# Analysis of Factors Affecting Highway Construction Project Collected Through Stake Holders Perspective And Reduction of Construction Time And Costs

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Abstract- In particular, in the past few years, the construction industry has grown extensively at a global level. The protection of the construction system and the support staff is of prime importance for making a construction project successful. The success of an organization and any type of construction project depends heavily on the planning of safety and health and its aim is to achieve clear, successful construction on construction sites without death or harm between the workforce and other construction executives. The deaths or injuries of people on construction sites lead to different types of negative consequences and bad impacts on the business image.

Interestingly, the number of writers made a significant contribution with conflicting viewpoints and different opinions on construction accident and safe work insensitivity in considerations to safety regulations in the management of creating and manufacturing techniques, but they have done little to put together critical causes and factors that counter protection in a great way and in an easy manner. Data were used to classify these factors as maintenance workers affected building sites as descriptive and inferential statistics. The data obtained by field staff and their classification was gathered in terms of receiving personal protective equipment or PPE equipment. A building site census was performed and 76 workers were focused, 68 of which were answered.

The results have been presented and calculated with Mean Score in statistics, text files, and graphs. The information presented in this research project encourages building management to normalize the risk of projects and the management of health and welfare. The findings indicate that the usage of PPE and the value of protection at the construction site is not the prime consideration of the administration. In so many other places recklessness with respect to the use of the PPE is evident. Risk prevention is often found when the usage of PPE is not tested on a regular basis and protection standards are not observed. Lack of infrastructure is one of the principal causes of the protection deficit in the construction process.

#### I. INTRODUCTION

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Since 2011, 3.6 billion people have lived in metropolitan areas around the world, accounting for half of the global population (World Bank 2013). While our municipal and metropolitan areas continue to grow, the demand for a partner organisation or stakeholder in the decisions that are taken in their development also necessitates modification (Isaacs, et al. 2010). With the constant influx of people into large urban areas, there is a need to stimulate, update, and rejuvenate routine run-down and overlooked conditions in order to support and invigorate future development (Jones and Evans 2008). As scientists (Giddings, et al. 2002; Isaacs, et al. 2010) keep up maintainable advancement fuses these three components when moving toward the metropolitan turn of events, it is critical to facilitate and deal with the various natural or environmental, social, and financial variables in order to compel and awaken the development and extension of these metropolitan focuses. The management of the numerous outside partners, which can have both a good and negative impact on the overall success of a business, requires special attention. Nonetheless, research on the effective management of this disease is limited, with authors failing to go deeply into the topic (Gilchrist, et al. 2002; Spillane, et al. 2013); thus, failing to recognize and address the numerous concerns and problems that arise in such an area.

#### 1.2 BACKGROUND OF THE WORK

Significant development projects and commercial enterprises have become crucial and important to operational brilliance in business procedures. However, comprehending new developments comes at a great cost and risk. In 2013, the United States spent almost \$250 billion on information technology projects and development (The Standish Group, 2014). Information and technology schemes produced 60 percent of gross agreements in one firm alone, amounting to USD 27 billion (Carvalho, Patah, &Bido, 2015). The current situation, in which commercial enterprise project venture chiefs (PMs) carry out their specialization with a larger network of partners, is theoretically complex and frequently

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affect the project venture, or a negative network response to the project undertaking. Each of these challenges arises from the lack of support from project stakeholders, which has an impact on the financial limit and plan.

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comprises decentralized and virtual groupings. PMs face an enlarged reasonable variety and geological spread of their ventures' partners in this way. Davis (2014) noted that the partner hypothesis limited associations' perceptions of their commitments to people and things other than their investors. IT PMs apply partner hypotheses by developing and implementing project partner the board strategies (Mainardes el al., 2012; Mir &Pinnington, 2014). IT PMs increase an organization's financial value by recognising partners' preferences and incorporating their knowledge, support, abilities, and experience into their Information technology development and strategy (Doh& Quigley, 2014). In any event, one important issue to note is that, in general, information technology development and design have high failure rates, with researchers claiming that stakeholders and partner board systems were the most important factors in venture failure (Badewi, 2016). Mishra and Mishra (2013) recognised that differences in stakeholders' or partners' points of view created problems for IT development scheme chiefs who were trapped in the middle and expected by their administration to "gain arrangement" with stakeholders partners, who may have conflicting interests and desires (p. 257). Due to a lack of consensus among partners on the components of task success, as well as evidence of project failures, a new investigation into partner the stakeholder executive's procedures used by IT official administration was required.

