Dharma Kumar Neupane 2009: Study and Analysis of the Performance of Mega Scaled Construction Projects in Nepal. Master of Engineering (Civil Engineering), Major Field: Civil Engineering, Department of Civil Engineering. Thesis Advisor: Associate Professor Santi Chinanuwatwong, Ph.D. 252 pages.

Past experience showed that, delays and cost overrun are prevalent and there exists number of hindrances for achieving satisfactory quality performances of mega scaled construction projects (MSCP) in Nepal. This research aimed to study and analyze the performance of ongoing highly prioritized, public MSCP in Nepal and to identify the critical causes of delays and cost overrun; and factor affecting quality. This study employed exploratory research methodology and four mega projects namely; SIP, MMHEP, BSBRP and MWSP were selected as the sample projects.

The study result revealed that time, cost and quality performance of the MSCP in Nepal are not satisfactory. This research showed that, social and political conflicts; frequently occurring nationwide strike, closure, blockade and obstruction; frequent obstruction in project activities by different groups; problems of decision making; shortage of fuels, lubricants and construction materials; are the critical problems causing delays and cost overrun. Furthermore, inflation, exchange rate, material price escalation, unexpected rise in price of fuels and lubricants; construction delay are the critical causes attributed for the cost overrun. Similarly, problems of communication between the project parties; lack of QC, QA and QMS in MSCP; equipment breakdown; problems of good quality construction material; contractors not having good quality policy and performance are the critical factors affecting the quality in MSCP. Based on the study findings, recommendations are made to mitigate the problems of project delays, cost overrun and quality related issues in MSCP in Nepal.

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