



UNIVERSITI  
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Cawangan Perak



## **BUILDCON2023**

**COMPILATION OF PROJECT INNOVATION IDEAS  
SEMESTER MARCH – AUGUST 2023**

*EMBRACING SMART CONSTRUCTION TRANSFORMATION*

# **BUILDERS' CONVENTION DAY 2023**

**Department of Built Environment Studies and Technology  
College of Built Environment  
Universiti Teknologi MARA Perak Branch**

**BUILDCON 2023**  
**COMPILATION OF PROJECT INNOVATION IDEAS**  
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**Organised by**  
Department of Built Environment Studies and Technology  
College of Built Environment  
Universiti Teknologi MARA Perak Branch  
Malaysia

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#### **Editors**

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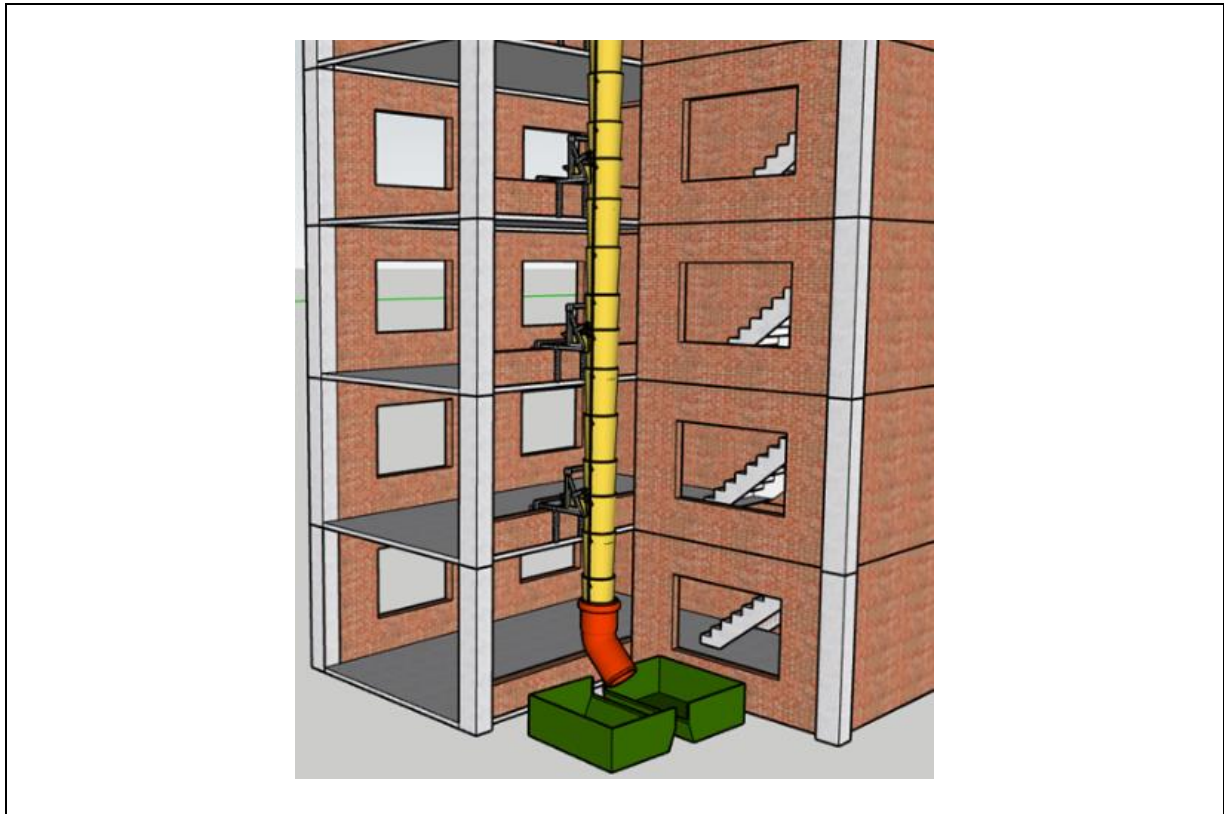
## SMART WASTE SORTER CHUTE

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Smart Waste Sorter Chute

### **Innovation Idea:**

High-rise buildings nowadays symbolise a country's rapid growth. The construction of high-rise building dominates Malaysia's economy, as it is one of the developing nations. The rapidly growing construction sector in Malaysia has produced numerous types of waste products, resulting in a negative impact on the environment and an increased amount of waste in landfills. The considerable volume of garbage produced during the construction of high-rise buildings makes waste management a crucial component in such projects. Due to the absence of a systematic approach to managing construction waste, the escalation of the building construction industry has led to a significant environmental issue concerning waste reduction. The objectives of this innovation project are to identify the suitable method for waste chutes in high-rise building construction, propose sustainable elements for waste chutes in high-rise building construction, and determine the marketability of such sustainable waste chutes in high-rise building construction. This study aims to develop an innovative product to manage waste in the construction industry, contributing to sustainable waste management. The technology requires expertise to provide high-quality performance. Technological advancements have the potential to bring in a sustainable future, helping in environmental protection and conserving resources through reduction of waste generation and improvement of resource efficiency.



Surat kami : 700-KPK (PRP.UP.1/20/1)

Tarikh : 20 Januari 2023

Prof. Madya Dr. Nur Hisham Ibrahim  
Rektor  
Universiti Teknologi MARA  
Cawangan Perak



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Kelulusan daripada pihak tuan dalam perkara ini amat dihargai.

Sekian, terima kasih.

“BERKHIDMAT UNTUK NEGARA”

Saya yang menjalankan amanah,

**SITI BASRIYAH SHAIK BAHARUDIN**  
Timbalan Ketua Pustakawan

*nar*

*Setuju.*

*27.1.2023*

PROF. MADYA DR. NUR HISHAM IBRAHIM  
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