Corporate Social Responsibility is individually associated with the stakeholder administration. Corporate Social Responsibility (CSR) is defined as a purposeful social and environmental major concern in corporate transactions and relationships with stakeholders (Enquist, 2006). The associations aspire to have a social responsibility that extends far beyond their responsibilities to investors. Doh and Guay (2006).

From perspective of Corporate Social the Responsibility, organizations recognize that they have an ethical obligation to their stakeholders based on ethical, social, and economical considerations. Organizations that are socially responsible make an effort to use ethical behavior in collaboration with stakeholders. Anyway, the normal and natural nature of this ethical obligation, as well as how it could be translated into activities and corporate behavior, is not described. The social corporate commitment is interpreted in specific activities asked by society, such as modest labor, reasonable exchange, and so on, in various business zones. In any case, profound quality and moral responsibility are less defined and described in the development field.

### 1.3 IMPACT OF STAKEHOLDERS ON PROJECTS

# AND ORGANIZATIONS

As has been established, if stakeholders are ineffectively managed, the chances of project task completion are greatly reduced. The viewpoints that are taken into account with the project task destinations, the ones that are influenced by the lack of investment from stakeholders, are unique. In this case, the project venture supervisor faces difficulties in clearly defining the job's purpose in the absence of clear and precise goals; neither the project venture leaders nor the remaining stakeholders will know when the work will have reached its objectives.

### II. LITERATURE REVIEW

(Curran and Spillane, 2016)Huge construction development project undertakings can make various threads and can carry numerous dangers, making it one of the most unsafe enterprises in which to employ. This component of hazard increments in anmetropolitan growth, which can contrarily affect the external stakeholders related to the construction project development venture, alongside their general surroundings. Along these lines, this document means to recognize and report the various issues experienced by project development venture administrators from external stakeholders and how they influence construction development project developmentventures, especially in a limited site condition. Intending to this point, the central goal is to distinguish what issues are engaged with dealing with the stakeholders in these inalienably hazardous conditions. A subjective approach enveloping a useful writing audit is attempted, trailed by five contextual investigations with experts in the industry. The information assembled is evaluated subjectively utilizing mind mapping programming, and intellectually summed up. Twenty-six issues are recognized, and all in all five principle topics happen; natural, traffic, legitimate, wellbeing, and security and correspondence

Furthermore, even if the project undertaking is successful from the perspective of the supervisor or the organisation, the stakeholders will be dissatisfied with the project task results if the project undertaking does not meet the needs of the goals of both groups. (Jergeas).

Other potential issues related to ineffective management include a reduced level and scope due to the lack of a description in place, employment issues arising from relegated cause to the project task, administrative changes that

Page | 1154 www.ijsart.com issues. A wide scope of issues can create contingent upon the unpredictability of each task, yet this examination will outline and fortify to extend supervisors that early distinguishing proof of issues, joined with powerful reaction procedures, can be utilized to deal with the issues considering external stakeholders on metropolitanconstruction development project ventures.

(Karimi and Rahim, 2015) Thegrowing significance of ecological and environmental problems needs endeavors in various regions of investigation and functioning. Green Supply Chain Management (GSCM) tenders extraordinary possibilities for the developmentand enhancement of biological execution of producers. The motivation behind this paper is to investigate the stakeholders' which are leaving any affect or pressurizing on green supply chains, and to build up a scientific categorization system known as taxonomy structure that can be utilized for green supply chain makers dependent on the fundamental measurements for the green supply chain. The ordered structure taxonomic is created through (I) investigation of various component of green supply chain found in existing observational work or contextual investigations recorded in the writing, (ii) distinguishing proof of key stakeholders' weights that impact green supply chain management activity.

