

Abstract

Supplier selection is increasingly seen as a strategic issue for any firm. In the literature, a variety of supplier selection criteria and methodologies have been reported. However, in this article, to find the most dependable supplier for an Indian Heavy Locomotive firm, some of the selection criteria like quality, delivery, price and service are employed. Subsequently, an integrated model is proposed for objective assessment of suppliers through integrating three methods namely Taguchi loss function, AHP, and TOPSIS. Finally, two cases of the above stated firm along with sensitivity analysis are performed to demonstrate the credibility of the model.