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ERRY YULIAN TRIBLAS ADESTA
AKM Nurul Amin
Mohamad Yeakub Ali

MANUFACTURING MANAGEMENT

From basic machining to quality product



IIUM Press

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Development of Thermoselect Process in Waste Management System in Malaysia

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1. Introduction

Waste is directly linked to human development, both technologically and socially. The compositions of different wastes have varied over time and location, with industrial development and innovation being directly linked to waste materials. The disposal of garbage in the world is a problem that continues to grow along with the development of industrialized nations and the growth of population. It is not that the technologies do not exist; they do, and have done for many years [6, 7]. The main issue is that of public acceptability. The public expect to be able to produce household waste in a largely uncontrolled manner and are accustomed to an efficient local service of removal. Beyond this is where the problems begin. There are many processes that we are using presently to dispose the garbage. The processes include recycling, burning, burying, and composting. However, all of these current processes are limited in processing wastes and there are some remaining wastes that are difficult to be recycled as materials. According to Heather Rogers (2005), 'recycling was presented as a solution to the garbage crisis, but it cannot keep pace with the staggering output of throwaways'. Today, only 5 percent of all plastic is recycled, while almost two-thirds of all glass containers and half of aluminum beverage cans get trashed [4].

The methodology adopted in the research is library based research and data is collected from reliable source from articles, journals and books. This research investigates about the encouragement for developing Thermoselect process in waste management system in Malaysia. The objective of this research is to investigate the advantages and disadvantages of Thermoselect process in order to be proposed in waste management system in Malaysia. Thermoselect process is one of the solutions to overcome the problem of waste management problem in Malaysia. Therefore, it is most appropriate to construct Thermoselect process in waste management system in