(Li, Verhagen and Curran, 2020) Prognostic and

#### III. METHODOLOGY ADOPTED

#### 3.1 INTRODUCTION

This section discusses the procedure that was used during the investigation. This includes the exploration setup, system analysis, data collection technique, inquiry, and the impact of various stakeholders' consent. The section justifies the technique that will be used to achieve the specified research objectives. Similarly, many strategies and steps are discussed in order to further the growth of external stakeholder administration.

#### 3.2 STAKEHOLDER MANAGEMENT STEP

Within stakeholders, there is a set of people known as the most important, because they are critical to the strategy's success. They are correctly linked to the organizations that carry out the project, such as through a company manager's agreement. External stakeholder executive meeting of a variety of individuals who aren't technically members of the organization imposing the development. Regardless, they can have a substantial impact on the project development project or they can be of minor relevance. The gathering necessitates the constant supervision of the project development venture

chief due to its specifications (IFC, 2007).T. L. Young (2000) identifies two key stakeholders in any project: the client and the project development venture's developer. Stakeholder executives in the project development venture should be thoroughly examined by the project development venture's leader. One of the most important components of the project development venture's early stages is the examination of stakeholder executives. This approach is divided into three stages:

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- Detecting and verifying stakeholder executives;
- Researching and maintaining their characteristics and attributes, as well as ranking their authority force;
- Scheduling and formatting the accomplishment technique for everyone's consideration.

The preceding phases are linked with mentioning the distinction between diverse groups of individuals, people, or businesses who are still logically consistent:

- which will have an impact on the project development venture;
- which will be involved in the project development venture;
- which can be maintained, can turn out to be partner executives in the project development venture, even if the project development venture could be imposed without them;
- which can become an inconsistent part of a project development venture. They can recognize its accomplishment as a threat to their company.

A conversation or brainstorm gathering is one of the approaches for recognizing proof of partners. During the conceptualizing phase, all work gatherings are given a traditional person's name (Calvert, 1995). Separating stakeholders partners into outside and inner stakeholder partners is one of the easiest and most well-known strategies of dealing with them (Winch, 2004). The surpassing photos have revealed a case of this dissociation. Figure-1 show the separation of a variety of stakeholder partners.

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Figure-1 Project Stakeholders Division

#### 3.2.1 CHARACTERISTICS OF STAKEHOLDERS

The following criteria can be used to fulfill the qualities of the stakeholder executives:

- The importance and significance of stakeholders to the project development venture;
- Project authority and its impact on the entire organization and its dealings;
- Stakeholders' strong and weak phases;
- Stakeholders' strong and weak phases;
- Industry implementation fundamentals and possibilities;
- Qualitative and quantitative characteristics.

#### **Second Stage**

The next phase of the approach involves stakeholder executives assessing the magnitude of their impact on their project development undertaking. This investigation must be finished on all recently notable project development stakeholders. A grade based on two models should be possible to continue the investigation of their impact accuracy. The first is the definition of the aim, and the second is the prospective impact on the project development venture to achieve it. The evaluating force can be evaluated by the project supervisory team or the project administrator based on his past experience and experiments with project development ventures. Stakeholder characteristics should be possible based on an overview and face-to-face discussion.

#### **Third Stage**

The planning activity strategies for each of them are the third phase and period in the stakeholder execution examination. The system must be built along these lines in order to convey the required data on each stakeholder's tendencies, as well as the required commitments and sources. It is possible, and even recommended, to create a stakeholder commitment structure during this time. One noteworthy rationale is that stakeholders who are up to the task are far more accommodating than those who have poor conduct and demeanor. These persons who can be concerned about task success or failure should be given extra consideration.

