

Descriptive Assessment of Health and Safety Regulations and Its Current Situation in the Construction Industry of Pakistan

Authors : Khawaja A. Wahaj Wani, Aykut Erkal

Abstract : Pakistan's construction industry, a key player in economic development, has experienced remarkable growth. However, the surge in activities has been accompanied by dangerous working conditions, attributed to legislative gaps and flaws. Unhealthy construction practices, uncertain site conditions, and hazardous environments contribute to a concerning rate of injuries and fatalities. The principal aim of this research study is to undertake a thorough evaluation based on the assessment of the current situation of Health & Safety policies and the surveys performed by stakeholders of Pakistan with the aim of providing solution-centric methodologies for the enforcement of health and safety regulations within construction companies operating on project sites. Recognizing the pivotal role that the construction industry plays in bolstering a nation's economy, it is imperative to address the pressing need for heightened awareness among site engineers and laborers. The study adopts a robust approach, utilizing questionnaire surveys and interviews. As an exclusive investigative study, it encompasses all stakeholders: clients, consultants, contractors, and subcontractors. Targeting PEC-registered companies. Safety performance was assessed through the examination of sixty safety procedures using SPSS-18. A high Cronbach's alpha value of 0.958 ensures data reliability, and non-parametric tests were employed due to the non-normal distribution of data. The safety performance evaluation revealed significant insights. "Using Hoists and Cranes" and "Precautionary Measures (Shoring and Excavation)" exhibited commendable safety levels. Conversely, "Trainings on Safety" displayed a lower safety performance, alongside areas such as "Safety in Contract Documentation," "Meetings for Safety," and "Worker Participation," indicating room for improvement. These findings provide stakeholders with a detailed understanding of current safety measures within Pakistan's construction industry.

Keywords : construction industry, health and safety regulations, Pakistan, risk management

Conference Title : ICCPPMDRM 2024 : International Conference on Construction Phases, Process Management, Dispute Resolution and Management

Conference Location : Paris, France

Conference Dates : February 19-20, 2024