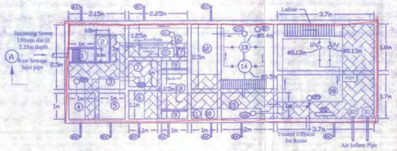
Compound Plan

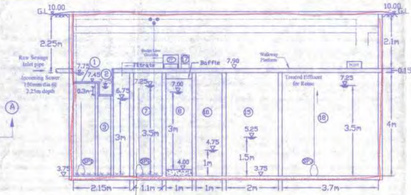
PROPOSED SEWAGE TREATMENT PLANT OF 0.04 MLD CAPACITY
Moving Bed bio - film reactor (MBBR)



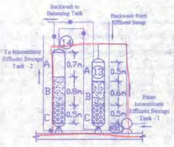
PLAN@G.L



PLAN



SECTION A-A



DETAILS OF FILTERS

LEGEND:
1. SCREEN CHAMBER
2. GRIT CHAMBER
3. EQUALISING TANK
4. ANAEROBIC TANK
5. ANOXIC TANK
6. AEROBIC TANK (BOD REDUCTION)
7. AEROBIC TANK (NITRIFICATION)
8. SEDIMENTATION TANK
9. EFFLUENT LAUNDER
10. DISSINFECTION TANK
11. CHLORINE DOSING TANK
12. INTERMITTENT EFFLUENT STORAGE TANK - 1
13. PRESSURE SAND FILTER
A.Inlet Board, B.Filtering Media, C.Pebble
14. ACTIVATED CARBON FILTER
A.Inlet Board, B.Filtering Media, C.Pebble
15. INTERMITTENT EFFLUENT STORAGE TANK - 2
16. SLUDGE COLLECTION TANK
17. POLYELECTROLYTE DOSING TANK
18. EFFLUENT TANK
UV. ULTRA VIOLET TREATMENT
PB. PANEL BOARD
AV. AIR VENT
FP. FILTER PRESS WITH POT LINE MODULE
PDDT. POST DISCHORGATION DOSING TANK
SPT. SUBMERSIBLE PUMP, 1.25 cu.mtrs @ 12m
SL. SLUDGE PUMP - 10 cu.mtrs @ 10m
SPS & SPD. SUBMERSIBLE PUMP
MBT & MB2. MONOBLOCK PUMP - 1.70 cu.mtrs @ 12m
DP. DRAIN PUMP
B1. AIR BLOWER FOR DIFFUSED AERATION
B2. AIR BLOWER FOR AIR CIRCULATION SYSTEM.
G1 & G2. GENSET IN METRES
RAW SEWAGE LINE (600mm dia)
EFFLUENT LINE (150mm dia)
SLUDGE LINE (100mm dia)
AIR LINE (25mm dia)
DUCT PROVIDED FOR AIR
CIRCULATION IN BASEMENT
DIFFUSED AIR ARRANGEMENTS

PROPOSED LOCATION AND ACCESS POINTS:
The treatment units are proposed to be constructed below GL with access from Manhole opening provided at ground level. The panel board and air blowers are to be placed on the platform of STP. The air inflow pipe to blowers and air vent pipe to be laid below drive way and fixed in the compound wall for air circulations.

Raw Sewage Characteristics - TABLE -1:

	Parameters	Values
1	Biochemical Oxygen Demand	250 mg/l
2	Chemical Oxygen Demand	700 mg/l
3	Total Suspended Solids	450 mg/l
4	Total Kjeldahl Nitrogen (as N)	45 mg/l
5	Total Phosphorous	5 mg/l
6	Faecal Coliform	10^6 MPN/100 ml
7	pH	6.6 - 8.5

Characteristics of Treated effluent - TABLE -2:

	Parameters	Values
1	BOD	≤ 10 mg/l
2	COD	≤ 50 mg/l
3	Total Suspended Solids (TSS)	Nil
4	Total Kjeldahl Nitrogen (as N)	≤ 15 mg/l
5	Dissolved Phosphorous as P	≤ 1 mg/l
6	Faecal Coliform in 100ml	Nil
7	pH	6.5 - 8.5
8	Minimum Residual Chlorine	2 mg/l

DESIGN DATA:
Total FSI Area - 18182.76 Sq.m
Proposed Occupants - 1010 nos
Rate of water supply - 45 lpcd
Water Consumption - 45450 LPD
Sewage generation - 36360 LPD
Proposed capacity of STP - 0.04 MLD



COMPOUND WALL DETAIL

AREA STATEMENT (Area in sq.m)

