In this paper we have developed a two echelon supply chain production inventory model for deteriorating products having stock dependent demand under inflationary environment. This model is developed for finite time horizon. The shortages are allowed and partially backlogged. To make this study close to reality the production rate is assumed to be a function of demand rate. A numerical example and sensitivity analysis with respect to different associated parameter is also presented to illustrate the study.

References


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Index Terms

Computer Science

Information Sciences

Keywords

Deterioration, Inflation, Inventory, Stock dependent demand, Demand dependent production, Shortages, Partial backlogging