Management of safety and health hazards associated with construction and demolition

waste in Zimbabwe

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Abstract

The management of safety and health hazards associated with construction and demolition

waste in Zimbabwe is a critical issue that requires comprehensive attention. Purpose: This

review paper provides an in-depth analysis of the current state of safety and health hazards

associated with construction and demolition waste management sector in Zimbabwe.

Methods: Literature was searched from various databases for example African Journals Online,

PubMed, Science Direct, Springer, Sage Publications, Google Scholar and Scopus. Key words

such as construction and demolition waste, waste management, safety hazards, health hazards

and risk assessment were used to retrieve data from different databases.

Results: The paper finds that construction and demolition waste management is associated with

physical, chemical, biological and ergonomic hazards. The review posits that there are existing

regulatory frameworks and enforcement mechanisms related to safety and health in

construction and demolition waste management in Zimbabwe for example Environmental

Management Act [Chapter 20:27] and Urban Councils Act [Chapter 29:15]. Risk assessment

and use of personal protective equipment were highlighted as strategies to manage safety and

health hazards associated with construction and demolition waste in Zimbabwe. Proper

handling, storage, transportation and disposal of construction and demolition waste reduce its

impacts to the people and the environment. Challenges affecting Zimbabwe in managing safety

and health hazards associated with construction and demolition waste include economic

constraints, lack of awareness and education as well as limited recycling and waste treatment

facilities.

Conclusion: Overall, this paper aims to provide valuable insights for policymakers, industry

professionals, researchers and other stakeholders to enhance safety and health standards in

construction and demolition waste management practices in Zimbabwe.

**Keywords:** Construction and demolition waste · Waste management · Safety hazards · Health

hazards · Risk assessment