

Annexure 3

A) Performance of the Wastewater Treatment Systems in Auroville – Primary Treatment Unit (P.T.U.)

Type of Treatment Unit	No of Users	Size of the treatment unit	Area (m ²)	Capacity (m ³)	Average area required per person (P.T.U)	Amount of water going in the P.T.U in litres
Septic Tank	5	2mX0.90X1m	1.8	1.44	0.2m ² to 0.3m ²	600
Advanced Septic Tank	20	9mX1.5mX2m	13.5	24.3	0.6m ²	1200
Imhoff Tank	25	3.5m dia & 2.5m deep	9.62	24.025	0.38m ²	6000
Baffled Reactor	100	9mX2.5mX2.5m	22.5	51.75	0.225m ²	3000
UASB (Upflow Anaerobic Sludge Blanket)	300	10mX3mX4m	30	110	0.1m ²	36000

B) Performance of the Wastewater Treatment Systems in Auroville – Secondary Treatment Unit (S.T.U.)

Type of Treatment Unit	No of Users	Size of S.T.U	Average area required per person (S.T.U)	Amount of treated wastewater	Performance of the Treatment Unit	Cost of the treatment unit/m ²	Remarks
Septic tank	5	-		480	50%	Rs 3000/m ²	
Advanced Septic Tank	20	-		960	85%		
Imhoff Tank	25	10mX7m	2.8m ²	4800	80%	Rs5400/m ²	
Baffled Reactor	100	10mX8m	0.8m ²	2400	75%	Rs3500/m ²	
UASB (Upflow Anaerobic Sludge Blanket)	300	10mX6m	1.7m ²	28800	Under study	Rs 4500/m ²	S.T.U is designed for only 30 persons

Note:

Cost of the treatment unit includes both the primary and secondary treatment unit/m²