PLOT AREA AS PER DOCUMENT	- 4046.00
PLOT AREA AS PER PATTA	- 4430.00
SUPER IMPOSED LEAST PLOT AREA	- 4019.25

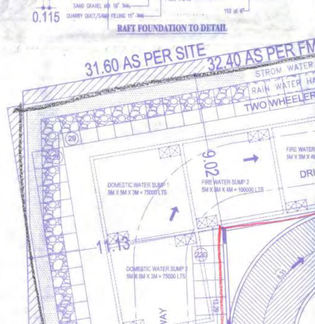
FLOORS	TOTAL AREA	PARKING	DEDUCTIONS	10% NON FSI AREA	100% NON FSI AREA	FSI AREA
BF-1	1588.69	1432.88	18.15	70.40	67.26	0.00
FLOOR-STILT	1635.52	1346.08	22.29	160.29	67.63	39.23
FLOOR 01	1360.96		82.70	86.75	51.30	1140.21
FLOOR02	1360.95		48.32	86.75	51.30	1174.58
FLOOR 03	1360.95		48.32	86.75	51.30	1174.58
FLOOR 04	1360.95		48.32	86.75	51.30	1174.58
FLOOR 05	1360.95		48.32	86.75	51.30	1174.58
FLOOR 06	1360.95		48.32	86.75	123.95	1102.53
FLOOR 07	1360.95		48.32	86.75	51.30	1174.58
FLOOR 08	1360.95		48.32	86.75	51.30	1174.58
FLOOR 09	820.80		22.57	49.50	43.26	705.47
TOTAL	14932.62	2778.96	483.95	974.19	660.60	10034.92

FSI = 2.497

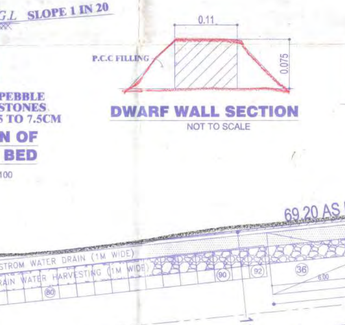
PLOT COVERAGE = 29.22%

TOTAL CAR PARKING PROVIDED = 84 nos

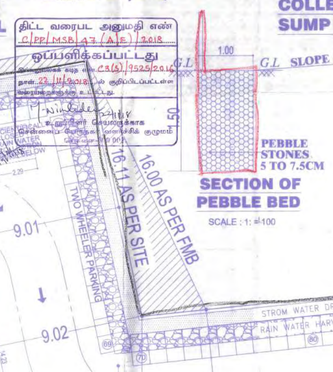
TOTAL TWO WHEELERS PARKING PROVIDED = 341 nos



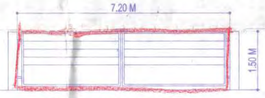
SULLAGE WATER COLLECTION SUMP DETAIL



RAIN WATER COLLECTION SUMP DETAIL



DWARF WALL SECTION
NOT TO SCALE



GATE DETAIL

SHEET NO: 01/05

JOB TITLE

PLAN SHOWING THE PROPOSED OFFICE BUILDING AT OLD DOOR NO: 11-G, NEW DOOR NO. 13, MOUNT POONAMALLEE ROAD, NANDAMBAKKAM, CHENNAI - 600 089, COMPRISED IN OLD S.NOS: 33/2 & 33/3 (AS PER DOCUMENT), NEW SURVEY NO: 33/2C2B, 33/2C2C & 33/3C2, NANDAMBAKKAM VILLAGE, ALANDUR TALUK, KANCHEEPURAM DISTRICT, GREATER CHENNAI CORPORATION ZONE: 12, DIVISION: 158,

SCHEDULE OF JOINERY

TYPE	DESCRIPTION	SIZE
D1	DOOR	1500 x 2400
D2	DOOR	1200 x 2400
D3	DOOR	1000 x 2400
D4	DOOR	900 x 2400
SD	SLIDING DOOR	1800 x 2400
W	WINDOW	3000 x 1800

NORTH POINT

N

COLOUR INDICATION
PROPOSED BUILDING
PLOT BOUNDARY
ACCESS ROAD

ARCHITECT :
nataraj & venkat Architects,
No:18, Third Seaward Road, Valmiki Nagar, Thiruvanmiyur, Chennai - 600 041.
Phone :T- 044 2457 2457,

DRAWING TITLE

SITE PLAN WITH STILT FLOOR PLAN WITH STP DETAILS

SCALE : 1:100

OWNER'S SIGNATURE

STRUCTURAL ENGINEER

N.Balamurugan.
N.CHANDRU, M.E.,(STRL.ENGG.,(PHOTOGRAPHY)
Structural Engineer
Class-I, Licence Surveyor No. 1866
22A, 1ST ROAD,
VIGNARAJA PURAM,
MADIPAKKAM,
CHENNAI-600 091.

LICENSED SURVEYOR

(25)
(B|E)

1st Floor Level
Stilt Floor Level
F.G.L
Road Level
Basement Floor Level
CAR PARKING
RAMP UP TO STILT FLOOR SLOPE 1 IN 8

TYPICAL RAMP SECTION

உள்ளாட்சி மன்றப் படி

திட்ட வரைபட அனுமதி எண்
CPP/MSB/47/(B.E.)/2018
ஒப்பளிக்கப்பட்டது
இவ்வலுவலகக் கடித எண்ணு C(1)/35251/2018
நாள் 22/11/2018 ன் குறிப்பிடப்பட்டள்ள
உரிமையாளருக்கு உரிமம்
உறுப்பினர் செயலருக்காக
சென்னைப் பெருநகர் வளர்ச்சிக் குழுமம்
சென்னை-600 008.

