

APPROVED  
 SUBJECT TO THE CONDITIONS IN THIS OFFICE LETTER  
 No. 2322/2023  
 Dated 30-01-2024  
 FOR MEMBER SECRETARY  
 CHENNAI METROPOLITAN  
 DEVELOPMENT AUTHORITY  
 CHENNAI-600 008.

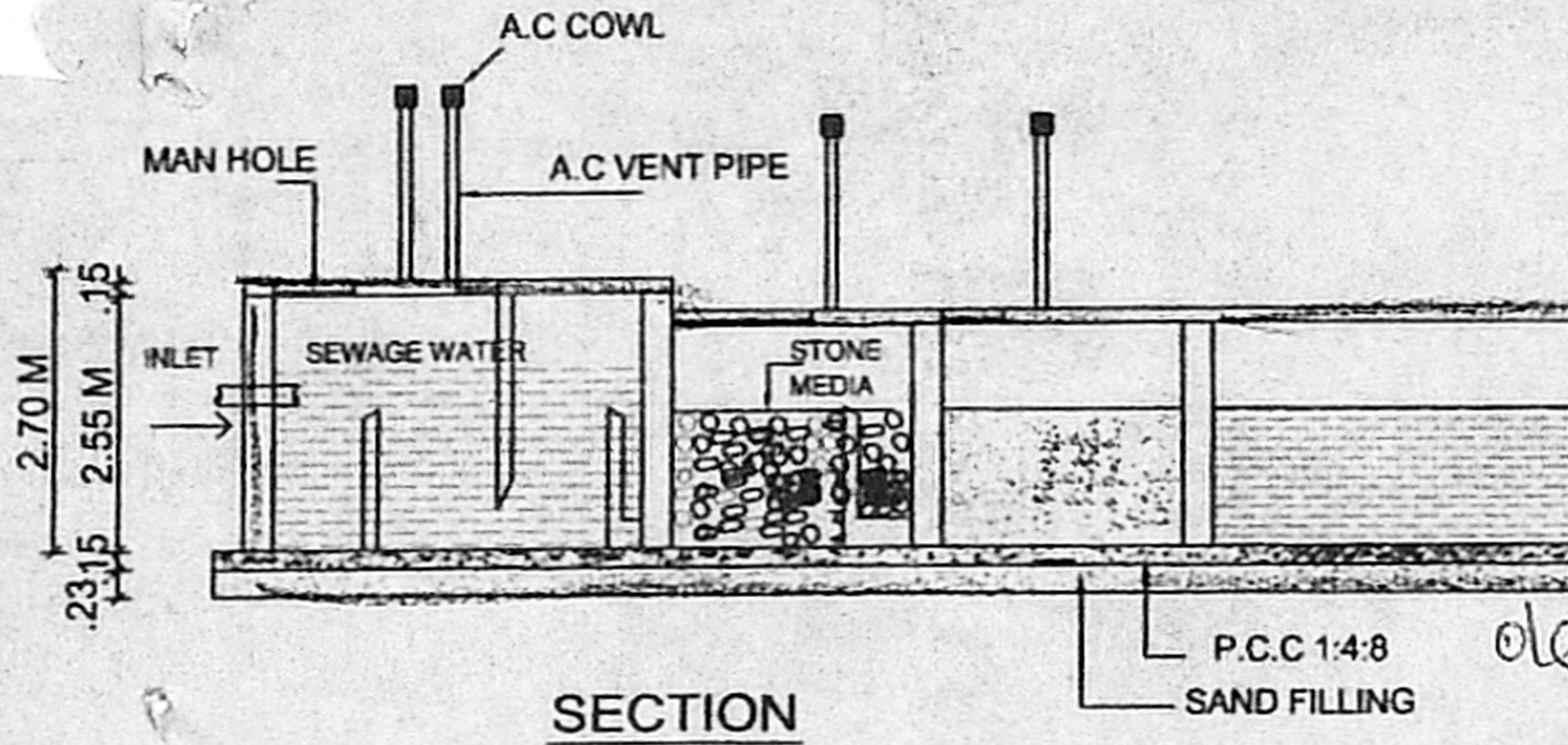
R.P. 26-02

D23 2322/2023  
 Building Plan  
 28/11/24

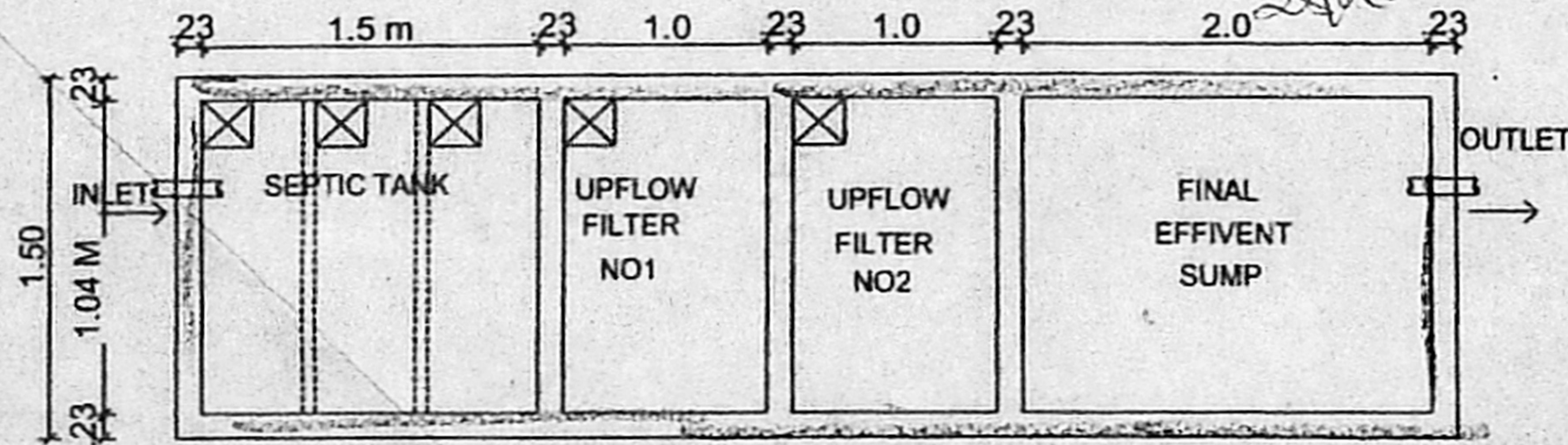
AREA STATEMENT			
TOTAL PLOT AREA	7040.00 SQ.FT	654.27 SQ.M	
GROUND FLOOR AREA	2193 sq.ft	203.7 sq.m	
FIRST FLOOR AREA	2665 sq.ft	249.4 sq.m	
SECOND FLOOR AREA	2684 sq.ft	249.3 sq.m	
THIRD FLOOR AREA	2684 sq.ft	249.3 sq.m	
TOTAL FLOOR AREA	10246 sq.ft	951.8 sq.m	
COVERAGE 39.07 %			
F.S.I 1.49			
CAR PARKING PROVIDED 4 NOS			
NON F.S.I AREA (WATCHMAN ROOM/ELECTRICAL ROOM/GENERATOR ROOM) 298.43 sq.ft 27.83 sq.m			
COLOUR INDEX			
PROPOSED	[Color Box]		
BOUNDARY	[Color Box]		
ROAD	[Color Box]		
PROJECT TITLE			
PROPOSED RESIDENTIAL BUILDING IN PLOT NO-B-38,S.NO:589/1 THIRUVENKATAPURAM COLONY AMBATTUR THIRUVALLUR DISTRICT.			
OWNER			
K. SELVAM, B.E., AME, C.Eng (I) A.I.V., Consulting Civil Engineer Chartered Engineer, Appointed Valuer & Licensed Surveyor, Class 1 Reg. No. 65220/2014, Door No. 11-17, Thiruvallur Salai, Mogappair, East, Chennai-600 053. Ph. 26557030, Cell. 98412 82650, (GMAIL: KSELVAM11@GMAIL.COM)			
LICENSED SURVEYOR			

