ABSTRACT

Insufficient attention has been given to the limitation in the data input and retrieval process to develop a meaningful format for the analysis of a project’s performance. The manual process of inputting and extracting relevant cost components has impeded timely cost models to be developed. This results in a slow response on critical cost problems occurring during the project.

The ultimate aim of the study is to develop a system which improves on productivity and efficiency in cost data mining and management. Re-engineering of the process is accomplished with the use of Microsoft Excel software.

The scope of work consists of three phases. Phase 1 is the design of the overall spreadsheet; Phase 2 is the description of the manual process of cost data mining and the generation of ratios and graphs; and Phase 3 details the steps involved in the re-engineering of the manual process.

The re-engineered process is validated with the time saved and stages reduced. A framework of the stages involved in the re-engineering is developed to serve as a guide for other construction firms in improving their own processes. It is hoped that with the development of the framework, other firms are able to apply the guidelines proposed to the re-engineering of their current processes to improve efficiency in managing their cost data.