

Construction Safety Management: Review

Priteshkumar Indore

Student, AISSMS College of Engineering, Pune, India.
priteshkumarindore@gmail.com

Abstract— The Indian society and economy have suffered human and financial losses as a result of the poor safety record in the construction industry. Owing to its relatively labor-intensive nature, construction works provide opportunities for employment for a wide range of people skilled, semi-skilled and unskilled. Despite its importance, construction industries are considered risky with frequent and high accidents rates and ill-health problems to workers, practitioners and end users. The findings of the study show that all responsibility on risk management is with the contractor, and it is carried out only during construction phase. The study will also reveal several factors of poor safety management. Thus the paper will conclude by providing a set of recommendations and strategies to contractors for improving their safety performance.

Keywords: - Safety, Management, Analysis, Construction Industry.

I INTRODUCTION

Importance of construction industry in social and economic life is significant. The industry needs more investment and various types of people are involved in it. Construction sites have been regarded as very risky areas where construction workers are subject to fatalities and ill-health problems. Many building construction activities are inherently risky to health and safety such as working at height, working underground, working in confined spaces and close proximity to falling materials, handling loads manually, handling hazardous substances, noises, dusts, using plant and equipment, fire and exposure to live cables. This study focuses on the practice employed for health and safety risk assessment, communication and control at construction sites. The construction industry is usually very large, complex, and different from other industries. Hence it is prone to numerous health hazards.

II SAFETY REQUIREMENTS

The construction field is considered as one of the risky fields as the chances of accidents are quiet high at sites. Construction safety and better control is one of the keys to prevent accidents on site. Safety is a global issue which needs different approach to solve it. Improving health and safety in the construction industry therefore continues to remain a priority.

III IMPORTANCE OF SAFETY IN CONSTRUCTION

The construction industry has traditionally been considered as a hazardous occupation due to the high incidence of occupational injuries and fatal accidents. The number of fatal occupational accidents in construction all users the world is not easy to quantify, as information on this issue is not available for most countries. The outlay on construction in successive live year plans of India has been in the range of 36% to 50%.

IV NEED FOR SAFETY REQUIREMENT

The construction industry has various features which may directly lead into an accident. In this trade the pattern of work is ever changing. The operations and physical circumstances change constantly unlike in the factories where the process, the method and the operations are generally respective. Timings and schedules vary considerably from place to place. The most important changing factor the change of men themselves. The inherent nature of construction jobs combined with the above factors make this industry as one with accident risks.

All Contract documents signed by the Owner and contractor contains various safety clauses wherein the contractor is obligated to make Provisions for the safety of men and structure and the consequences for failure to do so. The contractor is already mandated by law to comply with state and national regulations. The owner has to demand that the contractor document and implement the proper safety programs that will protect employees working on the job site. Owners sometimes hesitate and feel that they are interfering with the contractor's say of doing business if they express concern over safety at a jobsite. In reality owners have the absolute right to mandate that a quality safety program be an important part of the selected contractor's culture.

V CONCLUSION

The working conditions in construction field are hazardous than other industries due to the use of heavy equipment, dangerous tools, and hazardous materials, all of which increase the chances for serious accidents and injuries. So that the safety is needed from construction at all levels. safety management in each stage of project execution including project design contract selection, contract development, the construction phase, selecting safe contractors, and developing the safety culture on the projects through safety training and safety recognition programs.

REFERENCES

- [1] Dayana.B Costa; Carlos T.Formoso; Michail Kagiogloa; Luis F.Alarcon; and Carlos. H.Carldas, (2006) ” Benchmarking Initiatives in the Construction Industry: Lessons Learned and Improvement Opportunities” Journal of Management in Engineering, Vol. 22 , No.4,October 1,2006.ASCE,158-167.
- [2] Jimmie Hinze and Xinyu Huang and (2006) “Owner’s role in construction safety” journal of construction engineering and management, Vol.132, No.2, February 1 2006.ASCE, 164-173.
- [3] Lee, S. and D. W. Halpin (2003). "Predictive Tool for Estimating Accident Risk." Journal of Construction Engineering and Management 129(4): 431-436.
- [4] Rafiq M.Choudhry; Dongping Fang; and Sherif Mohamed(2009), “Developing a model of Construction Safety culture”, Journal Construction Engineering and management ,Volume 23, No. 4, October 1, ASCE ,pp 207-212.
- [5] Gregory Carter and Simon D. Smith (2006) “Safety Hazard Identification on Construction Project” Journal of Construction Engineering and Management, Vol.132,No. 2, February 1,2006 ASCE,197205.
- [6] Kin Dorji and Bonaventura H. W. Hadikusumo(2006) “Safety Management Practices in the Bhutanese Construction Industry” Journal of Construction in Developing Countries, Vol. 11, No. 2, 2006.

BIOGRAPHY

Priteshkumar Indore: Studying Civil Engineering at AISSMS College of Engineering Pune. Worked as a Site Assistant manager during summer vacations to gain knowledge practically on field while studying.