RAMP UP TO STILT FLOOR SLOPE 1 IN 8
PUMP ROOM
LUMBER ROOM
STAIRCASE
Tread - 0.30
Riser - 0.15
Wide - 1.75
UP
PREF DUCT
SERVICE LIFT
DUCT ABOVE
AHU ROOM
RAMP DOWN FROM STILT FLOOR SLOPE 1 IN 8
TWO WHEELER PARKING
MAIN STAIRCASE
DRIVEWAY 6.0m
MECH VENTILATION

BASEMENT FLOOR PLAN

OPEN TERRACE AT FIRST FLOOR LEVEL
FIRE ESCAPE STAIRCASE
ELECTRICAL ROOM
LOBBY
AHU ROOM
OFFICE SPACE
AIR CONDITIONED SPACE
STRUCTURAL GLAZING
OPEN TERRACE AT FIRST FLOOR LEVEL
PC TOILET
GENTS TOILET
LADIES TOILET
JAN.
DUCT
SPARE
DATA
FHC
LIFT LOBBY
ENT.LOBBY BELOW
LIFT
PROVISION FOR PHYSICALLY HANDICAPPED WITH WHEEL CHAIR

FIRST FLOOR PLAN

SHEET NO: 02/05

JOB TITLE

PLAN SHOWING THE PROPOSED OFFICE BUILDING AT OLD DOOR NO: 11-G, NEW DOOR NO. 13, MOUNT POONAMALLEE ROAD, NANDAMBAKKAM, CHENNAI - 600 069. COMPRISED IN OLD S.NOS: 33/2 & 33/3 (AS PER DOCUMENT), NEW SURVEY NO: 33/2C2B, 33/2C2C & 33/3C2, NANDAMBAKKAM VILLAGE, ALANDUR TALUK, KANCHEEPURAM DISTRICT,
GREATER CHENNAI CORPORATION
ZONE: 12, DIVISION: 158,

SCHEDULE OF JOINERY

TYPE	DESCRIPTION	SIZE
D	DOOR	1500 x 2400
D1	DOOR	1200 x 2400
D2	DOOR	1000 x 2400
D3	DOOR	600 x 2400
SD	SLIDING DOOR	1000 x 2400
W	WINDOW	3000 x 1800

NORTH POINT

N

COLOUR INDICATION
PROPOSED BUILDING
PLOT BOUNDARY
ACCESS ROAD

ARCHITECT :
nataraj & venkat Architects,
No:18, Third Seaward Road, Valmiki Nagar,
Thiruvanmiyur, Chennai - 600 041.
Phone : T- 044 2457 2457,

