AS PER PATTA	1600.00
AS PER DOCUMENT	1618.73
STILT FLOOR	79.49
FIRST FLOOR	779.39
SECOND FLOOR	779.39
THIRD FLOOR	779.39
FOURTH FLOOR	779.39
FIFTH FLOOR	779.39
TOTAL AREA	3976.44
F.S.I	2.485
NO OF CARS PROVIDED	40 Nos.
NO OF TWO WHEELER	11 Nos.
NO OF DWELLING UNITS	40 UNITS

DESIGN CALCULATION FOR	SEPTIC TANK WITH UP FLOW FILTER
No Of Dwellings	= 40 Dwellings
No Of Users	= 40 x 5 = 200 Nos
Total Number of Fixtures	= 80 Units
Assume a Peaking Factor 6 Litres per Fixture unit 80 x 6	= 480 Litres Per Minute
SEPTIC TANK	
Surface Area Required for Septic Tank	= 480 x 0.92 / 10 = 44.16 M²
Volume of Free Board	= 44.16 x 0.30 = 13.25 M³
Volume of Digestation	= 235 x 0.632 = 7.50 M³
Volume of Sludge	= 480 x 365 x 0.0042 = 36.80 M³
Volume of Sedimentation	= 44.16 x 0.30 = 13.25 M³
TOTAL VOLUME	= 113.27 M³
Depth of Septic Tank	= 113.27 / 44.16 = 2.56 M
Required Depth	= Say 2.56 M
Provided Depth	= 2.56 M
Ratio of Length and Breath	= 2 : 1
Size of Septic Tank Required	= 3.509m x 1.755M x 1.75M L x B x H
UPFLOW FILTER	
Up Flow Capacity Required	= 480 x 0.04 = 19.20 M³
Depth Assumed	= 2.00 M
Hence Area of Final Effluent Surface Required	= 19.20 / 2.00 = 9.60 M²
Therefore Area of Final Effluent Surface Provided	= 4.00 M
Size of Final Effluent Collection Sump Required	= 2.00mx3.00mx2.00M =12.00M³
Therefore Size of Final Effluent Collection Sump Provided	= 2.00mx3.00mx2.00M =12.00M³
Size of Upflow Filter I Provided	= 1.00M x 3.00M x 1.00M
Size of Upflow Filter II Provided	= 1.00M x 3.00M x 1.00M
Provided Length of Septic Tank	= 7.02 M
Provided Breadth of Septic Tank	= 3.00 M
Provided Depth of Septic Tank	= 2.50 M

OWNER SIGNATURE :-

D. J. SURESH
B.Arch., M.Arch.
Registered Architect
Plot No. 555, VGP Layout, Velachery Main Road, Pallikaranai, Chennai - 600 100.
Mob. No.: 98410 - 41 - 41 / 98410 - 41 - 42
Reg. No.: A/2013/50129

STRUCTURAL SIGNATURE :-

REENA MARY LYDIA P.B.ARCH.
COUNCIL OF ARCHITECTURE REG. NO. CA/2010/51000
DATE OF REGISTRATION 16.09.2010
CONSULTING ARCHITECT & STRUCTURAL ENGINEER
CONSULTING ENGINEER & ARCHITECT
OFFICE: 2374, 23 Floor, Gandhi Nagar, Road 3, Kodungaiyur, Chennai - 600 078.

LICENSED SURVEYOR :-