

**Economic Analysis of Solid Waste Management with Special
Reference to Coimbatore City**

By

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Certificate

DECLARATION

I hereby declare that the thesis entitled "**Economic Analysis of Solid Waste Management with Special Reference to Coimbatore City**" submitted to the Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, in partial fulfillment of the requirements for the award of the degree of Doctor of Philosophy in Economics is a record of original research work by me under the supervision and guidance of **Dr. Sherly Thomas**, Professor, Department of Economics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore and is not submitted for the award of any Degree/ Diploma/ Associateship/ Fellowship of any other University.



Signature of the Supervisor



Signature of the Candidate

Declaration

CERTIFICATE

This is to certify that the thesis entitled “**Economic Analysis of Solid Waste Management with Special Reference to Coimbatore City**” submitted to the Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, for the award of the degree of **DOCTOR OF PHILOSOPHY IN ECONOMICS**, is a record of original work done by **S.Mahima** during the period of her study in the Department of Economics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, under my supervision and guidance and the thesis has not formed the basis for the award of any Degree/Diploma/Associate ship/Fellowship or similar title of any candidate of any university .

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Abstract

Solid Waste Management (SWM) is a science associated with the management of generation, collection, transportation, disposal and processing of solid waste using the best principle and practices of many disciplines. Solid waste has become one of the major problems in India in recent years.

A general scanning of the literature available indicates that studies were carried on issues like solid waste generation, collection, transfer and recycle separately. A study on all these aspects together has not been done. It is against this background the current study is taken to focus on all aspects of SWM. The major objectives were to examine the SWM practice by the selected households, to analyze the economic and health status of sanitary workers and those in recycling unit. The study was based on primary data collected from households, sanitary workers and recycling unit workers with the help of two different questionnaires.

The major findings were - majority of the households generated 2kg to 3kg waste per day, and door to door collection was carried out. Around 94.3 percent of respondents were willing to pay towards SWM. For transportation of waste, tractors were used (52 percent) followed by trucks (45.2 per cent). On an average the income of sanitary workers were between Rs 10,000 -15,000/ month. Most of them had respiratory diseases, eye disorders, allergic problem and other health issues. But they are covered by insurance facility.

The recycling unit had both permanent and contract workers. Nearly 64 percent earned Rs 300-500 daily, which illustrates their poor economic conditions. Continuous working with wastes for long hours results in several health problems. All the workers have medical insurance schemes for treatment and compulsory medical checkup is been done every month in the district medical hospital. To find a solution to the problem of waste accumulating at the Vellalore dump yard, the Coimbatore Corporation has planned to establish a waste-to-energy plant.