

PART VIII
Appendix S
Design Guideline of a Septic Tank

The volume of a septic tank may be computed using the following equation:

$$V = PQ + PSY \quad (8.S.1)$$

Where,

V = Volume of the septic tank (litre)

P = Number of persons served

Q = Flow, litre/capita/day (*lpcd*)

The flow may be computed considering waste water flow 60% to 70% of the water consumption or on the basis of the plumbing fixtures discharging simultaneously into the septic tank, Sec 6.9.12.7. In absence of these data the waste water flow for the Occupancy groups A, C and D may be considered 120 *lpcd* for cities, 50 *lpcd* for district town and 20 *lpcd* for thanas and rural areas. For other Occupancy groups a waste water flow of 10 *lpcd* may be considered.

t = Liquid retention time, day (minimum 1 day Sec 6.9.12.11)

S = Volume required for sludge and scum (0.04 m³/capita/year, Sec 6.9.12.10)

v = Desludging frequency, year (Minimum 1 year, Sec 6.9.12.12).

If computed volume is less than 2000 litres then minimum volume of the septic tank shall be 2000 litre (Sec 6.9.12.8).

Table 8.S.1: Reduction factors for various occupancies.

Type of Development		Factor
(i) Church:	Hall-Seating capacity	0.01
	Residential Staff	1.00
(ii) School:	Primary & Secondary School-student and staff population per session	0.25
(iii) School:	Institution of Higher Learning-Total enrolment and staff	0.25
(iv) Community Centre:	Staff/worker	0.25
	Resident	1.00
	Kindergarten-student and staff population per session	0.08
	Maximum gathering	0.01

Type of Development		Factor
(v) Factory:	One shift per 24 hours	0.50
	Two/three shifts per 24 hours	1.00
(vi) Market:	Hawker /employee	0.25
(vii) Hawker/Cooked Food center:	No. of stall	1.75
(viii) Cinema:	Hall-seating capacity	0.03
	Staff	0.50
(ix) Bar & Snack Bar, Coffee- House, Restaurant:	Seating capacity	0.20
(x) Hotel:	No. of beds	0.70
	Staff/worker	0.50
(xi) Office:	No. of staff	0.50

PART VIII
Appendix T

Completion Certificate (Drainage and Sanitation Works)

Ref. No. of the Authority's permit: _____ Date: _____

This is to certify that I/We have completed the drainage and sanitation system for the building and the premises at: _____

Detailed description of the work: _____

This may be inspected, tested and approved.

Signature of the Plumber

Name and Address: _____

The Authority's Certificate

This is to certify that the above drainage and sanitation system has been completed in accordance with the provisions of the Bangladesh National Building Code. The drainage connection to the main sewer (if any) may now be made _____.

Signature of the Building Official or his

Authorized deputy

Seal