DRAWING TITLE

BASEMENT FLOOR PLAN AND FIRST FLOOR PLAN

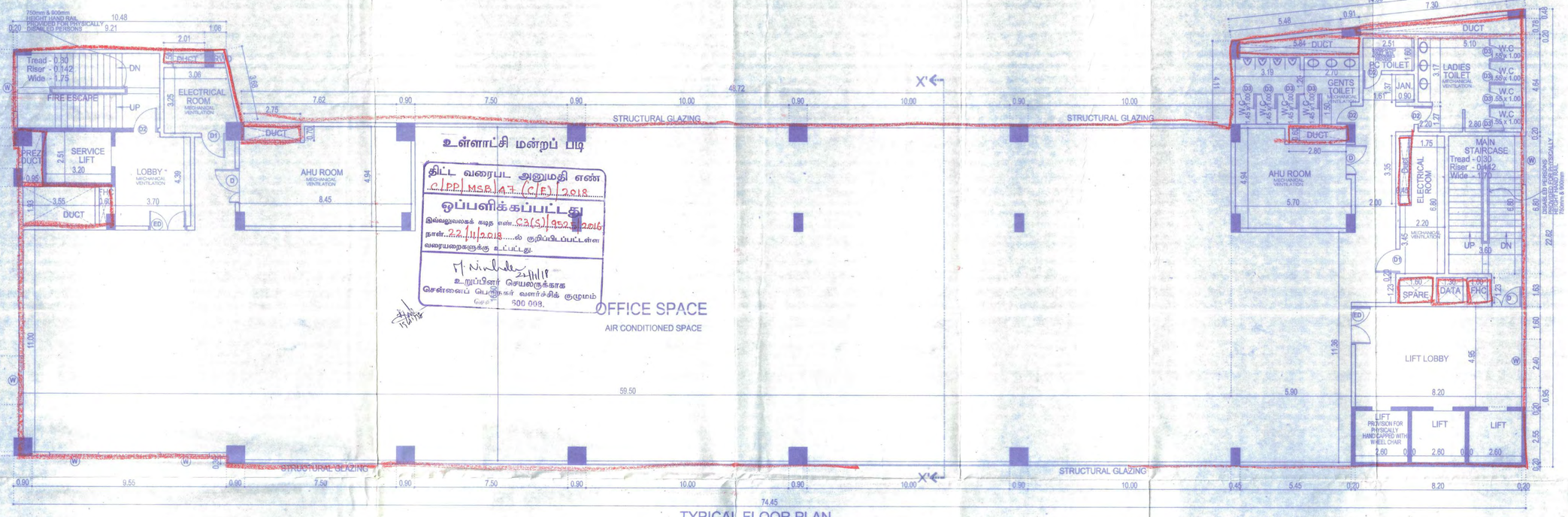
SCALE : 1:100

OWNER 'S SIGNATURE

STRUCTURAL ENGINEER

N.CHANDRU, B.E. (CIVIL), M.E. (STRUCTURES)
Structural Engineer
Class-1, Licensed Surveyor No. 1806
A20, 100 FEET ROAD, HINDU COLONY,
NANGANALLUR, CHENNAI - 600 061.
Email : chandru@somadevnagesh.in
Mobile : 98407 67580

LICENSED SURVEYOR



TYPICAL FLOOR PLAN
(2ND,3RD,4TH,5TH, 7TH & 8TH FLOORS)

உள்ளாட்சி மன்றப் படி

திட்ட வரைபட அனுமதி எண்
0/PP/MSB/47/(C/F)/2018

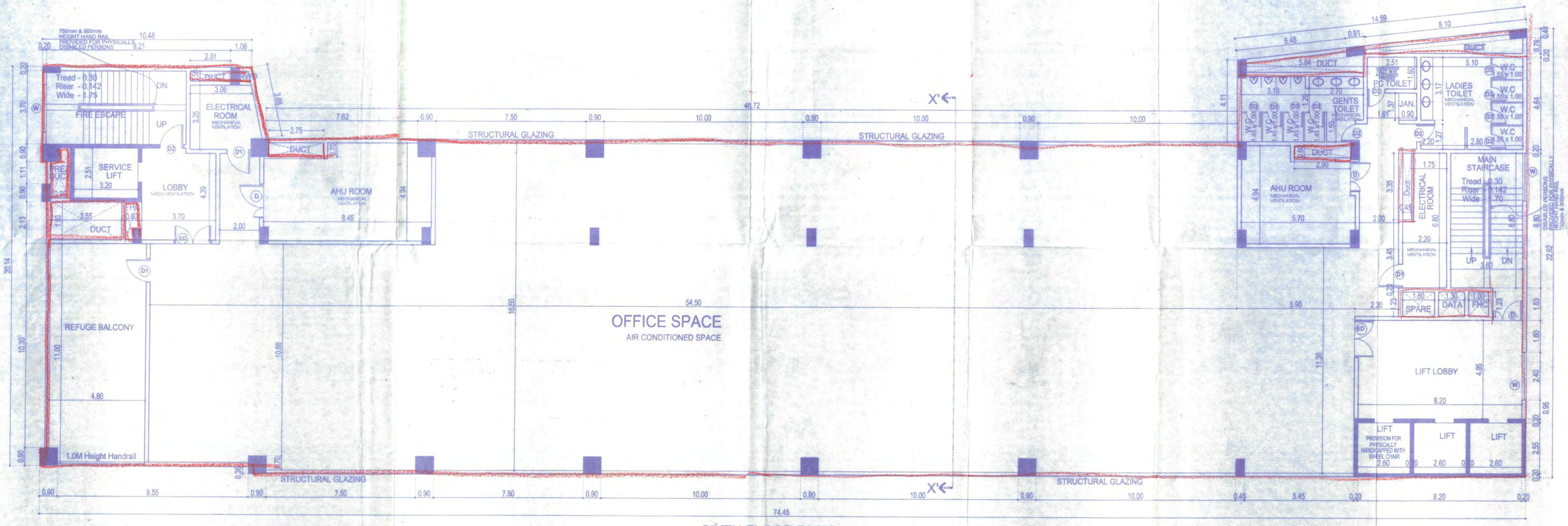
ஒப்பளிக்கப்பட்டது

இவ்வலுவலகக் கடித எண். C2(S)/952/2018

நாள்..22/11/2018.....ல் குறிப்பிடப்பட்டுள்ள வரையறைகளுக்கு உட்பட்டது.

22/11/18

உறுப்பினர் செயலருக்காக
சென்னைப் பெருநகர் வளர்ச்சிக் குழுமம்
500 008.



