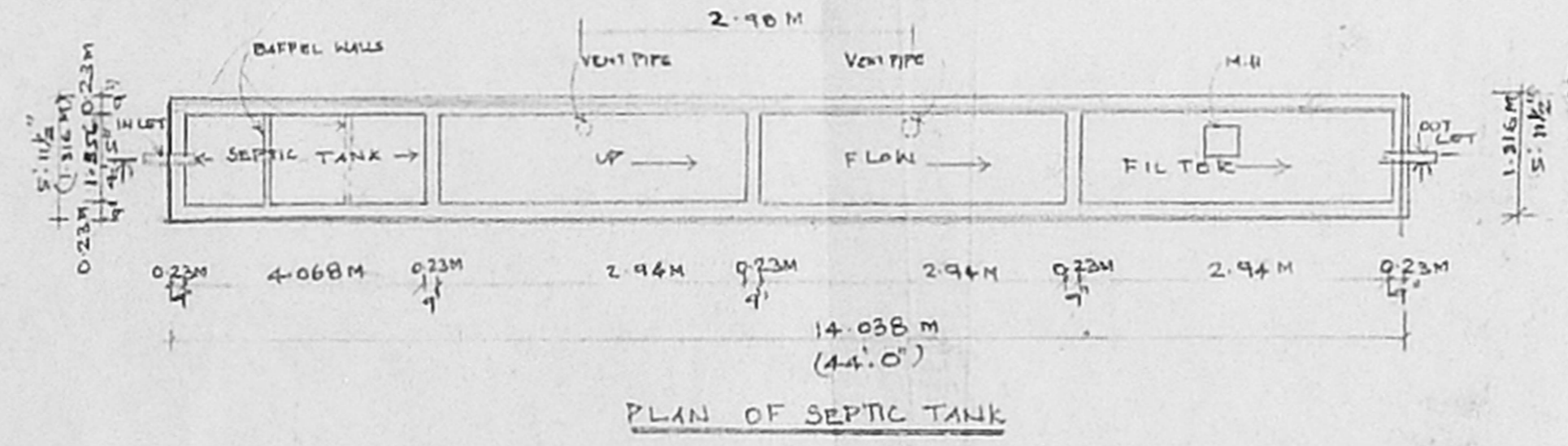
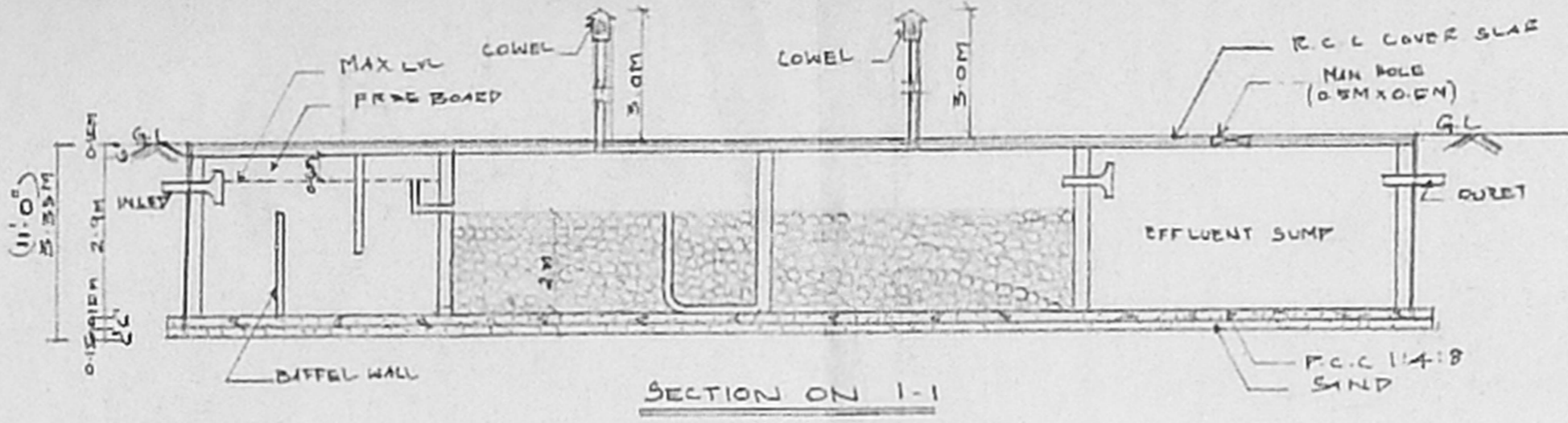




51.00  
231.50

OFFICE COPY



Planning Permit No. B/Spl. 104/214 B/B/200  
**APPROVED**  
 SUBJECT TO THE CONDITIONS IN THIS OFFICE LETTER.  
 No. B/1/33648/200 Date: 06.04.2002  
 FOR MEMBER SECRETARY  
 CHENNAI METROPOLITAN  
 DEVELOPMENT AUTHORITY  
 CHENNAI-600 008.

