

**FACTORS AFFECTING TO THE DELAY IN  
ROAD CONSTRUCTION PROJECTS OF LOCAL  
BANK FUNDING**

**MASTER OF SCIENCE  
IN  
CONSTRUCTION PROJECT MANAGEMENT**

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BANK FUNDING**

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“This dissertation was submitted to the Department of Civil Engineering of the University of Moratuwa in partial fulfilment of the requirements for the Master of Science in Construction Project Management”

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December 2019

## DECLARATION

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## **ABSTRACT**

This study attempts to identify the delay causes factors affect to the delay of road construction projects in Sri Lanka. Road sector infrastructure developments plays major role within the development of country. Therefore, identification of delay causes factors is very crucial for the development of country. In addition to the identification of delay causes factors, ranking them according to the severity level is very important to prioritize the mitigation measures.

Thirty number of sample projects were selected from the road construction projects under the Local Bank Funded Project Division for this study. Delay causes factors were identified through literature survey analysis, contractors' claim documents and interviewing of project engineers of those projects. Identified delay causes factors from the contractors' claim documents were analyzed according to the actual delay contribution of the individual delay factors. Then identified all the delay causes factors were evaluate quantitatively by questionnaire survey analysis with Likert scale.

As per the results of the study, average time over run of the project duration due to various reasons in the Local Bank Funded Projects goes up to the 40% -68% compared to the original project duration. According to the both analysis methods Variation and scope changes, delaying of relocating utilities and Delay due to land acquisition were selected as a top three significant delay causes respectively. Above three delay causes factors represent the client's responsibility category.

In addition to above three delay causes factors Ineffective project planning and scheduling by contractor, Deficiency of some material in the country, Poor site management of contractor, less qualified persons in contractor's key staff, Design changes, Unavailability of required number of staff in contractor's organization and Improper availability of funds with client were selected in the top ten delay causes factors respectively according to the questionnaire survey analysis.

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