

# Measuring Supply Chain Stability Indicators in the Cement Industry Using the QFD-FMCDM Technique

arash jafarzadeh andabili\*,

**Abstract** Industry and, in particular, the production and operations sector, both directly and indirectly, have been affected by the expansion of industrial production and development due to global growth and the social and environmental consequences of sustainable development. The purpose of this research is to measure the supply chain reliability indices in the cement industry using the QFD-FMCDM technique. In terms of methodology, the research methodology in all quantitative issues in terms of epistemology and ontology of positivism type, , the viewpoint of an analytic-methodological approach, in terms of analytical-methodological methodology, the viewpoint of the field-study method, the point of view of the survey-case-study, and in terms of the nature of the research, the description and explanation of the relationships between the variables in The template is a model. Data gathering method In this field research and data gathering tool, a researcher-made questionnaire based on the special pairwise comparisons of wastewater technology and network analysis process, a statistical society consisting of experts in the cement industry and a sample of 15 experts (Managing Director, Deputy Directors and Production and Research and Development Directors) Loshan cement, Caspian cement and Khazar cement factories. According to experts in the field of cement, while prioritizing the three main indicators in terms of policy, economics and laws and regulations, but sub-sub-indexes, the first priority was given to the safety of laws and regulations, which are subordinate to the rules and regulations Should be. In the next priorities, two sub-indicators were the main index of policy making, which are in the top priority of the first. Also, future potential rivals, which are subordinate to policy making, are in the top priority of the experts. Economic performance is also at the top of the tenth.

**Keywords :** Keywords: Supply Chain Stability, Supply Chain Stability Indicators,

## Cement Industry

[Islamic Azad University, Rasht Branch - Thesis Database](#)  
[دانشگاه آزاد اسلامی، واحد رشت - سامانه بانک اطلاعات پایان نامه ها](#)