

# Causes of Cost Overruns



# Causes Of Cost Overrun In Construction

**Stephen Gruneberg**



## **Causes Of Cost Overrun In Construction:**

### **Root Cause Analysis of Cost Overrun in Construction Projects Under Different Market Sectors** Rami

Sarakbi,2019 Abstract A project is pronounced successful if it is finished on time within the budgeted value Cost overruns and time overrun delays have been a critical problem of many projects that led to poor project execution The construction industry has a poor reputation in terms of finishing the project within budget and on time Although contractors and designers are one of the key players in construction projects various other factors affect the project cost overrun depending on the main cause of change This thesis takes the previous studies one step forward by identifying the root causes of cost overrun using real data extracted from one of the largest general contractors in California and analyzing the data to find the main causes of change orders in the top three market sectors and the key responsible parties for each change The analysis showed that the contract value is irrelevant to the amount of change orders In addition it proved that depending on the market sector the underlying root causes for the cost overrun may vary accordingly Furthermore it provides legitimate data to help quantify the change impacts on project performance *Schwarzfischer Josef (1901-?)* ,1921 Josef Schwarzfischer 1901 Prof Dr

Global Construction Data Stephen Gruneberg,2019-08-12 Global construction data is vital for contractors governments international organisations policy makers academic researchers and statisticians As the global population of the world expands the sustainability of the built environment raises the political agenda and the need to manage infrastructure and buildings in both urban and rural contexts becomes ever more pressing How much more can the built environment grow and how can it be managed sustainably This edited volume addresses how we can find a possible way through the inconsistencies between national construction data sets to devise a consistent approach to national construction data to further the global sustainability agenda and inform policy making This search begins in Part I which looks at the methods and definitions used in construction statistics in different countries Part II considers examples of different types of construction data from the cost of materials measuring work on high rise buildings and existing stock In Part III the authors consider construction data internationally beginning with the problem of comparing data in different countries using exchange rates and purchasing power parities PPPs comparing innovation processes in different countries and looking at the provision of building design internationally In Part IV the international theme is continued by comparing accounting practices and company performance in different countries and concludes with an international comparison of construction industries This book raises awareness of the significance of the construction industry globally and the importance of data to measure it It informs the discussion of the best ways of handling the consequences of policies affecting the built environment and the effect of the built environment on the rest of the economy and society It is essential reading for international economists construction industry consultants policy makers construction statisticians and academics Towards a Sustainable Construction Industry: The Role of Innovation and Digitalisation Clinton Aigbavboa,Wellington Thwala,Douglas Aghimien,2023-04-23 This book gathers papers

from the 12th Construction Industry Development Board CIDB Postgraduate Research Conference which was held at the International Convention Centre East London Eastern Cape South Africa from July 10 to 12 2022 The conference directly addresses the objectives of SDG9 Building resilient infrastructure promoting inclusive and sustainable industrialization and fostering innovation Moreover the conference is designed to promote capacity development and transformation within the built environment space by providing an all inclusive platform to established and emerging researchers to discuss the recent advancements needed to move the industry forward

**Project Cost Overrun** Eshbjörn Segelod,2017-11-23 This book offers a new way of thinking about the causes and consequences of cost overrun to firms and society It is ideal for academic researchers in project management management accounting and corporate finance as well as for managers in the private and public sectors

*Proceedings of the 24th International Symposium on Advancement of Construction Management and Real Estate* Gui Ye,Hongping Yuan,Jian Zuo,2021-06-07 This book covers various current and emerging topics in construction management and real estate Papers selected in this book cover a wide variety of topics such as new type urbanization planning and construction of smart city and eco city urban rural infrastructure development land use and development housing market and housing policy new theory and practice of construction project management big data application smart construction and BIM international construction i e belt and road project green building off site prefabrication rural rejuvenation and eco civilization and other topics related to construction management and real estate These papers provide useful references to both scholars and practitioners This book is the documentation of The 24th International Symposium on Advancement of Construction Management and Real Estate which was held in Chongqing China

