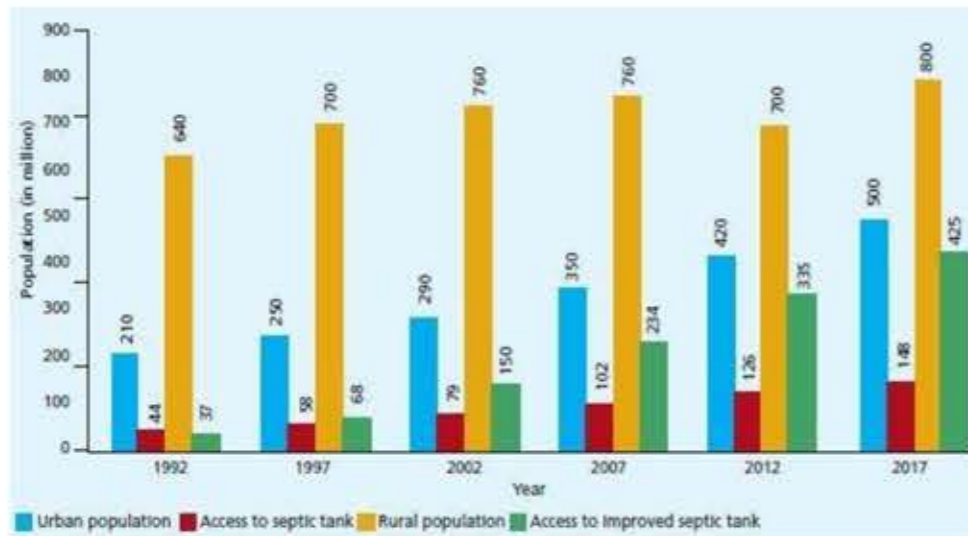
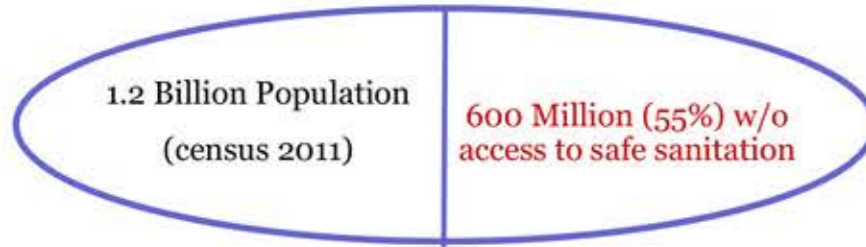


## Current Scenario



\* Policy Paper on Septage Management in India, CSE, 2011

## Ongoing Projects/ Implementations:

- Karram Residency—Shahpur
- Matheran Hill station for hotels and public toilets
- Harmu River revival projects
- Godavari river revival, Panchanga river basin
- Mumbai slum sanitation in CRZ area
- Poonam Developers
- Mayuresh Builders
- Lonavala Municipal Council

## EEPL-SINE IIT Bombay Company

[www.emergyenviro.com](http://www.emergyenviro.com)

CM-02, SINE,  
CSRE Building, 3rd Floor,  
IIT Bombay, Powai  
Mumbai-400076



## NG-SEPCLEAN

Next Generation Septic Tank—IIT Bombay



Breakthrough after 30 years of formulation of **BIS Code, 1985**

Ph: 022-25720415

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[lkj\\_sineiitb@emergyenviro.com](mailto:lkj_sineiitb@emergyenviro.com)

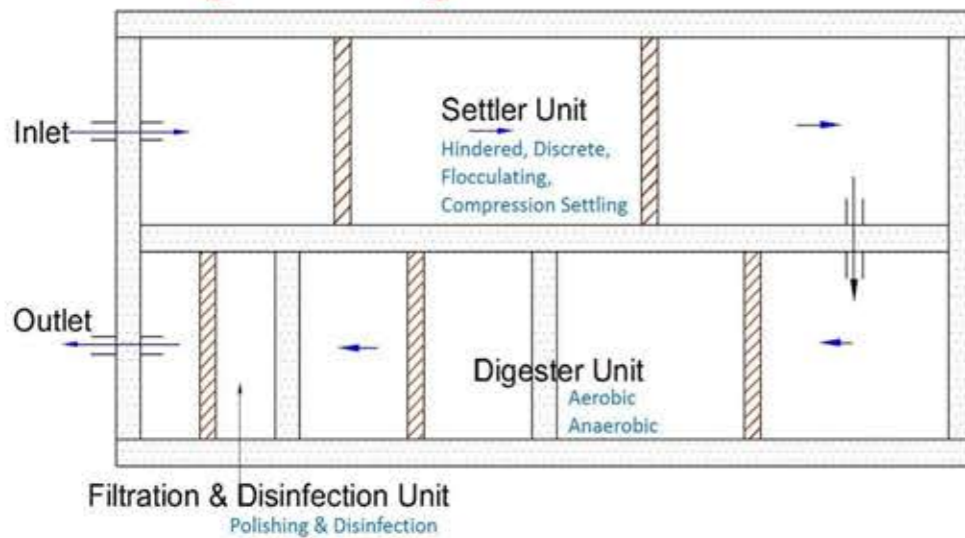


# NG-SEPCLEAN

Next generation Septic Tank has been developed to combat the current scenario by:

