

PROJECT TITLE
 PROPOSED CONSTRUCTION OF OFFICE CUM RESIDENTIAL (SERVICE APARTMENT) BUILDING AT PLOT NO : 6 & 15, LAKSHMI NAGAR 1ST MAIN ROAD, PORUR, CHENNAI - 600 116. COMPRISED IN OLD S.No: 109, NEW S.No: 106/24, 109/2 & 109/7, OF PORUR VILLAGE WITHIN THE LIMIT OF GREATER CHENNAI CORPORATION.

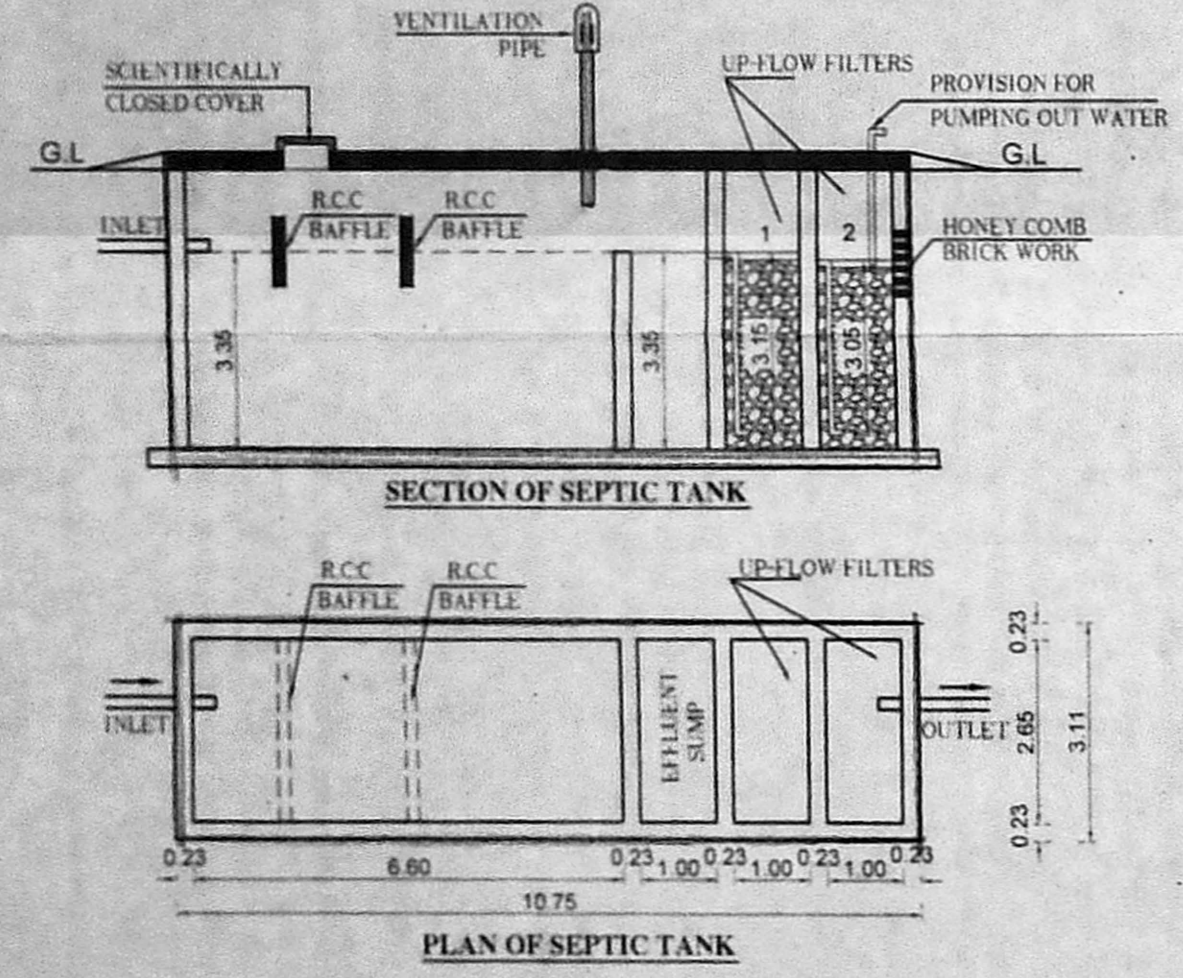
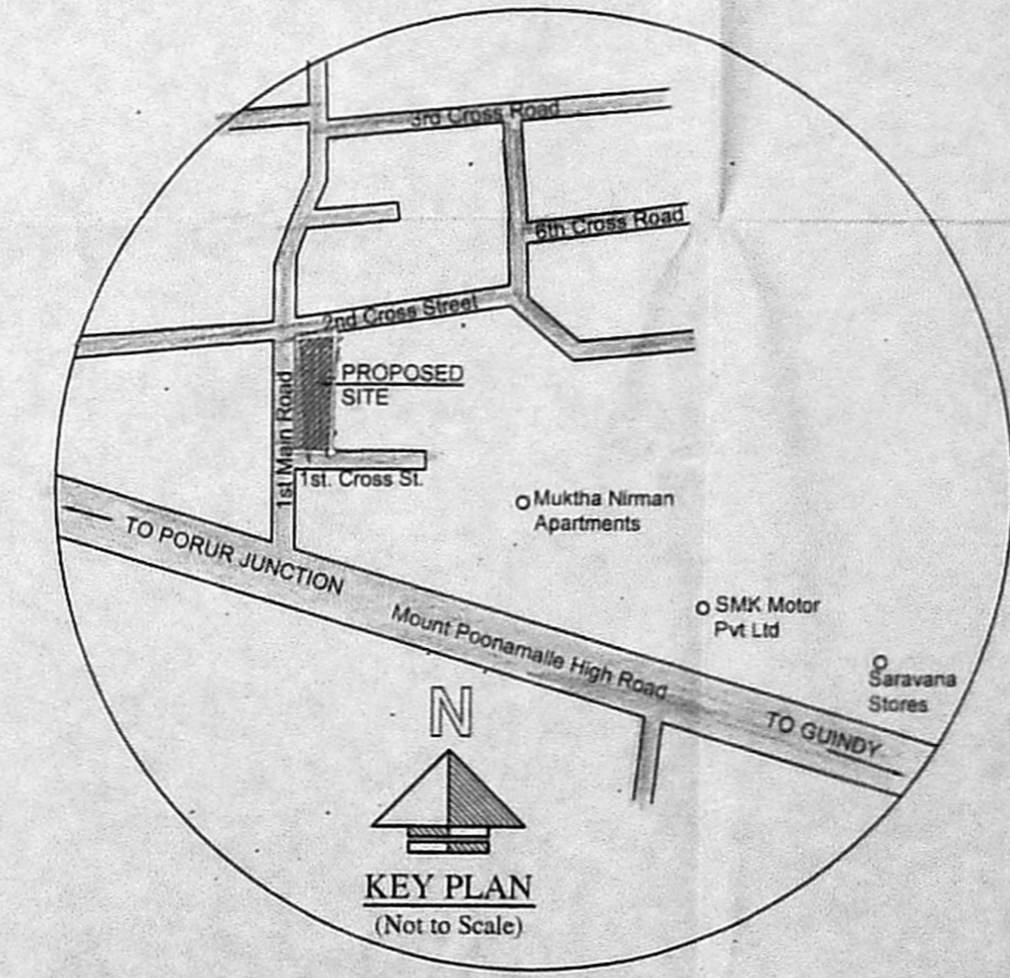
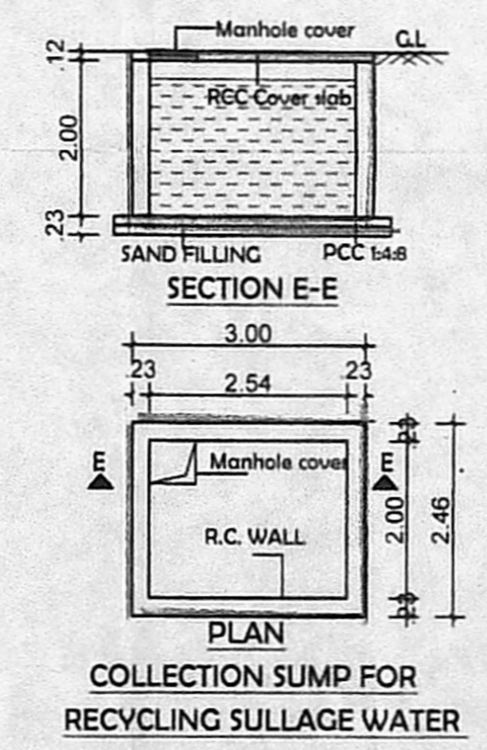
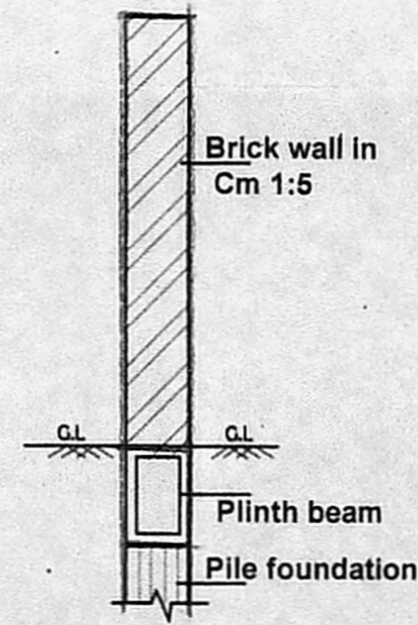
