

# **APPLICATIONS OF ERP SYSTEM TO THE CONSTRUCTION INDUSTRY IN SRI LANKA; SPECIFIC ANALYSIS OF QUANTITY SURVEYORS ROLE**

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## **ABSTRACT**

Recently, Enterprise Resource Planning (ERP) is becoming more popular and applications of ERP system demonstrate rapid growing as a developed information technology solution. Although ERP system is somewhat fresher to the Sri Lankan construction industry, global construction industry was already standing with the applications of ERP system. This study intended to identify the requirement of the ERP system to the construction industry, to identify the maturity of the IT and IT maturity of ERP system, to identify the ways of applications of ERP system and to identify the difficulties. Sri Lankan construction industry has achieving its unique advantages through challenges with the ERP applications. There are not sufficient researches which carried out in applications of ERP system in Sri Lankan Construction Industry by specifying quantity surveyor's role. Therefore, this research provides a guidance to apply ERP system to the construction industry within quantity surveyor's aspect by overcoming difficulties in ERP applications. Quantitative and qualitative methods were used to achieve research objectives. General questions were used to evaluate current status of ERP application in Sri Lankan Construction Industry. Further, prioritizing common preferences was used as a basement to conclude the results of questionnaire survey. The findings disclose the requirement of ERP applications and IT maturity of ERP system with applications of ERP system belongs to Sri Lankan construction industry. The relationship between findings and impact to the applications were proved by correlation and regression analysis. Applicability of ERP system and difficulties on ERP applications were determined through comprehensive semistructured interviews analysis as per the selected professional quantity surveyor's aspect by purposive sampling. Lack of knowledge was the most critical factor that affected to the ERP applications which can be solved by including ERP system as a module in related courses. This study can be upgrade to develop new ERP system which fulfills the applications of ERP system in Sri Lankan context within the Quantity Surveyor's aspect.

**Keywords – ERP, Applications of ERP System, Sri Lankan Construction Industry, Quantity Surveyors Role**