

ABSTRACT

The building construction is one of the riskiest workplaces to its dynamic nature of construction activities. There are more chances for happening any incidents at high-rise construction site due to different factors. Thus this study aims to identify the major causes of the hazards and risks of high-rise construction sites. To control the risk, recommended some proposed solutions for the betterment of safety-related in the high-rise construction industry and ensuring a safe and conducive working condition. To implement the effective hazards controlling approaches due to the change of the working environment at the construction sites.

The process to examine the safety environment in high-rise construction projects, a specific assessment method is to be considered. The methodology is taken from the past research papers that consist of the data collection process and statistical analysis. The data collection carried out through site surveys using structured questionnaire sample forms regarding hazards in high-rise construction. Then applied statistical analysis on collected data and analyzed each and every factor of hazard that shows the results in the form of graphical representation.

As the assessment of critical factors that affect the safety most in high-rise construction, the results shows the overall safety environment in high-rise construction sites. The study conducted on 32 high-rise construction sites and the founded results show that the most common hazards for high-rise construction projects around the study area associated with the protective equipment, fire, emergency, working at high elevation and safety nets, etc.