SIXTH FLOOR PLAN

SHEET NO: 03/05

JOB TITLE

PLAN SHOWING THE PROPOSED OFFICE BUILDING AT OLD DOOR NO: 11-G, NEW DOOR NO. 13, MOUNT POONAMALLEE ROAD, NANDAMBAKKAM, CHENNAI - 600 069. COMPRISED IN OLD S.NOS: 33/2 & 33/3 (AS PER DOCUMENT), NEW SURVEY NO: 33/2C2B, 33/2C2C & 33/3C2, NANDAMBAKKAM VILLAGE, ALANDUR TALUK, KANCHEEPURAM DISTRICT,

GREATER CHENNAI CORPORATION
ZONE: 12, DIVISION: 158,

SCHEDULE OF JOINERY

TYPE	DESCRIPTION	SIZE
D	DOOR	1500 x 2400
D1	DOOR	1200 x 2400
D2	DOOR	1000 x 2400
D3	DOOR	600 x 2400
SD	SLIDING DOOR	1000 x 2400
W	WINDOW	3000 x 1800

NORTH POINT

N

COLOUR INDICATION

PROPOSED BUILDING

PLOT BOUNDARY

ACCESS ROAD

ARCHITECT :

nataraj & venkat Architects,

No:18, Third Seaward Road, Valmiki Nagar, Thiruvanmiyur, Chennai - 600 041.
Phone : T- 044 2457 2457,

DRAWING TITLE

TYPICAL FLOOR PLAN (2ND,3RD,4TH,5TH, 7TH & 8TH FLOORS) SIXTH FLOOR PLAN

SCALE : 1:100

OWNER 'S SIGNATURE

STRUCTURAL ENGINEER

N.CHANDRU, B.E. (CIVIL), M.E. (STRUCTURES)
Structural Engineer
Class-I, Licensed Surveyor No. 1806
A20, 100 FEET ROAD, HINDU COLONY,
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Email : chandru@somasilvaagesh.in
Mobile : 98407 67580

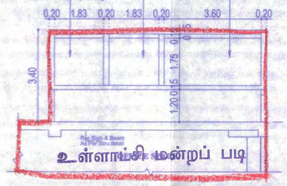
LICENSED SURVEYOR

(4/5)
(D/E)

Scientifically Closed
Rain Water Tank Above
1.83 x 2.31 x 1.75 = 7397 Lts Capacity

Scientifically Closed
Treated Sullage Water Tank Above
1.83 x 2.31 x 1.75 = 7397 Lts Capacity

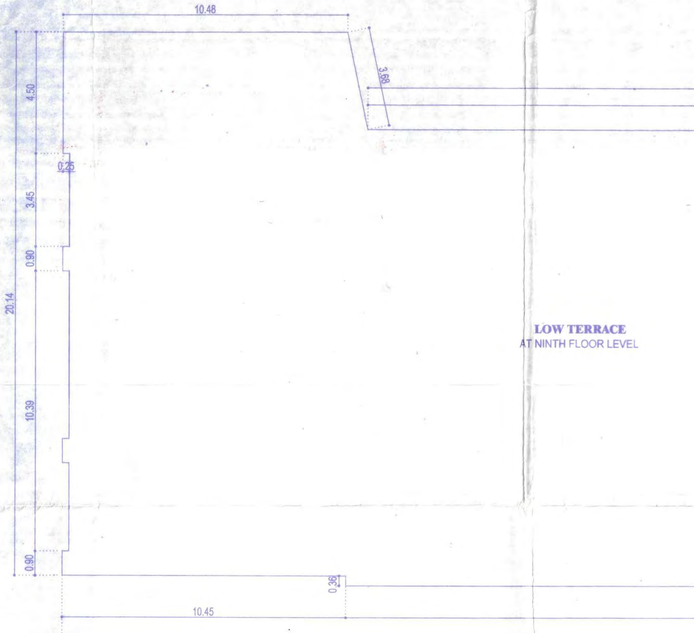
Scientifically Closed
Domestic Water Tank Above
3.60 x 2.31 x 1.75 = 14553 Lts Capacity



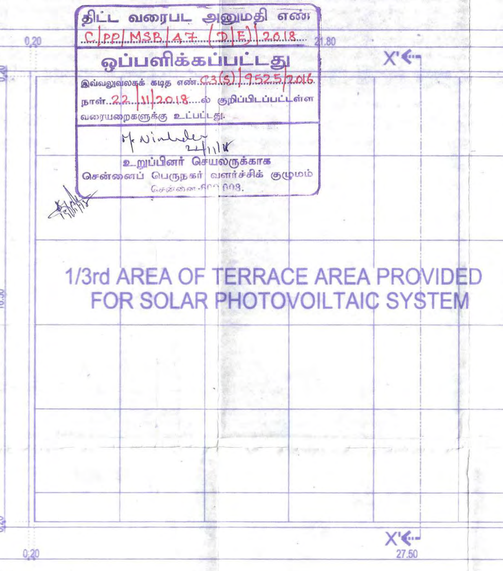
WATER TANK SECTION - Y'-Y'

