**ABSTRACT**

Green Computing starts from design to manufacturing, use to disposing –off computer resources in an efficient and effective manner. In recent, year attention in the research area of Green Computing' has moved energy saving methods from home computers to enterprise systems. The IT Community has a significant impact on the World wide carbon foot print saving energy or reduction of carbon footprints is the main aspect of Green computing. The research in Green Computing is more than just saving energy and reducing carbon foot prints. In current trends of green computing the impact is on the reduced energy utilization and increased performance of computing. The major issue that is to be considered in today's IT scenario is the shifting of infra structure. This shift is a great challenge for IT industry. Therefore researchers are focusing on cooling system, power and data center space. Green computing challenge is not only for equipment users but also for IT equipment vendors. This study provides a brief account on current trends in Green Computing; E challenges in the field of Green Computing and the future trends of Green Computing.