

# Safety in Construction a Management Perspective - A Review

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**Abstract:** *Safety of the workers is the most important norm and should be followed judiciously on the construction site. This has to be seriously reviewed from time to time and monitored carefully by the employer. The authors of the present study therefore present an overview of the different aspects of safety in construction and their implementation. This review displays an investigation into the nuances of the construction industry enabled to enhance safety execution. The main aim of this study is to identify the basic achievement factors responsible for execution and to look into the security administration on site. Safety administration is the basis for the coveted changes in arrangement of work and attitude. It gives everyone working on site specially the workers a feeling of wellbeing in various work activities. It helps in obtaining essential information about the dangers and necessary precautions to be taken. This review reveals the various security lapses and their consequences experienced and sustained by the workers and support staff of the construction industry.*

**Keywords:** Safety, Safety of Worker, Safety Administration, Lapses Execution, etc.

## I. INTRODUCTION

Everyone who works needs to know how to work safely and without risking their life. Employers should give their workers the right information, instruction, and training so that they can work safely and take steps to protect themselves from unsafe working procedures leading to hazards. This is not only a legal duty of the employers but it also contributes to the success of their business by providing a hazard free work environment. The construction industry plays a very important role in the development of our country and it is one of the most labor-intensive industries. Hence as a large workforce is involved which is skilled in its work but not literate, ignorance and illiteracy leads to accidents which may have very threatening results. The construction industry seems to be inefficient to some extent, in managing workplace health and safety of the workers. This makes it the most hazardous and risk enduring industry in terms of fatality observed and experienced.

A positive employer society can be a powerful apparatus for improving security in an association and in providing safe working conditions at the workplace. Increasingly in the present decade, employers have demonstrated enthusiasm for a safety and wellbeing of the workers. This is the reflection of the various accidents involved and strict government norms in dealing with the culprits, who have compromised with the safety of their workers.

## II. OBJECTIVE OF THE STUDY

The benchmarks have been set up by the government along with legalities to be followed by the employers, but their implementation should be strictly monitored. The employers should shoulder the responsibility of implementing and imposing these benchmarks and strictly monitored if they are being compromised at any level. Strict punishments should be given to employers and employees who fail to abide by the norms set up by the government.

The purpose of this study is to analyze the set benchmarks and whether they are being followed for the safety and health security of the construction contractors, workers and support staff.

## III. LITERATURE REVIEW

A review of the existing research articles was carried out by the authors and their study was analyzed for its innovativeness and perception. The views expressed by the various authors are included in the present study.

**Abdul-Rashid Ibrahim et.al. [2007]** investigated the factors affecting safety performance in large constructions in Egypt and found that safety factors were compromised everywhere. The most neglected part of the construction activity is the safety and health of the workforce [1].

**Khan Suguna Raghunath et.al. [2015]** investigated the safety work environment in the construction industry. The objective of their study was to investigate the execution of safety management in construction industry. After investigation it was found that the safety of the workers as well as the he construction industry was at stake in various construction sites. The deficits observed were, for example, absence of information about the need of earth association for control apparatuses and absence of learning about links shield from mechanical harms [2]. She further concluded that safety policy, standards, safety training, investigation for hazardous conditions, personal protection programs, safety promotion and management behavior are taken for granted by both the employers and employees.

**Kanchana Sivaprakash Joseph et.al. [2015]** focused on the large development overall in the construction industry in the past few decades. The author expressed her concerns that the project will be effective if and only if the safety of the structures and that of the staff and workers are of given extreme importance. The safety issues are to be viewed as ideal from the design organization till the completion of the construction activity and handing over of the structure. A proper coordination between workers, management, and support staff is required for safe working conditions and there is a dearth of this in Indian construction companies. Employers can simply check the rule book and draw up an appropriate wellbeing and safety design particular to business working environment and employees [3]. The author further concluded that there is lack of proper coordination between workers, customers, and workforce.

**Saat Mohd Subramaniam Shamsudin et.al. [2017]** presented that safety performance is one of the new found fields of the construction industry and is now accepted by all as a specialized field. Researchers around are focusing on this area. The paper talks about the prime issues that require before directing an examination on safety performance. This study on safety execution ought to be founded as a multi-level analyses.

**ChenYuting. et.al [2017]** investigated the malpractices in the construction industry and came up with surprising figures regarding the rate of malpractices over the world due to its high hazard and quick changes in work environment. Safety administrators are one of the key staff mindful and responsible for safe management system. Their quality, integrity and competency are very important for site safety execution. Safety officers are not serious about site safety management [4].

**Jothsna Jegan et.al. [2017]** present that construction works everywhere throughout the world bearing genuine risk to workers . in this paper the effects of the chronicled, sparing, mental, specialized, procedural, recurrence and the ecological issues are considered regarding how these factors areconnected with site safety performance. It was observed to be that the workers have gottena constrained culture of safety awareness. Economical, psychological, technical and the environmental issues are not considered [5].

**Mohammed Shamsul Bakri et.al. [2017]** stated that safety management is related with the arrangements, targets, techniques, strategies, parts and capacities that go for controlling peril and hazard . The mindfulness and impression of workers toward safety,wellbeing and their workplace are essential perspective to upgrade the building construction to the better condition of the workers. He also stated that knowledge and attention to safety management framework is very important thought for safety management framework [6].

#### **IV. METHODOLOGY**

This is a review paper where in various research works of different authors were studied and the observations were studied and Conclusions were drawn. Site safety is one of the most important issues, especially in construction projects. It is important to pay more attention to safety management in construction projects as there is a direct threat to life

#### **V. CONCLUSION**

After reviewing various research works following conclusions are drawn:

1. There is lack of knowledge about how to use equipment's on site and also lack of management.
2. There is lack of awareness among managers, safety officers, supervisors etc.
3. The construction site should have good and structured safety practices namely safety policy, education and training, site safety inspection, safety auditing, safety meeting, site safety organization, personal protective equipment, emergency support and safety measuring devices, fall protective systems, and safety promotions
4. Warning signs, guides or reflector should be displaced where necessary on site.
5. Construction Companies should look to improve their policy.
6. Continuous safety development should include 6 steps. These steps involve creating safety regulation, identify hazard, assess and evaluate risk, decide precaution, record findings, and updating finding in relation to the work condition.

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