

Analyzing A Factory's Relocation Through Cost Analysis Techniques.

Dr. Sobhi Mejjaouli

Assistant Professor of Industrial Engineering
Faculty of Engineering
Al Faisal University
Riyadh, Saudi Arabia
smejjaouli@alfaisal.edu

Badr Abutaleb

Student of Industrial Engineering
College of Engineering
Al Faisal University
Riyadh, Saudi Arabia
babutaleb@alfaisal.edu

Ahmed Al Munajem

Student of Industrial Engineering
College of Engineering
Riyadh, Saudi Arabia
aalmunajem@alfaisal.edu

Abstract

This paper views the feasibility of an expansion plan of a croissant manufacturing. The factory currently runs a traditional operation, focusing much on manual means of manufacturing. Furthermore, it wishes to relocate its operation to a newer facility, which will grant an increase in production capacity and a higher level of automation. This project is to be financed through a 50,000,000 SAR debt. Over the course of our research, we seek to analyze the feasibility of the expansion given the increased productivity, as well as the overall feasibility of our project.

Keywords

Cost analysis, Sensitivity analysis, Cashflow.

Biography

Badr Abutaleb is currently a student of Industrial Engineering at Al Faisal University, Riyadh

Ahmed Al Munajem is currently a student of Industrial Engineering at Al Faisal University, Riyadh.

Dr. Sobhi Mejjaouli is currently an Assistant Professor in the Industrial Engineering Department at Al Faisal University, Riyadh. Dr. Mejjaouli had a Bachelor and a master's degree in industrial engineering from the National School of Engineers of Tunis in Tunisia before working for Johnson Controls as a Manufacturing Quality Engineer. After that, he joined University of Arkansas at Little Rock, USA, where he got his PhD in Systems Engineering while teaching and conducting research. Dr. Mejjaouli's work was published in venues such as Journal of Manufacturing Systems, well-known IEEE and ISERC conference proceedings, as well as in book chapter format in the Springer Book Series: Studies in Computational Intelligence. His major research areas are Supply Chain Engineering and Management, Manufacturing, Transportation Systems, and Applications of RFID and Sensor Networks.