# DESIGN OF SEPTIC TANK WITH TWO UPFLOW FILTERS:

Colour index SHEET NO = 2/2



**SECTION**



**PLAN**

## DETAIL OF SEPTIC TANK WITH 2UP FLOW FILTERS

NO. OF DWELLINGS	=14
NO. OF USERS	=14x5 = 70 PERSONS
RATE OF WATER SUPPLY	=150 LPH/DAY
THEN FLOW OF SEWAGE PER DAY	=70x150 = 10500 LTS
DENTENSION PERIOD IS	18 HRS
TANK CAPACITY	10500x18/24 = 7875 LTS
THE TANK IS TO BE CLEANED EVERY YEAR	
SO SLUDGE STORAGE CAPACITY AT THE RATE OF 30 LTS/PERSON PER YEAR	=24x15 = 360 LTS
WITH PROVISION FOR FUTURE EXPANSION LET THE TOTAL TANK CAPACITY	=7875+360 = 8235LTS
BE 8235 LTS (or) 8.5 M <sup>3</sup>	
SEPTIC TANK HAVING A CAPACITY OF	-8.5 M <sup>3</sup>
DEPTH OF LIQUID AS	-2.0M
PLAN AREA OF THE TANK 10.5/2	-4.25M <sup>2</sup>
THE RATIO OF LENGTH TO WIDTH OF TANK TO BE	-3
LENGTH x BREADTH x 3	-4.25M
BREADTH OF TANK	-1.0M
LENGTH OF TANK	-1.5M
FREE BOARD OF THE TANK	-0.2M
TOTAL DEPTH OF THE TANK (2.5+0.2)	-2.7M
DISCHARGE FOR 100 PERSONS	-15000 LTS
VOLUME 100x 0.45	-4.5M <sup>3</sup>
DEPTH 1.10 - 0.30	-0.80M
PLAN AREA REQUIRED 10.5/0.8	-3.6M <sup>2</sup>
SIZE OF FINAL EFFIVENT SUMP	-1.50x1.0x2.0
UPFLOW FILTER NO 1	-1.40x1.0x2.0
UPFLOW FILTER NO 2	-1.40x1.0x2.0

Planning Permit No. *23024/05*  
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 SUBJECT TO THE CONDITIONS IN THIS OFFICE LETTER.  
 THE TANK IS TO BE CLEANED EVERY YEAR  
 SO SLUDGE STORAGE CAPACITY AT THE RATE OF 30 LTS/PERSON PER YEAR  
 WITH PROVISION FOR FUTURE EXPANSION  
 LET THE TOTAL TANK CAPACITY BE 8235 LTS (or) 8.5 M<sup>3</sup>  
 CHENNAI DEVELOPMENT AUTHORITY  
 CHENNAI-600 008

PROPOSED

BOUNDARY

ROAD

**PROJECT TITLE**

PROPOSED RESIDENTIAL BUILDING IN PLOT NO:B-38, S.NO:589/1 THIRUVENGADAM NAGAR COLONY,AMBATTUR THIRUVALLUR DISTRICT.

SCALE = 1" = 4'0" DATE = 24.07.2003

FILE NAME : sys 1/d/drg/yes yes/final/thiru...

*[Signature]*  
 OWNER

*[Signature]*  
 SELVAM, B.E., AMIE, C.Eng (II) A.I.C.E.  
 Consulting Civil Engineer, Chartered Engineer  
 Approved Valuer & Licensed Surveyor,  
 Class 1 Reg No. 600/2003 2004  
 Door No. 11/17, Thiruvalluvar Salai,  
 Mogappair East, Chennai-600 050,  
 Ph. 26562050, Cell. 98412 82050  
 LICENSED SURVEYOR (NOT APPLICABLE)