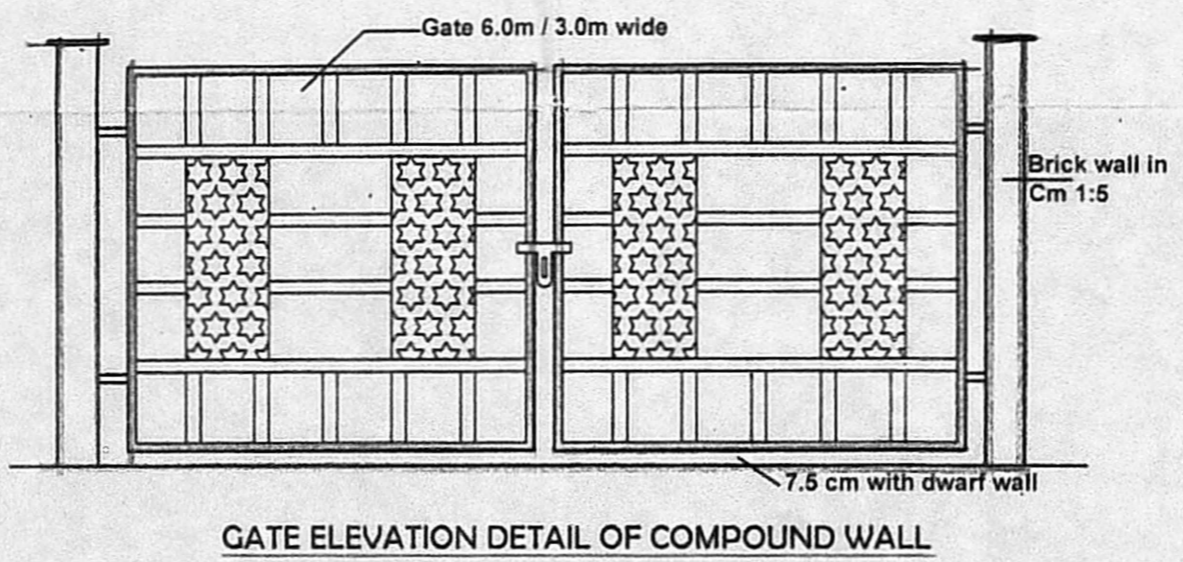
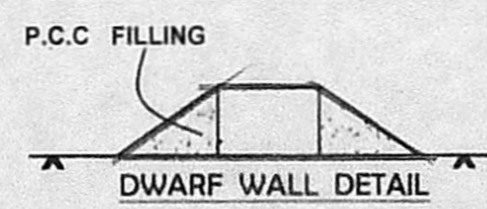
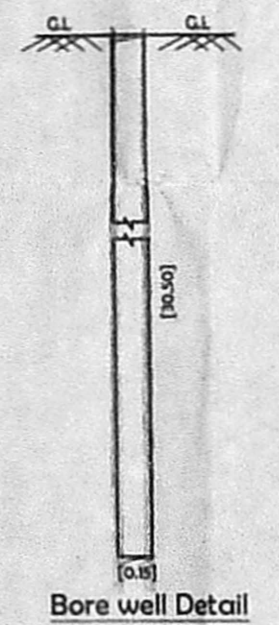
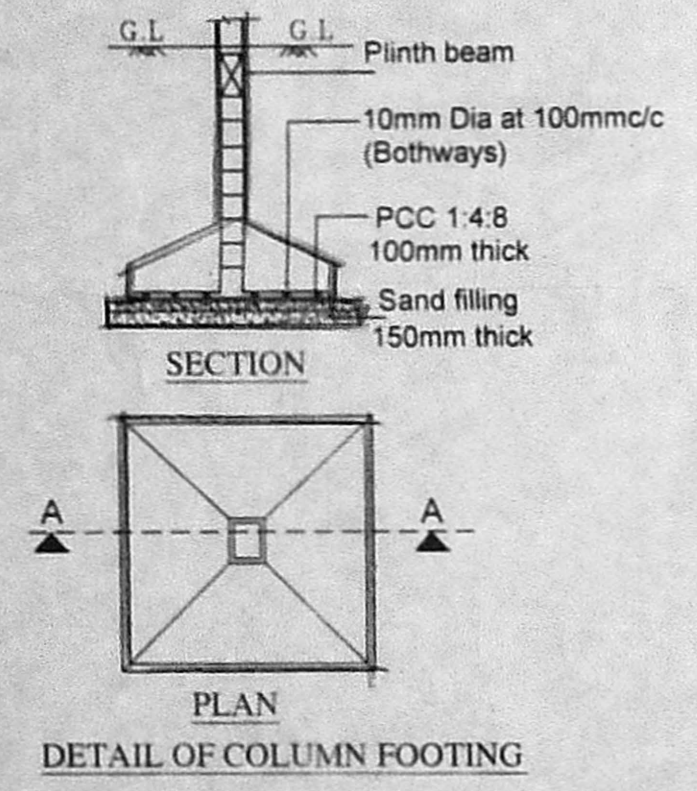
சிறுத்திய வகுப்பு
 ZONE : XI 2
 DIVISION NO. : 151
 நாள்: 21/10/2020

