

عنوان مقاله:

Evaluating of effective factors on green supply chain management using statistical methods and SWARA approach

محل انتشار:

فصلنامه بین المللی تحقیقات در مهندسی صنایع, دوره 11, شماره 2 (سال: 1401)

تعداد صفحات اصل مقاله: 23

نویسندگان:

.Abbas Nasiri - Department of Management, Zanjan Branch, Isamic Azad University, Zanjan, Iran

.Ali Mansory - Department of Management, University of Zanjan, Zanjan, Iran

.Nabiollah Mohammadi - Department of Management, Zanjan Branch, Isamic Azad University, Zanjan, Iran

خلاصه مقاله:

Major purpose of this research is identification and evaluating of effective factors on implementation of Green Supply Chain Management (GSCM) at Fanavaran Petrochemical Company by using statistical methods of Kolmogorov-Smirnov, mean and decision making method by topic SWARA (Stepwise Weight Assessment Ratio Analysis). Research methodology of present research base on purpose is practical and based on data gathering method is descriptive-measurement. In order to extracting the effective factors on GSCM at the company, in first, by literature review, ۲۲ factors were identified. Then data were gathered by using of opinions of population members containing ۵۵ persons of experts and senior managers in the first class of company. Finally, after analyzing the questionnaires and statistical tests above, ۱۱ factors were confirmed and selected. In continues, in order to evaluating the final factors and ranking them base on importance in success implementation of GSCM system, the SWARA technique is used. Final outcome of this technique showed that second factor as "Designing products to reduce energy and material consumption, reuse and recycling of materials, prevent the use of hazardous materials in the production process" by most weight is extracted as the most important factor. Such, the factors of "Materials and compliance with the standards required for the purchase of raw materials" and "Procurement, distribution and reverse logistics" placed in next ranks base on importance. The factor of "total environmental quality management" by least weight is identified as last factor in implementation of GSCM at the company. In the end of research, it is proposed that organizations focus .on environmental problem to acquire skill green environment advantage through green supply chain activities

کلمات کلیدی:

performance, GSCM, Kolmogorov-Smirnov Test, Mean test, SWARA Technique

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1513984>

