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**ABSTRACT**

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**PRELIMINARY DESIGN CONCEPT OF GARBAGE MACHINE**

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**ABSTRACT**

Malaysia can only recycle about 1,150 tons of solid waste than 23,000 tons of solid waste disposed of every day. This amount is equivalent to 5% of the total solid waste disposed of. At the same time, 19% of waste is dumped into water drainages such as rivers, trench, and drains. This activity contributes to clogged drains, mosquito breeding, and the transmission of other diseases. Waste management is an important issue that is commonly discussed and highlighted in the media. The most common issue is how to efficiently and effectively collect garbage waste. The current method of collecting garbage is very time-consuming and requires many workforces. In addition, the existing machine is expensive, and its usage is limited to certain areas only. To save the energy of human resources and time, a new garbage collector design should be proposed. Usage of machines focused on the big flat area such as at a field and open area like parking lot area. This area is commonly used for significant events like a night market, expo, concert, or exhibition. Therefore, this concept design is intended to solve and surmount the stated problem by designing and developing the new design garbage collector machine. The concept design follows an essential design process that identifies needs, conceptual design, embodiment design, and detail design. This design can be developed for the expected result and proceed for proof-of-concept testing to test the functionality and capability.

Keywords: Waste management, Concept design, environmental, mechanism