*An Analysis of Cost Overrun in the Construction Industry* Abhinav Goyal,2017 This thesis presents a literature research analyzing the cost overrun of the construction industry worldwide exploring documented causes for cost overrun and documented parties responsible for the inefficiency The analysis looks at a comparison between the metrics of construction projects in different continents and regions Multiple publication databases were used to look into over 300 papers It is shown that although construction demands are increasing cost overrun on these projects is not decreasing at the same rate around the world This thesis also presents a possible solution to improve cost overrun in the construction industry through the use of the Best Value Performance Information Procurement System BV PIPS This is a system that has been utilized in various countries around the world and has documented evidence that it may be able to alleviate the overrun occurring in the construction industry

*Causes Effects and Remedies of Cost Overrun in Construction Projects in Oman* \ Muna Nasser Al-Hatmiyah,2016

**A Study Investigating the Factors that Cause Delays and Cost Overruns in Construction Projects in India** Kushal Agrawal,2014-03-13 Anyone who has got a rework or renovation work done in their house can tell you what a troublesome activity it is Not only that it seems to take forever to be completed and is heavy on the wallet Even an international icon like the Sydney Opera house which has always been Australia s pride was delayed by 10 years with its budget shooting up by 14 5

times its estimated budget of 7 million There are plenty of such examples available It is very common for construction projects to get delayed and outrun their budget This is a tough scenario faced by almost all projects around the world with India not being an exception Thus the researcher has undertaken this research to investigate the factors responsible for delays and cost overruns Both secondary research and primary research have been carried out and the barriers have been identified Such barriers create problems that hinder the efficiency and progress of a project making it lag behind its schedule The factors identified in the secondary research are compared to the findings of the primary research to see if they hold true in the Indian context

**Study of Price Adjustment Contract Administration In Nepalese Construction Contracts (Road)** Sabin Koirala, 2020-10-05 Master s Thesis from the year 2019 in the subject Engineering Civil Engineering language English abstract One of the wide ranging problems which construction industry is facing is the fluctuation in prices of construction inputs which is causing most of the projects to be completed at cost much higher than the original contract prices In the recent past we have seen significant price escalation occurring not only with the basic construction materials but also with the labor and fuel which creates uncertainty among the participants involved in a construction project To overcome the effect of price fluctuations certain methods or contract clauses are desired to deal with this uncertainty The main purpose of the price adjustment clauses is to allow the contractors and clients to adjust the increase or decrease in prices In addition to this it also encourages competitive bidding The objective of this research study is to study importance of price adjustment in construction contract and analyzing the response of the different stakeholders in construction contracts regarding FIDIC formula and suggesting for improvement Similarly identifying different cost element weightings and determining contingency is also goal of research so that price adjustment contract administration becomes systematic equitable and with less ambiguity Recently the price fluctuation of construction materials and services in Nepal has become severe and very much unpredictable Most of the contractors in Construction Industry especially local contractors are facing strong challenges during bid process due to the high uncertainty of predicting what would happen during the course of the execution of the project Based on the above explained fact the research problem has been addressed in this research by conducting diagnostic survey among ten contracting firms working on ADB project collecting data with the help of questionnaire distributed to contractors consultant client and conducting desk study on ADB projects World bank projects Midhill highway and RIP projects under department of Road whose construction were started after 2014 and construction progress was more than 80 %

*Elements of Cost Overruns, Delays and Risk Involve in the Construction Industry*, 2020 The construction industry faces a lot of challenges and risks regarding time delays and cost overruns Poor project and cost management have a great impact and is a very serious issue when it comes cost overruns and delays These problems often lead to litigation Cost overruns and delays have a huge impact on a successful delivery of a project Exceeding the initial estimated budget often leads to project failure as has been demonstrated in previous studies relating to cost overruns The

research objective is to investigate the causes elements of cost overruns delays and risks involved in the construction projects both commercial development and residential projects and apply the appropriate remedies by determining i the main causes of construction cost overruns delays and risks involved in the construction industry ii the impact these have in the completion of project on time and iii to formulate measures and remedies to avoid these phenomena The nature of this research is qualitative and data will be collected from the literature of previous studies in this field for comparative purposes and from the semi structured interview questionnaires A qualitative research methodology assisted the study in revealing the elements overruns delays and risks involved in the construction industry Qualitative research methodology required a specific sampling strategy therefore the research had adopted non probability sampling and the samples were 8 research respondents who were employees at construction companies dealing with project management mostly This research will be exploring the main causes that mostly affect the budget and listing those causes to check how they can be avoided in the construction projects This research will assist with the remedies that can be used to minimise the risks of having to exceed the actual estimated budget and not completing the construction projects on time Finding the gaps that cause the cost overruns delays risks involved and giving solutions will be beneficial to the clients contractors and stakeholders that are involved with the construction building projects

