

THE IMPACT OF CEMENT INDUSTRY ON THE CONSTRUCTION PROCESS IN THE UNITED ARAB EMIRATES FROM 2010 TO 2022 USING DUB DOCLÁS FUNCTION

Asst. Prof. HUSSEIN ALI AHMED

University of Basra / College of Administration and Economics / Department of Economics
hussain.ahmed @uobasrah. Edu .iq

Abstract: The construction process has gained valuable importance in the UAE after 2010. Cement has been the backbone of construction from skyscrapers in Dubai to infrastructure projects (roads, residential buildings, and airports). The key variables in the construction process are the cost of cement, having an impact on the project budgets, and the supply and demand fluctuations, because of variability in cement supply due to increase or decrease production issues. Moreover, technological advancement influences the cement production technology on the efficiency of the construction. For this purpose, the Dub Doclas method was used to quantitatively and qualitatively analyze the results of the study. A questionnaire was developed and validated to determine the impact of the cement industry on the construction process. The result of the study suggests that all the key variables that are included in the study significantly affect the construction process showing a positive relation.

Introduction:

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The cement industry in the UAE has always been an important part of the country's construction sector (Senaratne and Ruwanpura, 2016). After the global financial crisis of 2008, which significantly impacted the UAE's development, the country renewed its growth after 2010, particularly in Abu Dhabi and Dubai. This growth was fueled by preparations for events such as Expo 2020 and projects related to massive infrastructure developments (Bahman et al., 2023). Moreover, the establishment of new cement plants, modernization of existing traditional plants, and