A case study on quality control charts in a manufacturing industry

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This research has been done with a one of consumer goods manufacturing company in southern province in Sri Lanka. They mainly focus on manufacturing spices, from that chilli has become the main product. In the chilli production process there is a reasonable wastage according to their past experience. Because of that reasonable number of packets was rejected due to the insufficient weight. Therefore, they mainly concern about the process stability of the packing section. In this study mainly concern about waste minimization of chilli section by controlling the variability of the weight of chilli flakes packets, in a certain chilli packets producing machine using Quality control charts. The factors considered in this study are cups variation, chilli level and weight of chilli flakes packets changed with the time. This study provides empirical evidence on the significant level of weight of a chilli packets, descriptive analysis about weight of a chilli packets, the stability of the process. The relationship between process stability and the chilli level is described in this study and found the optimum chilli level from two considered chilli levels so that least waste occurs.

Keywords: Quality Control Charts, wastage, Quality Control Charts, Process Stability

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