

PART VIII Appendix R One-Hour Rainfall

One hour rainfall values for a 25-year return period for various locations in Bangladesh may be taken from Figure 8.R.1. The figure shows different regions of equal rainfall intensity as well as isohyets at 5 mm intervals.

Rainfall for a particular location shall be obtained as follows:

- When the location lies within any region (shown shaded in the map), the value marked for that region shall be taken.
- For a location lying on any isohyet in this map, the value of that isohyet shall be taken.
- For a location lying outside the positions (a) and (b) above, linear interpolation shall be made between the adjacent isohyets to obtain the required rainfall value.

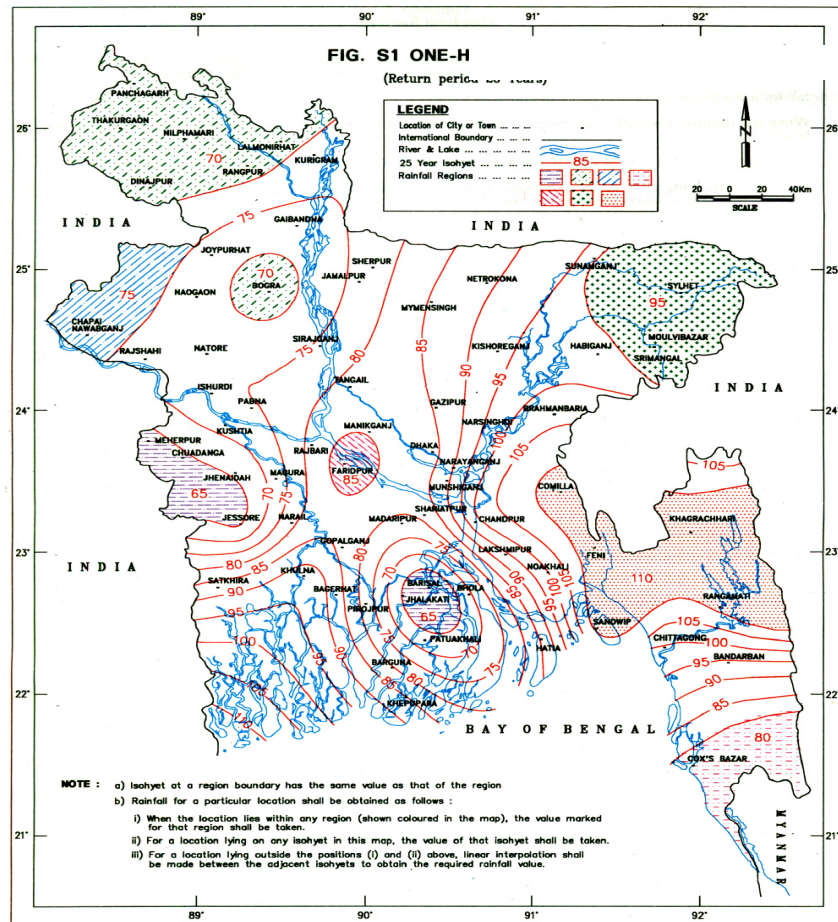


Figure 8.R.1 One-hour rainfall (in mm) map for Bangladesh

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