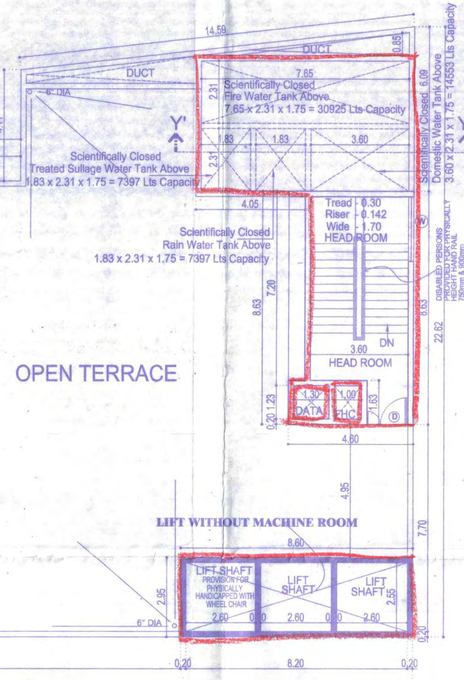
திட்ட வரைபட அனுமதி எண்:
CMDA/MSB/AS/(D/E)/2018
ஒப்பளிக்கப்பட்டது
இவ்வலுவலகக் கடித எண்.C3(E)/152/2018
நாள்.22/11/2018 ல் குறிப்பிடப்பட்டுள்ள
வரையறைகளுக்கு உட்பட்டது.
உறுப்பினர் செயலருக்காக
சென்னைப் பெருநகர் வளர்ச்சிக் குழுமம்
தலைமைச் செயலகம்.

1/3rd AREA OF TERRACE AREA PROVIDED
FOR SOLAR PHOTOVOILTAIC SYSTEM

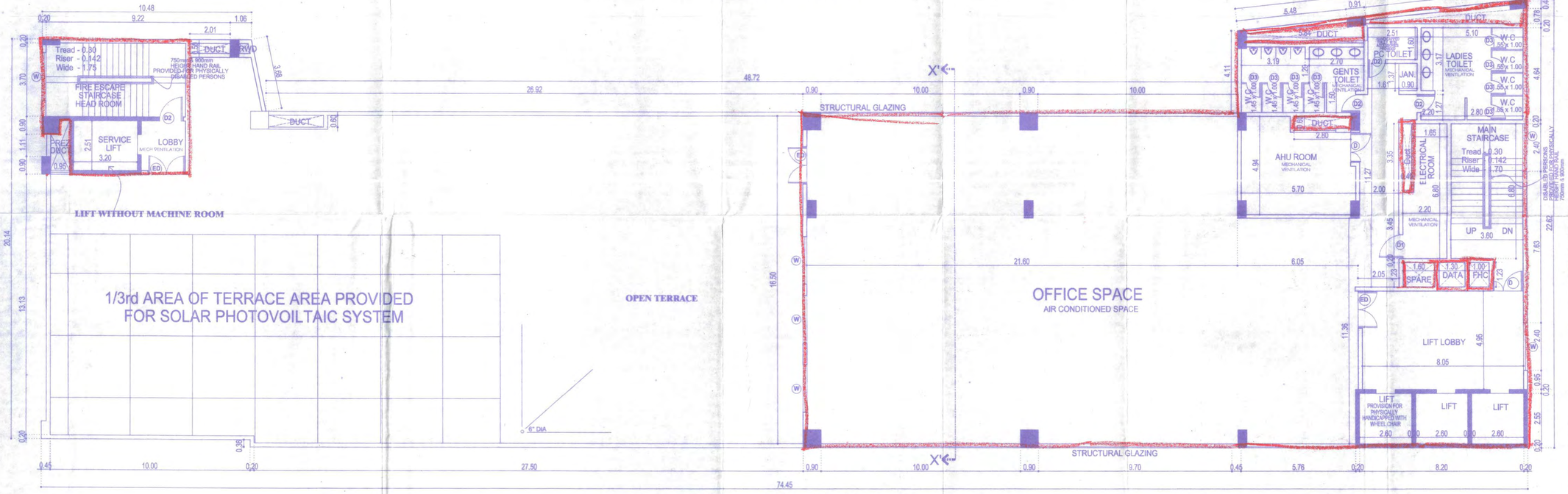


TERRACE FLOOR PLAN





OPEN TERRACE



NINTH FLOOR PLAN (PART)

SHEET NO: 04/05

JOB TITLE

PLAN SHOWING THE PROPOSED OFFICE BUILDING AT OLD DOOR NO: 11-G, NEW DOOR NO. 13, MOUNT POONAMALLEE ROAD, NANDAMBAKKAM, CHENNAI - 600 069. COMPRISED IN OLD S.NOS: 33/2 & 33/3 (AS PER DOCUMENT), NEW SURVEY NO: 33/2C2B, 33/2C2C & 33/3C2, NANDAMBAKKAM VILLAGE, ALANDUR TALUK, KANCHEEPURAM DISTRICT, GREATER CHENNAI CORPORATION ZONE: 12, DIVISION: 158,