CMDA (B) / No. 1  
 C. No. B/1/33648/2001  
 Asst. \_\_\_\_\_  
 Scrutiny \_\_\_\_\_  
 P. A. \_\_\_\_\_  
 AP. 18/11  
 UP. 08/31/11/2002  
 DP. \_\_\_\_\_

DESCRIPTION	LENGTH	BREADTH	DEPTH
SEPTIC TANK	4.068	1.356M	2.94M
UP FLOW FILTER I	2.94 M	1.356M	2.5M
UP FLOW FILTER II	2.94 M	1.356M	2.5M
UP FLOW FILTER III	2.94 M	1.356M	2.5M

PROPOSED SEPTIC TANK DETAILS FOR THE PROPOSED RESIDENTIAL BUILDING AT PLOT NO: I, II, III, IV, V, VI, VII, VIII, NO: 634/1, 635/1, 633/1, 1B IN NO: 155, SHOLINGANALLUR VILLAGE MIDAPET TALUK.

DESIGN OF SEPTIC TANK TO UP FLOW FILTER:  
 NO. OF DWELINGS = 24 nos  
 NO. OF USERS = 21 x 5 = 120 nos  
 RATE OF WATER SUPPLY = 135 LPH/DAY  
 THEN FLOW OF SEWAGE PER DAY = 120 x 135 = 16200  
 DETENTION PERIOD = 18 HRS  
 TANK CAPACITY = 16200 x 18 = 12150 LTS  
 THE TANK IS TO BE CLEANED EVERY YEAR SO SLUDGE STORAGE CAPACITY AT THE RATIO OF 13.5 LIT FOR PERSON PER YEAR  
 = 120 x 13.5 = 1620 LIT  
 TOTAL CAPACITY = 12150 + 1620 = 13770 LIT ≈ 13800  
 WITH PROVISION FOR FUTURE EXPANSION LET THE TANK CAPACITY BE = 13800 LIT = 13.8 M<sup>3</sup>  
 DEPTH OF THE TANK [LIQUID] TAKEN AS → 2.5M  
 PLAN AREA OF THE TANK = 13.8 / 2.5 = 5.52 M<sup>2</sup>  
 THE RATIO OF THE LENGTH TO THE BREADTH OF THE TANK BE = 3  
 L x B = 5.52 → b x 3 x b = 5.52 → b<sup>2</sup> = 5.52 / 3  
 → b = √1.84 = 1.356  
 LENGTH = b x 3 = 1.356 x 3 = 4.068

FREE BOARD OF THE TANK = 0.4M  
 TOTAL DEPTH OF TANK OR STAFF = 2.94M  
 PROVIDE SEPTIC TANK SIZE:  
 L x B x H  
 [4.068 x 1.356 x 2.94]  
 UP FLOW FILTERS:-  
 DISCHARGE FOR 120 PERSONS  
 120 x 75 = 9000 LIT  
 VOLUME = 120 x 0.25 = 30 M<sup>3</sup>  
 DEPTH = 2.5 (-) 0.5 = 2.00  
 PLAN AREA REQUIRED = 30 / 2.00 = 15 M<sup>2</sup>  
 BREADTH = 1.356M  
 LENGTH = 4 M<sup>2</sup> / 1.356M = 2.94M  
 SIZE OF THE FINAL EFFLUENT TANK = 2.94 x 1.356 x 2.5  
 UP FLOW FILTER I = 2.94 x 1.356 x 2.5  
 UP FLOW FILTER II = 2.94 x 1.356 x 2.5

SHEET NO: 2  
 SCALE: 1CM = 1M  
 DATE: 15.5.2000  
 COLOUR INDEX  
 PROPOSED COLOUR \_\_\_\_\_  
 K. Subramanyam  
 K. Subramanyam  
 OWNER

ARCHITECTS,  
 SRINIVASA ENTERPRISES  
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 ARCHITECT  
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 Council of Architects  
 R. A. No: 296  
 74, Bazullah Road  
 T. Nagar, Madras - 600 017  
 LICENSED SURVEYOR

P.P.D/LO NO: 220/89 [BLOCK A]  
 FOR. K. RAMAMURTHY