

# **Probability Analysis of Rainfall at Raichur**

**C M Pradeep, Yasmin B S, Polisgowdar and M Nemichandrappa**

Department of Soil and Water Engineering, College of Agricultural Engineering,  
University of Agricultural Sciences, Raichur-584102

## **ABSTRACT**

A detailed statistical analysis of one day maximum, weekly maximum, monthly maximum, seasonal and annual rainfall for Raichur was carried out using 34 years (1977-2010) daily rainfall data collected from Agro meteorological observatory of UAS, Raichur. The 34 years average rainfall of the area is found to be 690.36 mm. For forecasting the one day maximum rainfall Pearson type III distribution and maximum weekly rainfall Normal distribution functions were best fitted. Log-Pearson type III probability distribution was best fitted for maximum monthly and seasonal rainfall and also normally fitted to annual rainfall.

**Key words** : one day, weekly, monthly, seasonal, annual rainfall and D-Index