**Understanding Contract Termination Dynamics in Public Building Projects** Anteneh Birhanu,2023-06-07 Seminar paper in the subject Engineering Civil Engineering Hawassa University Tecnology course construction tecnology managemnt language English abstract This research aims to investigate the causes and effects of construction contract termination in public building projects owned by the SNNPRS Industrial Parks Development Corporation the study will delve into understanding the rate of contract termination examining the underlying causes and evaluating the impacts of termination on social and economic aspects Over a period of six months the research will employ both qualitative and quantitative methodologies to provide a comprehensive analysis of contract termination dynamics The significance of this study lies in its potential to contribute to the existing literature on construction contract termination By identifying the causes and effects of termination the research will generate valuable insights for policymakers and practitioners offering effective strategies to manage and mitigate the consequences of contract termination Public construction projects play a vital role in delivering social and economic benefits and the implications of their premature termination can be substantial By conducting this research policymakers and practitioners will gain a better understanding of contract termination dynamics and be equipped with knowledge to optimize project management practices and minimize the negative impacts associated with termination To accomplish the research objectives a budget of 20 000 ETB has been estimated This allocation will facilitate rigorous data collection and analysis ensuring the research provides reliable and insightful findings Ultimately the findings of this study will contribute to the existing body of knowledge on construction contract termination and serve as a valuable resource for stakeholders involved in public construction projects

Construction Research Journal ,2007      **Causes of Delays and Cost Overrun in Road Construction Project** Romi Anku,2012-09-25      **Construction Law in Contractor's Language** McNeill Stokes,1990      *Usefulness of Adopting the last Planner System in the Construction Process of Addis Ababa Road Projects* Zenawi Limenih,2022-03-29 Master s Thesis from the year 2022 in the subject Engineering Civil Engineering grade 3 56 University of Gondar Institute of Technology language English abstract Modern construction is characterized by its efficient utilization of construction resources to accomplish numerous construction activities without waste But Addis Ababa s Road construction projects fail to be executed on time within the allocated budget and with the desired quality To solve this problem a new management concept is introduced namely lean construction It is known to increase productivity and minimize waste To realize this solution last planner system LPS is used it is one tool of lean construction It is a person or group of people with the task to control the production unit The main objective of this study is to assess usefulness of the last planner system implementation to advance the current construction process management in Addis Ababa city road projects The research was conducted on selected asphalt road construction projects located in Addis Ababa city To address the problems Questioners observations interviews focus group discussion and recently published journals were employed as a qualitative and quantitative data collection tools and analyzed using statistical package for the social science version 26 and super decision model version 3 2 The finding shows that the construction management process adopted in all three sites is more or less similar they use a push planning system and critical path method to determine the duration following the master schedule but have no weekly work plan and lookahead schedule to forecast the coming week s duty The LPS implementation expected barriers are also ranked from one to five as Labor related internal working environment related stakeholders related exogenous related and material related expected barriers respectively The last planner system has many benefits as agreed by different scholar s those are time related Cost related claim related and quality related benefits are the main benefits obtained through the LPS implementation and it is possible to conclude LPS is useful for the road construction management system The research is significant in creating awareness understanding on the adoption of the lean construction tool LPS in sustainable construction to improve knowledge and understanding of the implementation of LPS Moreover the LPS implementation conceptual framework was also developed based on the last planner system principles      **Management and Methods in Concrete Highway Construction** John Leman Harrison,1927      Canadian Journal of Civil Engineering ,2000      Transportation Research Record ,1995      Nigerian Journal of Construction Technology and Management ,1998-06

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