

AN OVERVIEW: CRITICAL FACTORS AFFECTING THE SUCCESS OF CONSTRUCTION PROJECT IN GWALIOR

Pratiksha Pandey¹, Dr Mukesh Pandey², Sohit Agarwal³

¹M.Tech student Department of Civil Engineering, ITM University Gwalior, Madhya Pradesh, India

²Head of Department Civil Engineering, ITM University Gwalior, Madhya Pradesh, India

³Assistance Professor, Dept. of civil Engineering, ITM University Gwalior, Madhya Pradesh, India

Abstract : The growth of performance has become more critical to the success of a construction project. The construction industries are facing complexity in the projects due to some critical factors. In the previous researches, different critical factors have been proposed. Some of critical factors have been listed commonly in the previous review papers which have been minimized by using different approaches and methodologies. Also, different ideologies have been proposed for the success of a construction project. This literature review has been done to gather the information about the causes and their factors which may affect the performance of construction projects.

The main objective of this review paper is to cover most of the factors which may be considered critical during any project. This investigation may in turn help the organizations in assessing the performance of the project management.

Keywords : critical factor, factor affecting success, performance.

1. INTRODUCTION

For the success of the project it is mandatory to investigate the factors which may affect the performance of the project. Such factors may known as critical factors. It is necessary to possibly minimize those factors in large number for the success of any project. For minimizing the maximum number of errors from the project first it is needed to be identify the problems. A success project may called that project which is completed as per the planned timing and budget. And if any of these two are not fulfilled then the construction project must considered as the failed project. Construction industries are very much suffering from these issues like projects are not being completed as per the planned time duration and also there are many critical factors occurs in the project which may the main reason of these failure. The right approach of starting any project should be first examine the construction site. And let know the do's and don'ts in the project.

1.1 Object and Motive:

As I have mentioned at the starting of this paper that what is critical factors and how they effect on construction project" so my object of this study is to know that the critical factors of

the construction project which are the main cause of the failure of the construction project. by examine those critical factors in this paper will categorized those factors as the most responsible factors for the failure of the project. I am doing this by preparing questionnaire survey.

1.2 Literature Review:

By the time of the study of this case, have been gone through different literatures, which are defining the major causes of affecting the success of the construction projects in their respective areas and also having some of the solutions for minimalizing those factors which are the cause of the affecting the success of the construction project. Some of case studies are given below-

According to T. Anoop, SS. Asadi, A.V.S. Prasad in November-December 2016, Volume 7, Issue 6.

In this paper they had prepared a framework on the performance of the construction projects on developing countries. they had given some factors which may affect the project performance and they are as follows- cost, quality, site, dispute, safety, project time.

They mainly indicated six factors in their respective paper which factors are affecting the success of the construction projects, client related factor, consultant related factor, extreme environmental related factor, supply chain related factors, contractor related factor. These are the mainly responsible factor for affecting the project success of the paper.

The data of this paper has been analyzed by using SPSS (Statistical Package for the Social Science) Person's correlation and Regression Analysis.

According to Afshin Pakseresht²⁹, Dr Gholamreza Asgari³⁰ in December 2012, Volume 4, NO 8.

In this paper a study have been performed in Pars Garma Company. Two stage programme have been performed in this research. They prepared one questionnaire and distributed in 58 employees of the company (staff manager, technical expert, project manager). And in the second stage they eliminated the lowest factors and again prepared one

questionnaire and it circulated in 15 organizational expert. And the final proposed critical factors are given respectively-contractor related factors, consultant related factors, contract related factors, employer related factors, effective factor in project management, project management related factor, project logistics related factor.

The data of the paper has been analyzed by Z-test and SPSS software 16.

According to Nipin Joseph Babu, in (March-April) Vol. 12, Ver.V

As the complexity and difficulties are very common now days, and construction projects are facing many problems due to this. They have tried to focus on those factors which are responsible for the complexity of the project and tried to minimize them hypothetically. Shortage of material have been listed number one in this research. Mainly focused factors in this papers are given below-

Cost factors, time factors, quality factors, productivity factors, client-satisfaction factors, regular and community satisfaction factors, people factors, health and safety factors, innovation and learning factors, environment factors.

They have determined the data by RII method.

According to ¹SAMARTHOMTHONG, ²WUTTHIPONG, 2nd April 2016.

Main focus of this paper was to group the factors in different categories and conduct survey for all of those categories to analyze which are the mainly responsible factors amongst them. They proposed nine categories of 179 identified. And listed top 10 factors from each categories and ranked them accordingly. There are some most effective factors are mention- major group, time performance, cost performance, quality performance, health and safety performance, environment performance, productivity, risk management, human resources.

They applied RII method for ranking.

According to Muhammad Saqib, Sarosh H. Lodi, in August, 2008, Karachi, Pakistan.

As the intricacy and complications present in the construction projects. To restrict these types of inconvenience during the construction project they have been gone through one survey to identify the main issues which are affecting the success of construction projects. And they find out 77 such small and big causes. And divided them in 7 different sections top 5 factors from every section have been analyzed by their ranking. And they finally proposed 5 major factors which were top ranked amongst all of the sections, which are mentioned below-

Contractor-related factor, project related factors, procurement related factors, design team factors, project management factors.

According to Alis Kahwajian¹, Shukri Baba², Omar Amudi³, Mohammed Wanos⁴, Jordan Journal of civil engineering, volume 8, 2014.

Main focus of this paper to collaborate the public and private sectors for the economic and social development. While working on this partnership they have faced many challenges such as weakness in the administrative and legal difficulties of public sector, lack of legislation. They have proposed this partnership on the legal grounds for the development of Syria. 22 main factors were find out and analyzed by questionnaire based investigation. The top most 5 critical factors are, favorable legal framework, political support, good governance, stable macro-economic environment, appropriate risk allocation and risk sharing.

According to Albert P.C Chan, David Scott, Ada P. Chan in 2004

A conceptual framework for the success affecting factors have been given in this paper. Hypothetically they have been proposed the construction project will be more executed and successful and also of shorter duration and overall management should be smoother if complexity of the project become less. They have been focused on the critical factors affecting success and not on the project success. Mainly there are 5 major critical factors are given which are having numbers of factors there are 44 such factors have been investigated top 4 factors of this investigation – project management actions, external environment, project related factors.

According to Zarina Alias, E.M.A. Zawawi, Khalid Yusof, Arish, NM, 20014

Main motive of this research is to enhance the construction project success. In this paper a wide study has done from the past/previous papers in which different variables have been proposed and listed on the top as the most affected factors for the successful projects. They held one survey and targeted experienced folks such as architects, engineers, manufacturers and so on, they discussed some factors which should be minimized for improvement of construction industries of Malaysia, and also they should practically implement on the construction sites. They investigated all the influencing factors, and mainly focused on 5 (CSFs) – project procedure, project management action, external issues, human factors, project related factors.

- Construction Projects takes place in a complex and challenging environment. A reliable way to minimize the complexity of construction project is to work on those factors and try to minimize them which are the main causes of complexity and coming in-between the success of the construction projects, some of such factors have been investigated while studying various researches papers. - Environment factors, project management actions, contractor elated, cost related factors, quality related factors.

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