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#### 3.3 SURVEY QUESTIONNAIRE

The survey was broken down into three pieces and consisted of two separate pages. The design was the first phase, which consisted of three questions. The following section consisted of two questions about how to define the term "stakeholder" and how to characterize it. The final portion, which consisted of seventeen questions, focused on the exploration's topic. There were twenty-two questions in all in the survey. When the inventor put together the survey, he selected to include such a huge number of questions in order to ensure its consistency in quality and the respondent's focus from the first to the final question. The quantity of questions chosen should encourage people to take the test. The poll's developer requested the experts to respond to a question on the stakeholder influence of each stage of the project development process. The stakeholders were treated as if they were in a single meeting, with no partitioning and a specific test meeting. The survey was skewed toward the Likert five progressive levels, with the force being calculated as follows:

Table-1 Impact Level and Ratings

Impact Level	Points
Very big impact	5
Big impact	4
Limited impact	3
Small impact	2
No Impact	1

24 project development venture leaders were invited to join the project development venture from the previously described regional inquiry. Twenty of the 24 people who were contacted returned a completed poll (the achievement ranking was 83.33percent). Cafeteria questions and the correct inquiry were used to conduct the survey. The goal of the investigation was to look into the impact of stakeholders on the project development venture's execution (without categorizing stakeholders into different groups and meetings). The entire

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study has an excellent quality as a result of the extremely little study test dimension, and the examination was completed using enlightening insights instruments. The goal of the investigation was to break out the impact of stakeholders on task performance (without dividing stakeholders into different meetings and parts). The entire research and exploration has an excellent character as a result of the very small study test dimension, and the examination was completed using graphic insights devices.

#### 3.4 EXTERNAL STAKE HOLDER ISSUES

The table below shows the concerns that were given a score based on five topics that were grouped. Based on the survey and reasonable circumstances, these issues are separated. The contribution of each identified problem in a subject will be given a score of 1 and will be included last. In Table-2, these issues are discussed.

#### 3.5 HEALTH AND SAFETY

Health, fitness, and security issues are another hot topic, with a focus on Traffic Management and excessive sound/dirt/vibrations from location initiatives. These issues have the potential to become a significant problem for a project development project, and two of the respondents constantly emphasized the importance of their position as task directors in figuring out ways to mitigate these risks while on location. These findings support Chapman and Ward (2004)'s assertion that development exercises involve a great deal of risk and vulnerability. Cooke and Williams (2004) add to this argument by stating that development is unquestionably a risky business, while Maytorena, et al. (2007) believe that managing risk is critical to avoiding negative consequences in the future.convention management, and Excess certification and document throughout the training and research time, were identified in the group examination using cluster analysis. The applicant for the extension development recognized that complications like these will wreak havoc on project development endeavor plans before any construction work has even started nearby. Furthermore, it was emphasized that, in the vast majority of circumstances, the project undertaking administrator has little or no control over such factors. As these issues have revealed a few limitations of current practices, such as increases in venture complexity and new acquisition procedures. Egan's (1998) initial report emphasized the desperate need for project managers to include all phases of a project, as this would result in a better presentation.

Table-2 Categorization of issues in different themes

Issues	Environm ental	Traf fic	Heal th and Safe ty	Leg al	Commu nication
Road	1	1	1		1
Closures	•				-
Traffic					
Managem	1	1	1	1	1
ent Issues					
Noise					
from Site	1	1	1	1	
Works					
Water					
Mains	1			1	
Turned					
Off					
Electricity					
Turned	1			1	
Off					
Excess					
Document	1	1		1	1
ation and					
Paperwork					
Wildlife -					
Fisheries –	1	1		1	1
Pollution					
Controls					
Criticism					
of the		1			
Project					
Necessity					
Timely					
Notice of	1	1			1
On-site					
Issues					
Obstructio					
n of Water		1			
Traffic					
Pavements					
- D 1 ( )					
Pedestrian		1	1		
Access					
Closed					
Public	1	1			
Condemna	1	1			
tion					
Temporar	1	1	1	1	1
y Road	1	1	1	1	1
Closures					

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Temporar					
y Access -					
Pedestrian		1	1	1	1
Routes Set					
Up					
Dust and		1	1	1	
Vibrations		1	1	1	
Live					
Classroom			1		
s Nearby					
Disruption					
of					
Lectures				1	1
and					
Classes					
Problems					
with					
Planning				1	1
Permissio					
n					
Project		1			1
Support		1			1
Slow					
Response	1				1
Rate					
Legal		1	1		1
Issues		1	1		1
<u> </u>		1	1	l	1

#### IV. RESULT DISCUSSION AND CONCLUSION

#### 4.1 INTRODUCTION

This chapter present the discoveries of the distinct measurements is utilized for encouraging important examination.

