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STATISTICAL PROCESS CONTROL IN AN INDUSTRY

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STATISTICAL PROCESS CONTROL IN AN INDUSTRY

By

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To my parents for
tolerating me
for as long as they have

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The main objectives of this project was to study in detail the theory on quality control, to investigate the quality control procedures and methods in a dairy industry and to suggest methods of improvement of the existing status. Also to carry out sampling measurements in order to test the effectiveness of the suggested techniques, by using various charts and measure the process capability of the process by variable data. Finally to carry out an economic comparison between the existing and the proposed quality control procedures and techniques. The whole content of the project is divided into 9 chapters.

SPC was implemented with the aim to assist in minimising variability by controlling the processes and consequently to achieve continuous product quality improvement.
It was introduced at the laboratory of the company and in the production as well.

Suggestions for improvement of the areas where the SPC was installed were included. The recommended improvements were expanded for the whole system of the industry.