SCHEDULE OF JOINERY

TYPE	DESCRIPTION	SIZE
D	DOOR	1500 x 2400
D1	DOOR	1200 x 2400
D2	DOOR	1000 x 2400
D3	DOOR	600 x 2400
SD	SLIDING DOOR	1000 x 2400
W	WINDOW	3000 x 1800

NORTH POINT



COLOUR INDICATION

PROPOSED BUILDING

PLOT BOUNDARY

ACCESS ROAD

ARCHITECT :

nataraj & venkat Architects,

No:18, Third Seaward Road, Valmiki Nagar, Thiruvanmiyur, Chennai - 600 041.
Phone : T- 044 2457 2457,

DRAWING TITLE

NINTH FLOOR PLAN(PART) AND TERRACE FLOOR PLAN

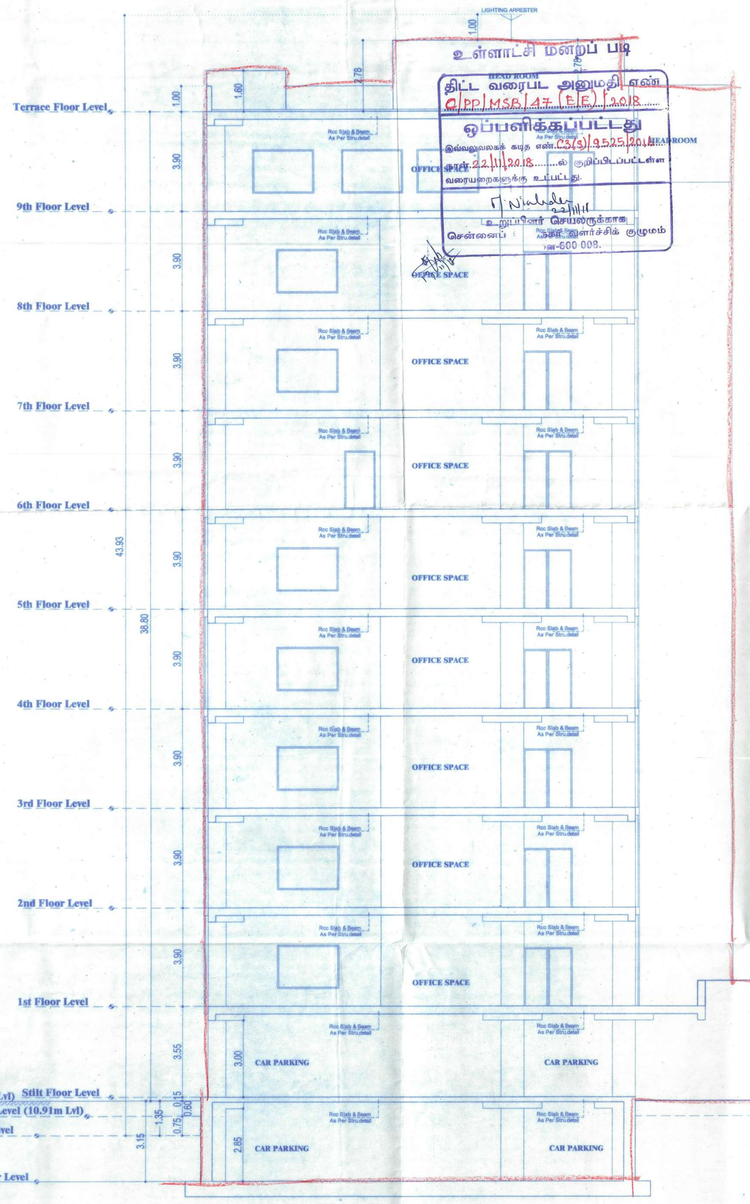
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OWNER 'S SIGNATURE

