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Analysis of rainfall characteristics, viz. amount, intensity, duration and frequency of its occurrence, is required for design of erosion control and runoff storage and disposal structures. In the hilly district of Nilgiris in Tamil Nadu, the variation in rainfall over space is very wide. The orographic effects on rainfall distribution are also high. Hence for a reliable estimate of rainfall, observations either on a dense network of

raingauges or availability of generalised maps on the basis of analysis of rainfall data are necessary. The authors have prepared Rainfall Frequency Atlas from 17 self-recording raingauge stations in an effort to make it useful for the practicing engineers for estimating rainfall parameters for different durations and return periods at any place in the Nilgiris District.