



# Determination of Causes of Change Orders and their Consequences for Public Sector Building Construction Projects of Pakistan

Engr. Talha Abro, Dr. Nafees Ahmed Memon, Engr. Ali Raza Khoso, Aftab Hameed Memon  
Department of Civil Engineering, Mehran UET, Jamshoro, Pakistan  
Corresponding Email: abrotalha95@gmail.com

**Abstract—** Pakistan's Construction Industry is emerging rapidly and it is Contributing huge share in its economic growth. In 2018, the GDP of Pakistan from its construction industry has reached at its all-time high of 343183 Million PKR from 320769 Million PKR in 2017. To assure continuous growth, there is a need to eliminate the hindrances and difficulties faced by the construction industry. One of those hindrances is the occurrence of Change/Variation Order, which is a usual phenomenon in almost all construction projects. The change order is described as the modification in the actual scope of work. And this modification in the scope of the project may cause severe complications in the construction activities. Hence, the target of the study is to determine the causes of change/variation orders and their consequences on Public Sector Building Projects in Pakistan. For that purpose, 38 cause factors of change orders and 15 of their effects were identified through the literature review. These cause and effect factors were presented in front of senior professionals and their interviews were conducted. From the result of these interviews, we determined the significant causes of change orders and their consequences for the Public Sector Building construction projects of Pakistan.

**Keywords —** Change orders, Effects, Pakistan, Construction Industry