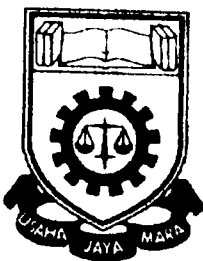


LOW HARMONIC DISTORTION OF ELECTRONIC BALLASTS

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ABSTRACT

Recent energy audit for lighting suggested the use of Electronic Ballasts instead of the conventional Magnetic Ballasts. It is more superior in term of power saving as well as more lumen per watt of input power used. However Electronic Ballasts generate harmonic as high as 133% of current total harmonic distortion (THD). This paper suggests method of reducing the THD. Other property of low loss and better lumen per wattage are also confirmed. The result is so promising with THD reduced to 33%. Suggestion is forwarded how to improve I_{THD} of the Electronic Ballasts using harmonic filter.

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