

# Optimization of Labour safety And Risk Management In Construction

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**Abstract-** *The construction industry has been examined as a highly unsafe industry because of more number of deaths caused by many incidents/accidents. The working sites need changes within the nature of labour, the situation of manual labour and the mixture of skilled and unskilled workers. As the Indian construction industry remains labour-intensive the correct harmonization between workers, artisan, customers, and workforce is required for a secure labour environment which is considerably lacking. The research has demonstrated the recognition of unsafe working condition. And so, the underestimation of safety risk may be a widespread problem. therefore, effective safety administration is the major thing to acknowledge and managing hazards and prioritization to safety a must and this will also lead to enhanced success in project accomplishment. The work was initiated by preparing a questionnaire survey among the various persons involved in this work, it present system of practice happening with respect to safety in the real estate sector in a metro city and to ascertain the quality of output received through the questionnaire and also to quantify the data and the influencing factor among the psychological factors as the major influencer in the safety of building sectors. It is further helped to optimize the factors influencing safety in the construction industry.*

## I. INTRODUCTION

Safety means free from danger or risk and managing the workers/ labors ensuring safety is called management. There fore the construction site safety and management deals with safety of labors and employees working at the site. In India the construction industry is the second largest employer next to agriculture about 3 million people are employed in construction employs sector. Indian construction industry is labor intensive comprising of semi skilled and unskilled workers. Therefore safety of labor at the site should be kept in minded. The best way to protect workers against dangerous to control problem at the source. The problem regarding construction industry is not that the hazard and risk are unknown. But it is very difficult to accurately identify in a construction changing environment. To prevent health hazards at work all possible hazards that may be controlled should be

identified in advance. In that present story various type of hazards present in construction areas were identified and appropriate for hazard prevention were suggested.

Reduced workers compensation claims reduced expenses related to injuries and illness reduced absenteeism lower employee. Complaints improved employee morale and satisfaction increased productivity reduction of hidden cost reduced insurance cost.

## HIDDEN COST

Workers compensation cost replacement and training cost for new or substitute employee poor quality penalties for non compliance. Construction activity in India has travelled a long distance from the humble beginning of building simple structures and roads and minor civil work project, The industry has changed significantly particularly. The social concern of the safety of construction workers and their protection against injury arising out of their employment has been quite evident from a long term.

## CONSTRUCTION INDUSTRY

Importance of safety. The construction industry, employing the largest labor force in the country has accounted for about 11% of all occupational injuries and 20% of all deaths resulting from occupational accidents. The cost is not the only reason for which a contractor should be conscious of safety. The reasons for considering safety include.

## CONSTRUCTION SAFETY

### Humanitarian concern:

economic terms. The When the accident happens, the resulting suffering of the injured workers and their families is difficult to quantify in contractor should never ignore if he has insurance against accidents.

### Economic reasons:

Even if a contractor has insurance, he will find out that the cost of accidents will come out of his own pocket through an increase in insurance premiums. In addition, there are the indirect costs of accidents. Medical care expenses for injured. Workmen's compensation costs insurance premium increases. Replacement cost of equipment and material damaged in accidents. Facility repair and clean up. Fee for legal counsel.

## LAWS & REGULATIONS

As per different acts & laws, the employer should look after the safety of the employee. Violation of these laws will be subjected to punishment. Organizational image a good safety record can produce higher morale and productivity and stronger employee loyalty. It will also improve the company's public image and therefore make it easier to acquire negotiated job.

## PROBLEM IDENTIFICATION

The safety of construction industry will directly affect the personal safety of the construction personnel. Therefore the safety management of construction project should be sustainable development. Less supervision of the relevant management department. Enterprises do not attach importance to the problem of safety management. Safety precautions are weak. In 1996 the building and other construction workless regulation of employment and conditions of service 1996 was formulated. The central rolls under this act were notified in November 1998.

## II. CONCLUSION

Cost over run is one of the critical problems faced in the construction industry. The basic goal is to achieve the completion of project within stipulated time and cost budget. In this study, various factors causing cost over run were identified and the most significant factors influencing the cost overruns were analyzed. The three parties (client, consultant and contractors) are responsible for the cost overrun in the construction projects. Also the rank levels of cost overrun are not different from the views of the three parties. They generally share the same opinion. Financial difficulties could also occur from the owner side where there is a delay payment of monthly valuation to the contractors. □ Mostly, projects are awarded to the lowest bidder with lack of supervision skills. In such cases, less consideration is paid to contractor's plan, cost control, resource allocation (labor, material and finance). Cost over run can be identified by using two methods, one is ranking method and another one is comparison of estimated cost with the actual cost. Major causes of cost over run found

to be improper planning, unavailability of material, increase the material and machinery prices, weather condition and lack of experience in site can yield cost overruns.

## REFERENCES

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