

Abstract

Electrical and electronic systems and equipment need the mains supply voltage to be at normal level and to remain stable to ensure proper operation and long service time for such equipment. However, the stability of the mains supply and level has been observed to be a problem in Tanzania for sometime now particularly in residential areas. This paper present the results of a study made over a period of six mouths in various parts of Dar es Salaam. The result confirms that power quality in a number of places is unacceptable particularly between 6-9p.m when the voltage drop is as low as 40% and as high 17.4% above the normal value. The paper further proposes the method to address the problems at the consumer end.