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**IDENTIFYING AND RANKING OF AFFECTIVE FACTOR ON EFFICACY OF  
PREVENTING MAINTENANCE AND REPAIR SYSTEM  
CASE STUDY: SEMNAN MUNICIPAL WATER COMPANY**

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**ABSTRACT**

*The aim of the article is recognizing and ranking of effective factors on efficacy of preventing maintenance and repair system on improving performance of accounting system in water and wastewater (ABFA) of Semnan. Damages will have so negative consequences for a company and they mainly include costs such as job opportunities missed, extra work of operational personnel, costs resulting from delay, distribution and on time delivery of products and services, lack of commitment, costs related to energy, repairs, equipment and defective machineries. Wide developments which everyday occurs in all the companies and organizations made preventing net be known as an effective strategy for economic and social development of countries. So recognizing total factors which set the stage for efficacy of preventing net on improving performance of accounting system of a company is in priority. After studying research profile and with the help of professor and experts in maintenance and repair field, 7 main and effective indices were identified in the company. With the help of Dematel method, the most influential and most effected indices were recognized in efficacy of company maintenance and repair system. The results indicated that factor "D", keeping devices and equipment prepared as the most important factor, and also factor "A", reducing company costs was identified as the least important factor between efficacy factors of preventing maintenance and repair system on improving performance of accounting system of ABFA Company in Semnan.*

**KEYWORDS:** Preventing maintenance and repair, Dematel technique, ABFA Company of Semnan, Accounting system.