



INNOVATIVE SUPPLY CHAIN MANAGEMENT IN SUGAR INDUSTRIES

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ABSTRACT

The present paper discusses the Supply Chain Management as a tool for improving the total quality management in process industries (Sugar Plant). Sugar plant is a complex and repairable engineering unit, which comprises of various systems namely feeding, crushing, steam generation, crystallization and refining etc. Supply chain management is a central and important area of academic research due to its impact on process industries competing in today's global economy. In today's competitive environment, it is extremely difficult to successfully produce high quality, low cost products without considering a satisfactory set of suppliers. Suppliers form the first link in the supply chain of any organization. Suppliers selection is a multi criteria problem, which includes both qualitative and quantitative factors, Intelligent supply chain results in reduction of inventory, production and distribution costs, when production of sugar is high, consumption of sugar in domestic market is increasing, and their potential for industries are to perform well. This paper represents the ways to achieve Total Quality Management using Supply Chain Management principles in process industries.

Keywords- Supply Chain Management; Total Quality Management.

1) INTRODUCTION

The development in industrial automation and resulting complexity of systems involved, have made the reliability of machines and other equipment, even more important. This is especially true in the process industries, which is characterized by the expansive specialized equipment and stringent environmental considerations. The sugar industry is a very large engineering unit having continuous sugar production for 24 hours in a day during crushing season. To meet the current challenges, it has become for sugar plant to introduce the Supply Chain Management for improving Total Quality Management. Supply Chain Management is network of facilities and activities that perform the functions of product development and procurement of material from vendors, the movement of materials between facilities, the

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