

**CURRENT RESEARCH
AND DEVELOPMENT IN
BIOTECHNOLOGY
ENGINEERING
AT IIUM**

VOLUME I

Editors:

Suleyman Aremu Muyibi
Mohammed Saedi Jami
Zaki Zainudin



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(VOLUME I)

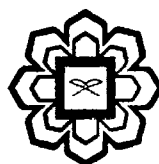
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CHAPTER 4

THE SOLID WASTE MANAGEMENT SYSTEM ISSUES ON POLLUTION AND WASTE DISPOSAL PROBLEMS

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ABSTRACT

The solid waste management system in Kuala Lumpur, Malaysia. Issues on pollution and waste disposal problems have posed a great challenge to manager and planner of Kuala Lumpur since the number of population and the growth of industry sector in Malaysia have been increased. With the help of using an expert system somehow will help to solve these kinds of problems. The user interface on solid waste management is designed and the conceptual structure of the relational database model on “solid waste management system” is graphically summarized. The overall development of the research has been carried out in several phases, including problem definition, knowledge acquisition, knowledge base, prototype development, prototype validation and implementation. Solid waste management contains sub forms which the user can obtain a comprehensive background of the current solid waste management in Kuala Lumpur. User can ask for clarification, view the problems faced in solid waste management, forecast the future trend of solid waste generation and learn how to solve the problems in solid waste management.

Keywords: solid waste, pollution, Malaysia, management

INTRODUCTION

Population growth and industrialization have brought about waste disposal problems that pose a great challenge to the planners and manager of Kuala Lumpur, Malaysia. With the beginning of industrialization, new environmental problems have also occurred, in the form of toxic and hazardous waste, demanding immediate attention and containment measures. Thus, it is not surprising that a primary concern in Kuala Lumpur is the management and disposal of an increasing amount of waste which contribute to environmental degradation in the city. These wastes include municipal solid waste generated by domestic, commercial and industrial sources, municipal sewerage as well as toxic and hazardous wastes.

Over a period of ten years, from 1975 to 1985, there was an almost five folds increase in the amount of waste generated daily by the population of Kuala Lumpur (Sivapalan Kathirvale et. al, 2003). In the absence of systematic data collection, the Dewan Bandaraya