செ.செ.வகு (19) எண்
 ந. எண் PP/NHRB/10115/2019
 உத்தியோகம்
 கூர்ந்தாய்வு
 தி. உ. 11/10/2020
 உ. தி. 21/10/2020

GENERAL SPECIFICATION
 BRICK WORK : SUPER STRUCTURE WITH MAIN WALL USING CM 1:5 MORTAR
 PARAPET WALL CM 1:4 MORTAR
 WOOD WORK : MAIN DOOR IN TEAK AND OTHER DOORS IN KONGU WOOD
 RCC WORK : MINIMUM GRADE OF CONCRETE M25
 FLOORING : ALL ROOM CERAMICS TILES FLOORING
 EARTH WORK : ALL EARTH WORK EXCAVATION IN FOUNDATION TO BE DONE AS PER THE DIMENSION GIVEN AS IN DRAWING

SCHEDULE OF JOINERY

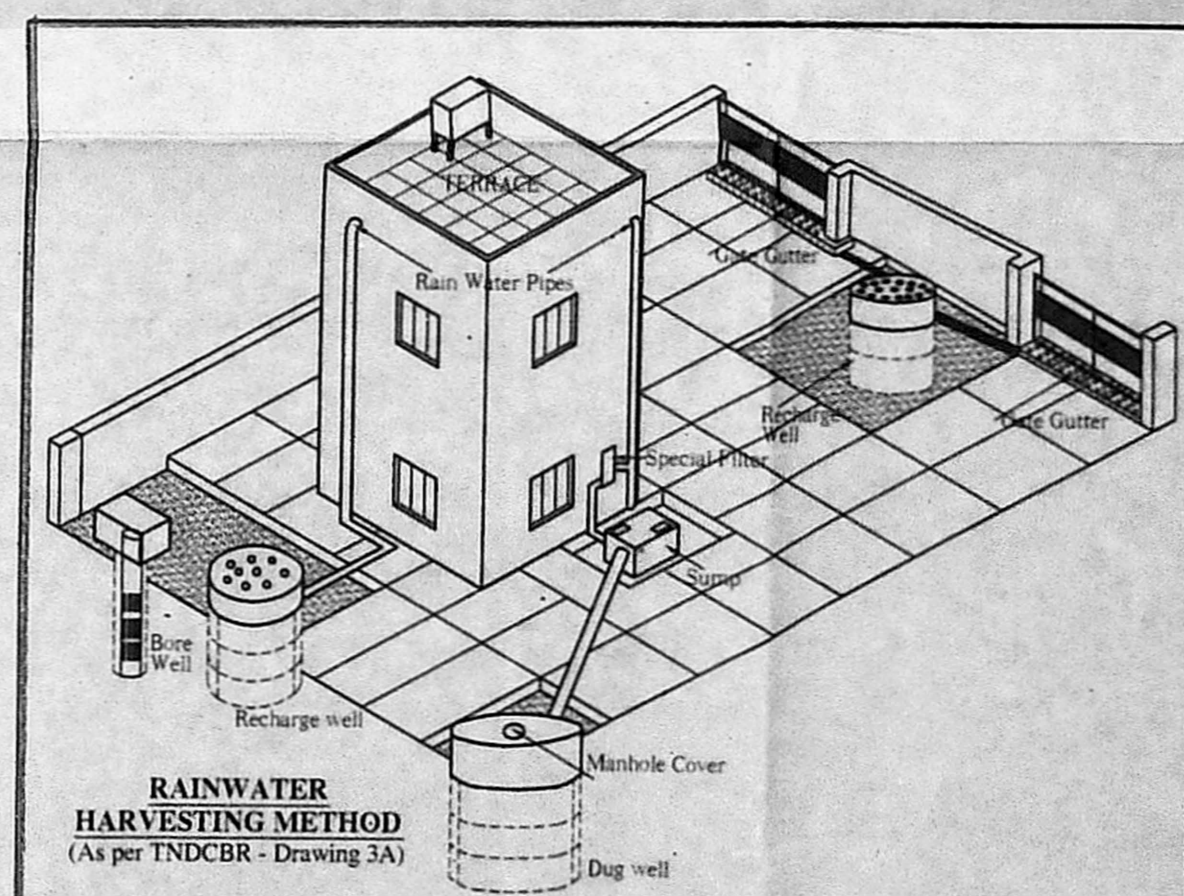
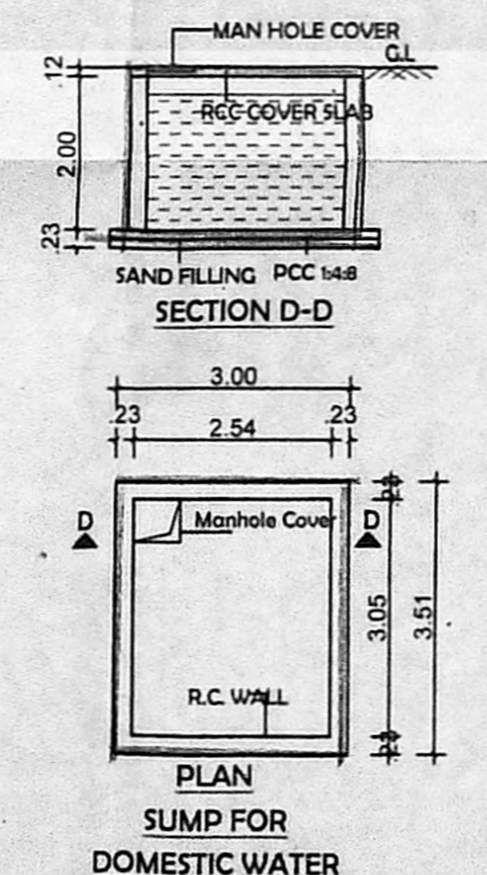
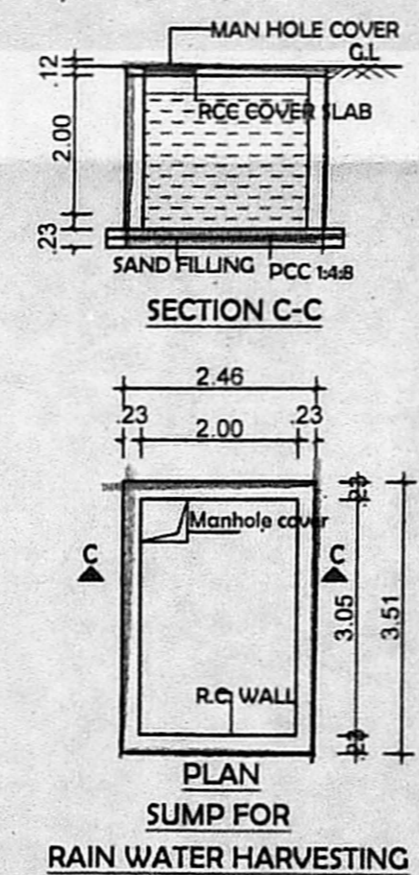
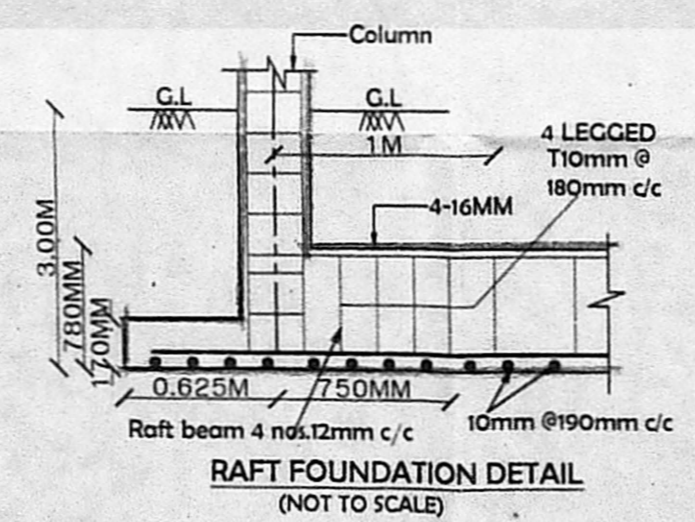
R/S	ROLLING SHUTTER	3.00x2.40
MD	MAIN DOOR	1.52x2.14
DD	MAIN DOOR1	1.52x2.14
DD1	DOOR1	1.22x2.14
D	DOOR	0.91x2.14
D1	DOOR	0.76x2.14
W	WINDOW	1.83x1.22
W1	WINDOW	1.52x1.22
V	VENTILATOR	1.44x0.76
V1	VENTILATOR	0.76x0.76



