

ABSTRACT

Solid waste management (SWM) is a crucial fragment of the metropolitan life styles to ensure a safe and healthy human environment while considering the advancement of sustainable economic growth. Economic growth which is achieving by industrialization in developing countries like Sri Lanka has created serious problems of waste disposal due to lack of interest by respective authorities and general public. The problem is further provoked by the lack of financial as well human resources trained in SWM practices in the sphere of collection, transportation, processing and final disposal. Since local authorities being responsible for solid waste management and they are being failed in proper garbage disposal and solid waste management it is very imperative to notice the actual cause behind this argument. The main objective of this research is enhancing the garbage collection and disposal mechanism of Kesbewa urban council area and specific objectives are to examine the performance of the existing solid waste collection and disposal System, to identify socio-economic problems due to present practices of SWM, to establish whether the community is willing to participate and contribute towards solid waste management and to use the research findings for designing an improved and sustaining solid waste management project proposal. Random sampling technique was used to collect data from the sample of 300 persons selected from 191,334 populations living, studying, and working around the Kesbewa area. This sample was represented households, shops, Factory and institutions, in the selected area. Both descriptive and statistical analysis was anticipated. Therefore the responses in the questionnaire were assigned numerical values. Coding, entering data and analysis was done using Microsoft Excel. Excel package was mainly used for data analysis. After the interpretation of the data, results have been used to come into the conclusions and to finally generate most valuable recommendations. Municipal Solid Wastes are becoming a multidimensional threat to the Sri Lankan environment. Especially the solutions are needed to reduce the amount of the environmental problem caused by haphazard solid wastes disposal done by the Kesbewa Urban Council and the public. Even though the Kesbewa Urban Council Solid Waste Management (SWM) strategy is aimed to reduce the amount of final disposal by introducing reuse trends, proper collection methods, source segregation and improved recovery of recyclables still needed to be established.

Keywords: Municipal Solid Waste, Solid Waste Management, Intergraded solid waste management, Material recovery facility.