#### 4.2 RESPONSE RATE

In this investigation, respondents, for example, project development venture administrators were drawn from the structure building locales and organizations in the Bhopal area. The accompanying attributes were taken into consideration: person's age, their gender, and understanding and skill along with prior experience. The outcomes demonstrate that out of the 24predicted sample model, 20 respondents were divided created83.33% reaction speed.

#### 4.3 DEMOGRAPHIC CHARACTERISTICS

This area concentrates on the outcomes acquired from the study and reactions which are gathered from the task

chiefs and leaders from various construction building destinations, areas and organizations in the Bhopal region which are separated according to its age, involvement with the development business, and their gender.

## 4.4 DISTRIBUTION BY EXPERIENCE OF RESPONDENTS

In the primary stage, there was few problem and concerns; the respondents have posed an inquiry about their involvement with the project development venture administration. The outcomes were as per the following: 23% addressed that they have been overseeing project development ventures for lesser than two years, 46% addressed that they have been overseeing it somewhere in the range of two and five years. The intervening 5–10 years picked 22% of the respondents, 9% of them overseeing project development ventures over 10 years (Figure 4.1).

Table Frequency distribution of respondents by experience

Age	Frequenc y	Cumulati ve Frequenc y	Valid Percenta ge (%)	Cumulati ve (%)
Less than 2 years	4	4	20	20
2 – 5 years	9	13	45	65
5 – 10 years	5	18	25	90
Abov e 10 years	2	20	10	100
Total	20		100	

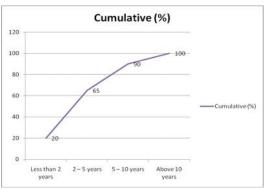


Figure-2 Line Curve for Cumulative Frequency Percentage

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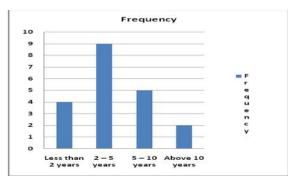


Figure-3 Distribution of respondents by age

#### 4.5 CONCLUSION

The research findings in the review and evaluation process enable the delivery of a function that the stakeholders as a whole consider significant for the program's overall execution. Their influence is so great that it's difficult to see that they agree on the project's success or failure, and that they must be dealt with not only during the preparation phase (by identifying them), but also during the development phase (by measuring their influence and activity during the project's execution), and during the development closing phase. Stakeholders have a major or very large impact on the expanding region, according to respondents. The specifics are shown in Table 4.5, which shows the most frequently chosen options by respondents. As a result, it is logical to conclude that the impact of the stakeholders on the project's implementation is significant, as the effect was identified as a big impact (BI) in three cases, a limited impact (LI) in three cases, and a very big impact in five cases (VBI). The response categories included no impact (NI) and small impact (SI). Even when asked about the overall effects of the initiative's implementation, the first and most common response was "a lot of impact" (BI). Project managers will therefore consider potential partners to be their greatest friends, rather than competitors.

Many factors have shown in Table 4.7 that they have a significant impact on the project, and thus, by average standards, impact on stakeholder identity, importance on project expenditure, influence on project team performance, and influence on project direction as a whole, are reported as having the most effect and highest impact point, i.e. VBI. The impact on the project preparation stage and the effect on the permission, on the other hand, is highly influenced by the ranking of SI Small Influence.

There are various major issues that affect potential clients, and assessments are made based on the level of discomfort experienced. In this scenario, traffic safety issues and imminent road limits are the two main concerns of

existing stakeholders across all five themes. Although the disturbance of water flow and the presence of live classrooms adjacent has the least impact, it remains a source of concern. As a result, these are the considerations that business analysts must consider when dealing with various stakeholders.

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