DESIGN OF UP-FLOW FILTER SEPTIC TANK
 Office Area : 444 sq.m
 Proposed occupants : 44 Nos.
 Dwellings Units (4x5) : 20 Nos.
 Total number of fixture units : 30 x 6 = 180 lpm
 Assume a peaking factor of 6lpm. per fixture unit

SEPTIC TANK
 Surface volume required for the septic tank : 180x.92/10 = 16.56 cu.m
 Volume of free board : 11.04x0.30 = 3.31 cu.m
 Volume of sedimentation : 11.04x0.30 = 3.31 cu.m
 Volume of digestion : 64x0.032 = 2.05 cu.m
 Volume of sludge : 64x365x0.002 = 46.72 cu.m
 Total volume : 55.39 cu.m
 Depth of septic tank : 55.39/16.56 = 3.34 m
 Providing length : breadth : 2.5 : 1
 Size of septic tank : 6.60x2.65x3.35

UP-FLOW FILTER
 Capacity of 64 users : 64x0.045 = 2.88 cu.m
 Depth (assumed) : 3.25 (minimum)
 Hence area of final effluent sump : 2.88/3.25 = 0.86 sq.m
 Size of final effluent sump : 1.00x2.65x3.35
 Size of up-flow filter (1) : 1.00x2.65x3.15
 Size of up-flow filter (2) : 1.00x2.65x3.05



REFERENCE
 SCALE : 1 : 100
 DATE : 30.09.2020

COLOUR INDEX

COLOUR INDEX	PROPOSED
(Blue line)	ROAD
(Red line)	BOUNDARY

OWNER
 Dr. Alex Jacob

STRUCTURAL ENGINEER
 Dr. ALEX JACOB
 B.E., M.Tech (S.E.), Ph.D (Hon),
 M.I.E. (Asst), M.I.E. (Ins)
 STRUCTURAL ENGINEER,
 41/A, BEACH ROAD, KALAMBETTA COLONY,
 CHENNAI - 600 085
 REG No. SE/AR-1/18/02/001
 REG No. RSE100392019

REGISTERED ARCHITECT
 S. Senthikumar
 S. SENTHIKUMAR, B.E. (A),
 REGISTERED ARCHITECT CA/94/17/19
 COUNCIL OF ARCHITECTURE
 6, M.D.A. RAJAGALY 19/03/021
 REGISTERED ARCHITECT GRADE-I (RA)
 GREATER CHENNAI CORPORATION-RA100442818