Performance Evaluation Of Harmonics On Power Quality: Case Study

This work is proposed the results of current and voltage measurements in the real low voltage distribution system and explains the effects of Harmonics in the Power System with high accuracy with many factors, the relationship between the load and no load and its effects on electrical equipment are practically analyzed , caused by connecting the resistive load and no loading with conclusion two form frequencies, the system behavior is analyzed using the power quality analyzer device (Fluke-435B). This paper will imitate to these sets and include graphs which should explain the variances between individual power quality disturbances. the analysis of the results with respect to k factor and THD and how these can be analyzed to check more successfully w.r.t IEEE 519 are showed. The elements of the distribution system consist of:1 kVA transformer, load resister, and Adjustable Speed Drivers(ASJ) are modeled.