**Providing safe sanitation through treatment of wastewater**

## Principle Components

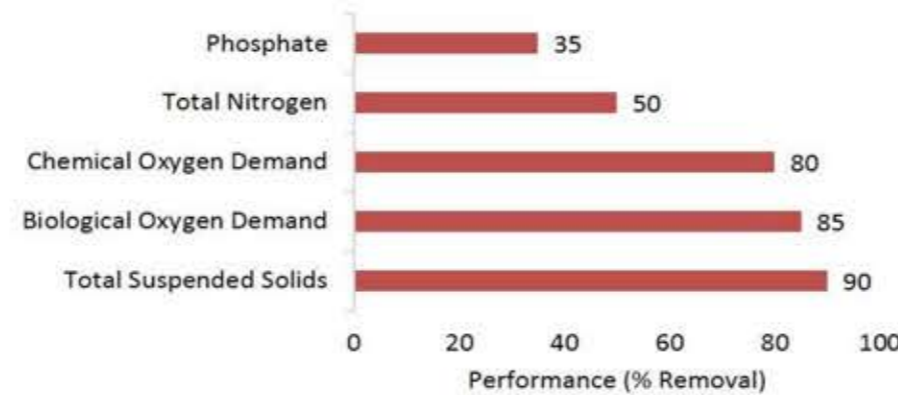


Parameters	Conventional Septic Tank	NG-SEPCLEAN
Cost	Low	Low
Energy for sludge removal	High	Low energy required due to less sludge removal
Disinfection capacity	Not present	Present
Cleaning Frequency	Annually	Biannually
Reuse Potential	No	Yes
Land requirement	Comparatively high	Less land (half of the conventional system)
Efficiency of TSS	40 - 60%	75 - 90%

## Performance

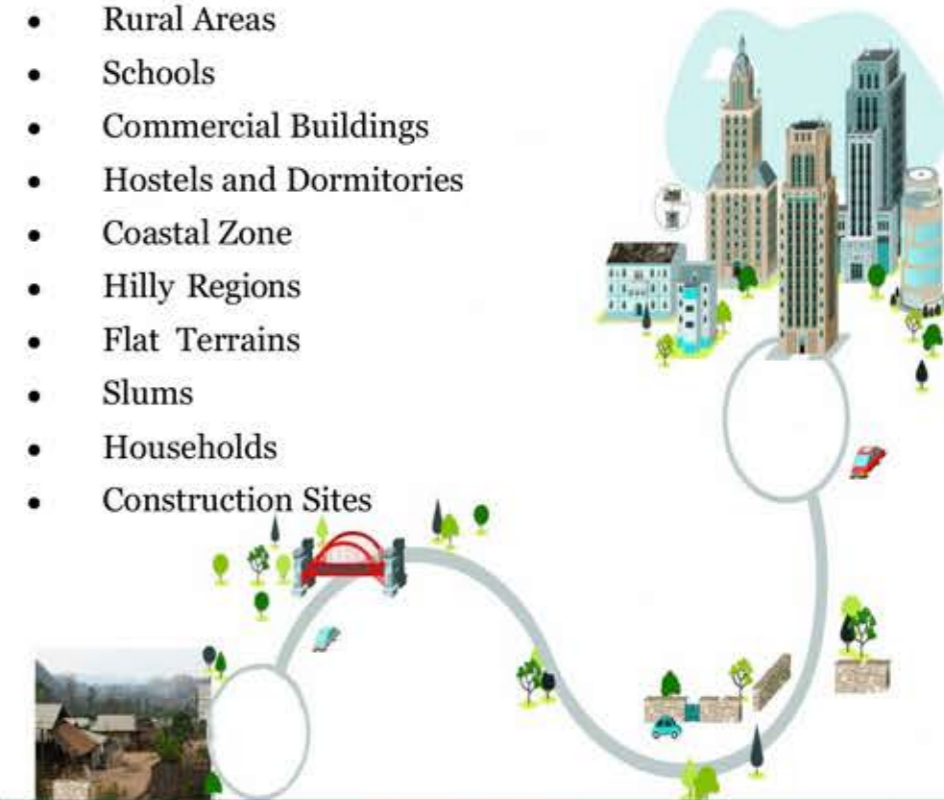
Parameters	Performance (% Removal)
Total Suspended Solids	75-90
Biological Oxygen Demand	70-80
Chemical Oxygen Demand	75-85
Total Nitrogen	40-50
Phosphate	30-35
Fecal Coliforms	80-90

NG-SEPCLEAN Efficiency



## Application Areas

- Rural Areas
- Schools
- Commercial Buildings
- Hostels and Dormitories
- Coastal Zone
- Hilly Regions
- Flat Terrains
- Slums
- Households
- Construction Sites



Design Specifications					
Households					
Family	Number of persons	Flow (L/day)	Area required (m <sup>2</sup> )	Time of Implementation for RCC and Brick Work (Days)	Time of Implementation for FRP (Days)
Single	3	315	0.14	45	7
	5	525	0.24	45	7
Joint	7	735	0.33	60	7
	10	1050	0.48	60	7
Public Toilets					
Number of Toilet	Expected User(per day)	Flow (L/day)	Area required (m <sup>2</sup> )	Time of Implementation for RCC and Brick Work (Days)	Time of Implementation for FRP (Weeks)
1	20	2100	0.95	45	2
2	40	4200	1.90	45	2
3	60	6300	2.86	45	2
5	100	10500	4.77	45	2
7	140	14700	6.68	45	2
10	200	21000	9.54	60	3
12	240	25200	11.45	60	3
15	300	31500	14.32	60	4

Durability of FRP for 30-40 years  
 Frequency of Cleaning: Annually  
 Frequency of Checking: Once in three months