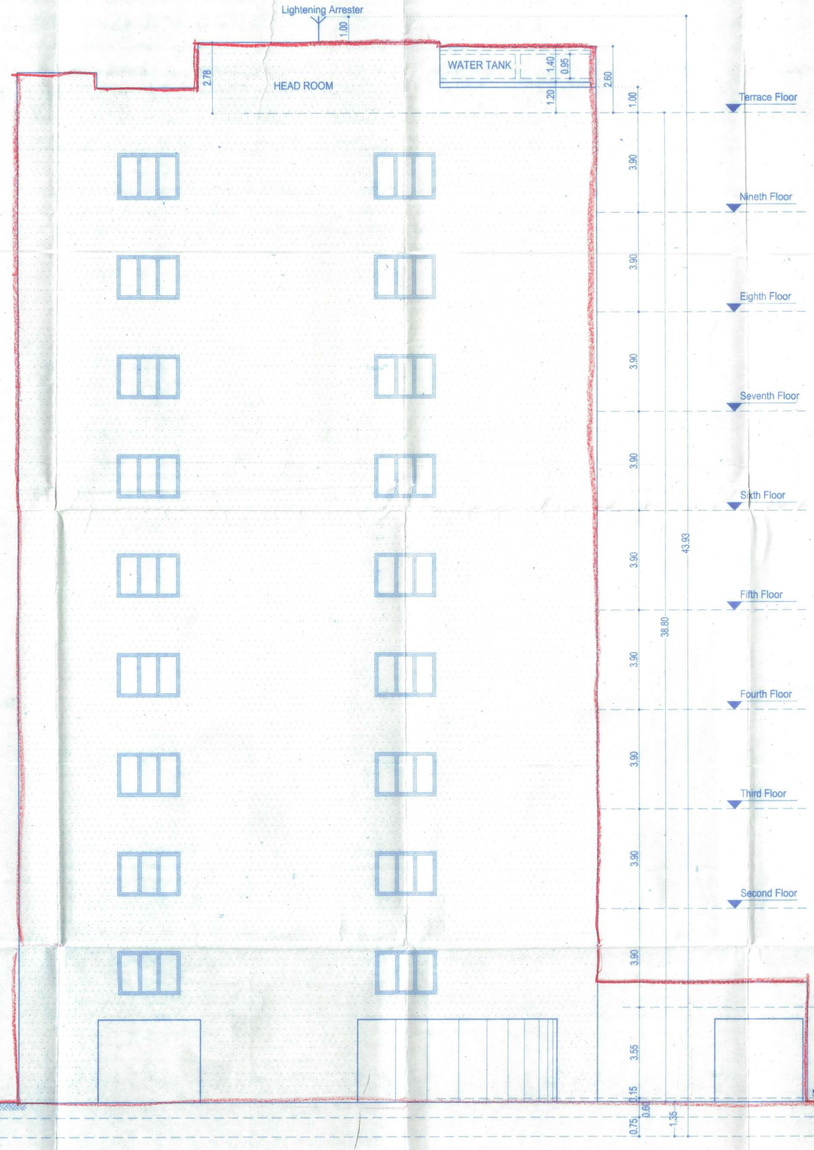
STRUCTURAL ENGINEER

N.CHANDRU, B.E. (CIVIL), M.E. (STRUCTURES)
Structural Engineer
Class-I, Licensed Surveyor No. 1806
A20, 100 FEET ROAD, HINDU COLONY,
NANGANALLUR, CHENNAI - 600 061.
Email : chandru@somadevnagesh.in
Mobile : 98407 67580

LICENSED SURVEYOR



SECTION AT 'XX'



SOUTH SIDE ELEVATION

SHEET NO: 05/05

JOB TITLE

PLAN SHOWING THE PROPOSED OFFICE BUILDING AT OLD DOOR NO: 11-G, NEW DOOR NO. 13, MOUNT POONAMALLEE ROAD, NANDAMBAKKAM, CHENNAI - 600 069. COMPRISED IN OLD S.NOS: 33/2 & 33/3 (AS PER DOCUMENT), NEW SURVEY NO: 33/2C2B, 33/2C2C & 33/3C2, NANDAMBAKKAM VILLAGE, ALANDUR TALUK, KANCHEEPURAM DISTRICT,
GREATER CHENNAI CORPORATION
ZONE: 12, DIVISION: 158,

SCHEDULE OF JOINERY

TYPE	DESCRIPTION	SIZE
D	DOOR	1000 x 2400
D1	DOOR	1200 x 2400
D2	DOOR	900 x 2400
D3	DOOR	800 x 2400
SD	SLIDING DOOR	1000 x 2400
W	WINDOW	3000 x 1800

NORTH POINT

N

COLOUR INDICATION

PROPOSED BUILDING

PLOT BOUNDARY

ACCESS ROAD

ARCHITECT :

nataraj & venkat Architects,

No:18, Third Seaward Road, Valmiki Nagar,
Thiruvanmiyur, Chennai - 600 041.
Phone : T- 044 2457 2457,

DRAWING TITLE

SECTION AT 'XX' AND SOUTH SIDE ELEVATION

SCALE : 1:100

OWNER 'S SIGNATURE

STRUCTURAL ENGINEER

N.CHANDRU, B.E. (CIVIL), M.E. (STRUCTURES)
Structural Engineer
Class-I, Licensed Surveyor No. 1806
A20, 100 FEET ROAD,
HINDU COLONY, NANGANALLUR,
CHENNAI - 600 061.

LICENSED SURVEYOR

A. VENKATAKRISHNAN, B.ARCH.,
ARCHITECT LICENSED SURVEYOR
CLASS I No. R.A.41,
No. 18, THIRD SEAWARD ROAD,
VALMIKI NAGAR, THIRUVANMIYUR,
CHENNAI-600 041. PH: 044-2457 2457

உள்ளாட்சி மனைப் பிரி

திட்ட வரைபட அனுமதி எண்
CMDA/MSB/47 (EE) /2018

ஒப்பளிக்கப்பட்டது

இவ்வலுவலகக் கடித எண். C573/9525/2018 நாள் 22/11/2018 ல் முன்மொழிப்பட்டுள்ள வரையறைகளுக்கு உட்பட்டது.

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