

REVIEW ARTICLE ON HEALTH AND SAFETY KNOWLEDGE AND COMPLIANCE ON CONSTRUCTION SITE

Lab Kumar singh¹, Mukesh Pandey², Sohit Agarwal³

¹PG scholar, Civil Engineering Department, ITM University, Gwalior, M.P, India

²Professor, Head of Civil Engineering Department, ITM University Gwalior, M.P, India

³ Assistant Professor Civil Engineering Department ITM University Gwalior

Abstract -Health and safety issues have always been a major problem in construction industry. In previous record construction industry is found one of the most dangerous field in most developing countries, India is the one of them. In Indian construction industry worker don't have enough knowledge in health and safety on construction sites, they don't know welfare facility, health and safety plan and policy, health and safety management system and there are no health and safety compliance on site, if it given on construction site worker don't use this facility. they don't know how much impact of health and safety knowledge and compliance on project performance. Building construction workers health and safety knowledge and compliance is poor. This thesis specially finds out the level of health and safety knowledge of construction worker, level of health and safety compliance of construction worker, and impact of health and safety knowledge and compliance on project performance.

Key Words: Construction 1, health and safety 2, knowledge3, compliance 4, project performance 5, construction labour 6

1. INTRODUCTION

Health and safety is clearly connected with or related to all branches of industry; it is most important for the construction industry. In recent time India is the one of the most developing countries. It has always been a critical issue as it is carefully thought about/believed as among the most dangerous areas when it comes to occupational sudden unplanned bad events/crashes. Construction industry is linked with the dangers/risks related to the site activities. The laborers and workers come from different areas and background. These workers are exposed to risks, occupational sicknesses and health dangers/risks which cause illness and injuries. This leads to loss of time and legal difficulties. Therefore, it is extremely important for any construction project to have certain health and safety knowledge for site activities and to create awareness among the workers.

The health and safety conditions in the construction area of India are quite poor. Most of the work in the construction area executed by human toeing which has led to increased number of injuries and death. Although national statistics show that the injuries in the construction area is little

decreased, but it is still very high as compared to the developed countries' standards.

2. LITERATURE REVIEW

Literature screening construction health and safety broadly falls into 4 categories.

- Construction health and safety knowledge.
- Construction health and safety compliance.
- Construction health and safety rule and regulation.
- Construction health and safety management system

2.1 Construction health and safety knowledge

Satish Kumar and V.K. Bansal outline Construction industry is the second biggest industry of the country when agriculture. The men within the Indian construction industry includes of fifty fifth percent unskilled labour, twenty seventh percent skilled labour, and rest are technical and employees. Regarding sixteen percent of the nation's working population depends on constructional works for its livelihood. Construction within the developing countries like India is a lot of effortful than that of the developed countries, involving two decimals five to ten times a lot of workers per activity. The labour within the construction industry is most vulnerable as a result of employment is generally temporary in nature. Employer-employee relationship is incredibly weak and most of the time passing job security, health and welfare facilities connected with uncertain work environment due to the lack of inherent risks to life and limb. Generally, workers are unskilled that migrate in teams with or while not their families, throughout the country in search of employment. Communication drawbacks among these workers owing to variations in their language, religion, and culture reduce safety on the work places.

2.2 Construction health and safety compliance.

Workplace health and safety risks and deals with all aspects of occupational health is a strong target first time. Occupational health and safety in the construction industry in India's performance is exceptionally poor. Occupational health and safety standards in developing countries is even worse. OHS in the Indian construction industry has never

been the most important significance. Through the construction industry in India is booming enough, there's one thing to start the new start / OHS regulations and rules in place by the government in an attempt to use reasonable efforts are not. There are more than two, but not a lot of makes an attempt to begin something new taken by the Government of India, however they're still in their initial stages and need to be enforced.

The employers are disquieted regarding the completion of project rather than focusing on improving OHS of their workers. The industry has larger rank of tiny and medium size firms and extremely few numbers of larger firms. Tiny firms lack helpful things/valuable provides to adapt correct OHS procedures. The workers don't appear to be given with correct training and information regarding occupational health and safety dangers/risks. Lack of knowing regarding one thing on OHS, sub-contracting system, use of ancient strategies in construction, lack of proper personal protecting equipment, low wages and labour-driven industries are number of the vital factors that have their hit/effect on occupational health and safety in Indian construction. The results are conducted by survey questionnaire form and a telephone interview.

2.3 Construction health and safety rule and regulation

Karan Singh defines construction health and safety in India is still in its early years because health and safety laws are not strictly enforced. Contractors from the beginning of any job ignore basic safety rules and regulations, however, improvement in working conditions and specific rules for the government Minimum Wages Act, Contract Labour (Regulation & Abolition) Act, 1970, and the Workmen's Compensation Act of 1923 (amended in 1962), has implemented such laws only a small amount of the scope and procedures are put into practice. National Building Code of India, 2005 for a building construction that provides guidelines for controlling the activities; As well as across the country, such as project managers, engineers and engineers in charge of the site for buildings and civil works construction safety practices handbooks SP70- BIS (BIS) of the Code. However, worker safety in the construction industry often builders, contractors, and engineers most are pushed to the bottom of the priority list, while many are unaware of any general practices and regulations.

In developing countries, safety regulations generally do not exist, even if it is present, the regulatory authorities are unable to implement the rules effectively. Therefore, the construction professional in their work and to create a solid end to a desired standard setting is dependent on the security rules. It certainly accidents that directly or indirectly reduce project costs and ultimately can reduce the delay. Efforts in India and health awareness among workers and employers about the importance of security-related issues should be to raise the level.

2.4 construction health and safety management system

Long time ago, health and safety management systems are using paper notepads and slide rules, and after some time 'Construction Management Software' in the industry made its debut early in the first use of the safety management system were from. Depending on the time of the safety rules, they were "one size fits all." construction companies were working due to the law checked by the Government inspectors.

Fast forward to a time when managers began using calculators. The next generation of security management systems, there was a fundamental change. Instead of protecting the government's prescription, companies to assess their own health and safety requirements had to. They showed that they were taking all reasonable steps and respect their employees (subcontractors, suppliers, customers, members of the public) to keep others safe during weekdays SMS had to set up some types. Those calculators started morphing into the PC, many construction companies throughout for at least three reasons for an effective safety management system was:

- Moral obligation
- Regulations
- Cost-effectiveness

An SMS is a method rather than a product. The implementation of an SMS may be paper-based or software-based, for instance, the implementation must be documented and auditable, meaning that a safety inspector (among others) can check it. Three Safety Management Systems for Constructions are as follows:

- [1] HS(G)
- [2] ILO-OSH
- [3] OSHA

HS(G) known as Guidelines from the British Health and Safety Executive, ILO-OSH known as The International Labor Office "Guidelines on Occupational Safety and Health Management systems", and OSHA known as The US Occupational Safety and Health Administration guidelines. In India, International Labour Organization (ILO) and the Occupational Safety and Health (OSH) has been working. Large construction industry provides separate safety measures while small construction industry doesn't provide safety measures as its under local contractor.

3. FURTHER WORK

The literature review has shown that there are very little data available on the Building construction worker's health and safety knowledge and compliance on sites in India.

approximately all survey based on health and safety knowledge. surveys should be undertaken to confirm a baseline for the level of health and safety knowledge and compliance on construction site. These surveys would aim to give the following information:

- examine the building construction worker deep knowledge about own health and safety on site;
- examine the health and safety plan and policy and how much compliance on construction site;
- examine the level of safety training / awareness that exists in country;
- examine the construction worker safety attitude and behaviors on construction site;
- examine the level of safety management system.

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